

Training Needs Assessment Guide

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Training Needs Assessment Guide "Crosswalk" Manual Part I



Agency for
International Development

Office of
International Training
Washington D.C. 20523

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**TRAINING NEEDS ASSESSMENT GUIDE
(TNAG)**

Agency for International Development

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**AGENCY FOR
INTERNATIONAL DEVELOPMENT**

**OFFICE OF INTERNATIONAL TRAINING
WASHINGTON, D.C. 20523**

The Training Needs Assessment Guide was prepared by
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under PASSA Agreement No. DHR--000-P-DL-6052-00
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Office of International Training
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Office of Foreign Relations
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EXECUTIVE SUMMARY

Goal: The goal of The Training Needs Assessment Guide (TNAG) is to help improve the overall relevance of A.I.D. training programs in support of U.S.A.I.D. projects, sector and country needs, and private sector development.

Objective: The objective of the TNAG is to provide guidelines to U.S.A.I.D. project development staff, contractors, and other persons who may be developing project concept papers, project documents, and training plans.

When Should the Guide be Used: The Guide can be used during project development up to, and including, selection of specific candidates for training. This Guide does not deal with selection of training institutions or programs.

Approach: The Guide uses a diagnostic approach. It presents a series of Checklists that include comprehensive listings of issues that should be considered in planning A.I.D. training programs. These Checklists have been developed after a thorough review of related documents and studies completed by both individuals and institutions involved in implementing training programs for developing countries. In addition, detailed discussions have been held with central and regional A.I.D. staff. An Advisory Group, composed of A.I.D. Washington Regional and Science and Technology Training personnel, reviewed the Guide three times prior to completion.

Content: The Guide is organized around the two primary types of training needs assessments conducted by U.S.A.I.D. Mission staff or contractors: (1) Project-Related Training, and (2) Sector/General Labor Force Assessment. Checklists were developed for these two areas and contain the following elements:

Section I

Project-Related Training Needs Assessment

- A) Checklist to Diagnose Project Participant Training Needs
- B) Checklist to Determine Availability of Staff for Training
- C) Checklist to Determine Selection of Specific Candidates

Section II

Sector Labor Force Needs Assessment

- A. Checklist to Identify Demand/Supply Information
- B. Checklist to Analyze Demand/Supply Information.

It should be emphasized that the previous Checklists are comprehensive since the Guide is intended to be used by different people in a variety of settings. Some information will not be available in certain countries, nor is all of it necessarily required for each application. What is identified, available, and relevant to the application should be used. The Guide is not intended to train individuals to develop information that is not available.

Section III

Alternative Strategies to Participant Training. The Guide provides a listing of possible alternatives for training, should initial plans not be feasible once detailed analyses have been completed.

The Appendices include Short Forms of the Checklists listed above, along with detailed back-up materials for the Checklists. A suggested scope of work for Mission use in contracting a Training Needs Assessment is located in Appendix R.

A copy of the Dictionary of Occupational Titles (DOT), Standard Occupational Classification Manual (SOC), Classification of Instructional Programs (CIP) and "Crosswalk" Tables also form a part of the overall package of materials for use with the TNAG. A WANG Diskette is included with the Guide so that a Mission can customize the checklists for the local environment providing they have the necessary word processing capability.

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SUMMARY OF ACRONYMS USED IN THIS GUIDE

A.I.D.	Agency for International Development
CDSS	Country Development Strategy Statement
GMAT	Graduate Management Aptitude Test
GRE	Graduate Record Examination
ILO	International Labor Organization
ISCO	International Standard Classification of Occupations
CIP	Classification of Instructional Programs
DOT	Dictionary of Occupational Titles
HB 10	Agency for International Development Participant Training Handbook #10
HRDO	Human Resource Development Officer
LE	Labor Exchange
OISH	Occupational Information System Handbook
PIO/P	Project Implementation Order/Participants
PPTN	Project Participant Training Needs
PTP	Participant Training Program
SOC	U.S. Standard Occupational Classification
TNAG	Training Needs Assessment Guide
TIP	Training Implementation Program
TOEFL	Test of English as a Foreign Language
USAID	United States Agency for International Development

INTRODUCTION

Goal. The goal of The Training Needs Assessment Guide (TNAG) is to help improve the overall relevance of A.I.D. Participant Training Program (PTP) to project, sector, and country needs.

Content. The Guide presents logical steps that can strengthen linkages between the long-term development and individual PTP plans through improved project and sector work-force planning, individual participant selection and training. The Guide utilizes both project and sector assessment methodologies to identify Participant Training needs. The Guide can be used as a resource in a variety of ways including: helping host country agencies determine their long- and short-term manpower needs, briefing planning teams, providing information for developing contractor's Statements of Work, and by A.I.D. program and training staff in planning and implementing Participant Training.

Background. By providing academic or technical training in the U.S. to citizens of developing nations, Participant Training has been a major and integral part of U.S. foreign assistance since the inauguration of the Marshall Plan in 1949. Since then, more than 240,000 foreign nationals have been sponsored for training with an average of 8,000 Participants annually in recent years. It is considered to be a major contributor to international development. There were over 17,000 Participants in the U.S. during fiscal year 1987, both for academic and technical training. The Agency has set a goal of increasing Participant Training to 20,000 by fiscal year 1990.

Many former Participants have achieved positions of leadership in their home countries and offer numerous testimonials to the importance and value of their training experience. However, in a number of instances, Participant Training has not contributed nearly as much to one of its main goals, that of supporting A.I.D.'s long-term country development activities. Ideally, Participant Training should function as an integral part of the Host Country's development plans by responding to specifically identified training needs.

Process. To function effectively, the training program must involve the A.I.D. Mission, the Host Country Agency sponsoring Participants, the U.S. or third country training or educational institution, as well as the Participants themselves. The commitment, flexibility and sensitivity of all partners is necessary if the objectives of the training program are to be met.

Scope. This Guide identifies considerations to be used in the development of plans for: Project-Related as well as General Training.

HOW TO USE THIS GUIDE

This Guide can be used to assess Participant Training needs through two types of analyses: (1) project related, and (2) sector labor force analyses. It is strongly recommended that training be provided to staff before they begin actually collecting information from the various sources identified in the Guide. Appendix M, contains a suggested training session for users of the Guide. (This is a self contained Appendix that can be removed from the Guide.) It contains: a suggested agenda for the training session, summaries of different parts of the Guide, copies of the short-form checklists to assess the need for project analysis and sector labor force analysis and sample working problems (Appendices A,B, & N). This suggested training program takes the user through the following steps (see next page for graphic illustration of this process):

First: Reading/understanding the introduction and contents of the sections of the Guide he/she is interested in, namely, the check lists for project related or sector labor force analysis.

Second: Becoming familiar with the Appendices relating to each of these major sections, including the short form check lists in Appendix A and B that summarize the information found in the two major sections of the Guide.

Third: Using the check lists as a basis for identifying information that can be used to assess the need for Project Related and/or General Training in the country. The user may wish to customize these checklists to the country in question. This can be done using the WANG diskette (Appendix Q) included with the Guide. The information placed on these checklists could become part of the working file relating to the project in question.

Fourth: Summarizing his/her analysis of the information obtained using the checklists. These summaries can be in narrative form and/or tabular form. Both formats are discussed in the body of the guide, and are illustrated in the Case Study, Narratives and The Tables Found in the Appendices.

The steps suggested in the checklists are not necessarily sequential. It may be necessary to reorder the steps or do two steps concurrently. In addition, reference is made to documents not included with the package of materials supplied. These references are identified in Appendix P. These materials are not required to use this Guide if the reader is familiar with basic A.I.D. participant training procedures and manpower planning techniques. If the user requires more technical background/assistance, or wishes to conduct a more thorough analysis of the Labor Force, it is suggested that some of the reference materials be acquired (Appendices D, E, and F).

HOW TO USE THIS GUIDE

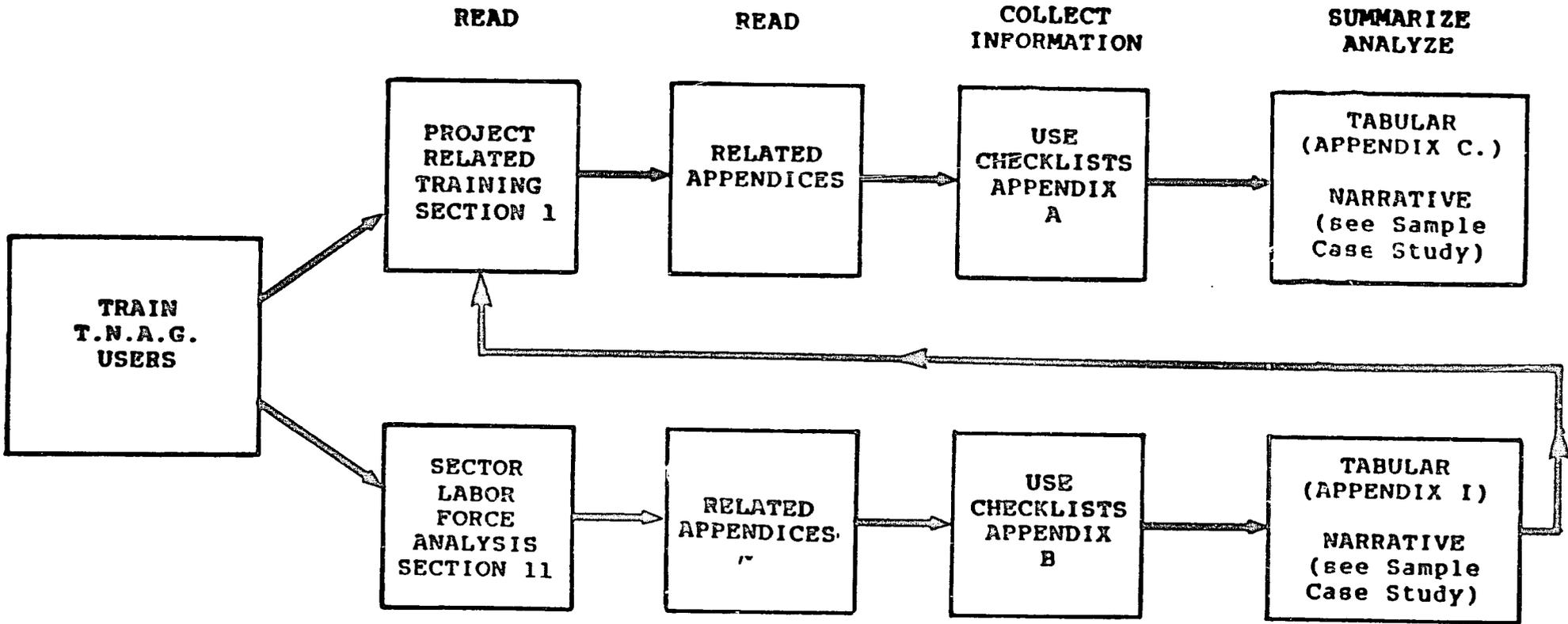


FIGURE 01

Figure 2

SUGGESTED WAYS OF RELATING
THE USAID TRAINING NEEDS ASSESSMENT PROCESS
TO TNAG CONTENTS

IF YOU ARE HERE IN
THE USAID PROCESS

YOU MAY WANT TO START USING THIS
PART OF THE TNAG

-
- | | |
|---|---|
| 1. <u>CDSS Development</u> | <u>SECTION II-SECTOR LABOR FORCE ASSESSMENT</u>
A. Checklist to Identify Macro Supply/Demand Information
B. Checklist to Analyze Occupational Supply/Demand Information |
| 2. <u>Project Development</u>
Concept Paper | <u>SECTION II-SECTOR LABOR FORCE ASSESSMENT</u>
A. Checklist to Identify Macro Supply/Demand Information
B. Checklist to Analyze Occupational Supply/Demand Information |
| Project Identification Document (PID) | <u>SECTION I-PROJECT RELATED TRAINING ASSESSMENT</u>
A. Checklist for Diagnosing Project Participant Training Needs |
| Project Paper (PP) | B. Checklist for Determining Availability of Staff for Training |
| 3. <u>Project Implementation</u>
(PIO/P and PTP) | C. Checklist for Selection of Specific Individuals |
| 4. <u>Participant Programming</u> | <u>SECTION III- ALTERNATIVE APPROACHES</u>
(not covered in TNAG) |

SECTION 1 PROJECT RELATED TRAINING NEEDS ASSESSMENT

The objective of this section of the Training Needs Assessment Guide (TNAG) is to assist project planning personnel in identifying the need and availability of those specific occupations (e.g., Engineers, Accountants, etc.) which are necessary to the implementation of a given development project.

The Country Development Strategy Statement (CDSS) presents goals and strategies for addressing each program sector the Mission has chosen to emphasize in the coming years. In the CDSS, specific projects are identified that meet the country's development priorities. Many of A.I.D.'s projects include training components. Training needs should be isolated in each project paper. Two factors which influence the type of Participant Training necessary are:

- The development of realistic and achievable objectives.
- The determination that qualified nationals are available to implement project objectives, or can be upgraded through training.

The first step is to identify, as clearly as possible, the human resources that are needed for each project. The second step is to identify the availability of individuals who are qualified to be trained to fill projected staff positions (see following Figure #3).

The Case Study on the following pages highlight a number of critical factors which should be considered in the project planning process.

PROJECT RELATED TRAINING
NEEDS ASSESSMENT PROCESS

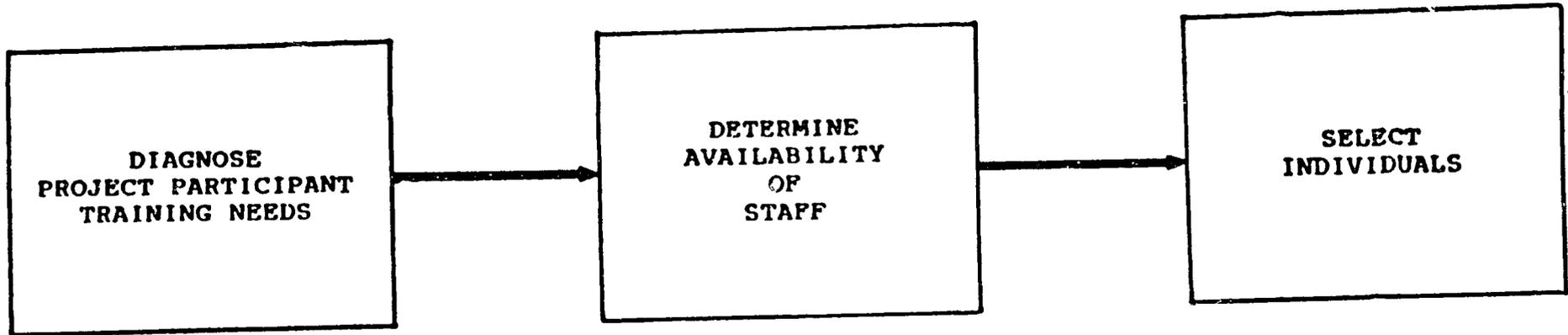


Figure #3

Case Study, Project Related Training

Overview: Country X's Five-Year Plan (issued in 1982) placed high priority on developing a network of agricultural feeder roads to facilitate transporting surplus agricultural products to several urban centers. After much discussion, The Ministry of Rural Development, The Ministry of Transportation and the A.I.D. Mission agreed to develop a Rural Roads Construction Project. The A.I.D. Project Officer and his counterparts in the two Ministries determined that 200 Civil Engineers would be needed to work on the roads project. A joint decision was made by The Ministry of Transportation and A.I.D., based on an analysis of the project needs, that civil engineers would have the greatest impact on the program.

Officials in the Ministry of Transportation, placed two advertisements in the National Newspaper to determine if there were sufficient numbers of qualified candidates to fill the critical vacancies. The following criteria were used: all applicants had to hold civil engineering certificates, have a minimum of three years of field experience (preferably in roads construction), be willing to relocate to a rural area and be willing to sign a three-year contract. In addition, all applicants had to be citizens of the country. Sixty four engineers responded to the advertisement, which ran concurrently for one month. Upon an initial review of the applicants, only 20% met the stated qualifications, the majority either did not hold certificates or have the required field experience. From the remaining twelve applicants, eight were not willing to relocate outside the capital city, and the remaining were not citizens of the country.

The Ministry decided to open up applications to people with formal engineering background who would receive necessary training to qualify for the required positions. An application process was carefully prepared listing in addition to three years technical training the following criteria: English reading, writing and oral competency, and prior supervisory experience. In addition, all applicants had to have fulfilled their one year military training obligation, sign a contract stating that they would work for the government for a five-year period after receiving training, and be willing to relocate to provincial villages. The government also required that all applicants be unmarried and be citizens of the country.

The Ministry received 3000 applications from all over the country. From this large pool, 250 qualified individuals were finally selected for interviews. Of this number, 200 candidates were selected for Participant Training. In 1982, after a comprehensive pre-departure orientation program they were sent to the United

States for training in Roads Construction Management and General Civil Engineering. By 1984, 162 of the original 200 Engineers successfully completed their undergraduate level training and began working on the Rural Roads Construction Project. Funds had been made available from the World Bank to complete the first five-year phase of the program.

Within six months, it became apparent that the project needed technical support personnel, such as land surveyors, heavy equipment operators and maintenance mechanics. This time, a survey was conducted to identify specific project staffing needs and to identify additional sources of supply from within the country. The results of the survey revealed that, to complete the critical first phase of the road network within the given time frame, the project would need to hire 300 technicians. The survey also highlighted the fact that the technicians could be adequately supervised by no more than 15 to 20 qualified civil engineers. Finally, the survey found that the major university had implemented a civil engineering degree program in 1983.

Discussion. As illustrated in the above example, initial planning to provide highly trained personnel, with adequate supplies and equipment was poorly conceived. Upon further analysis, it was found that the country potentially could graduate sufficient numbers of engineers from a program which was started at about the same time that the project was planned. Assessing future training needs is an extremely complicated process since so many variables exist at every point in the planning and execution stages. The practice of forecasting future training needs from program documents such as country Five-Year Plans, Country Strategy Statements etc., is very difficult and may be severely hampered by incorrect assumptions. This broader planning process is treated in detail in Section II of this Guide. Project-related needs assessments for training should, however, determine the need for key personnel critical to the success of a project and the qualifications and proficiencies needed by such personnel to carry out the tasks of each required function. Training programs should therefore focus on developing the proficiencies of selected personnel from each of the identified occupational categories.

Note: The following checklists should be used to make sure that all essential elements have been considered.

- A. Checklist for Diagnosing Project Participant Training Needs (page 9).
- B. Checklist for Determining Availability of Staff for Training (page 12).
- C. Checklist for Selection of Specific Individuals (page 16).

A. Checklist for Diagnosing Project Participant Training Needs

The objective of this checklist is to determine the participant training needs of a particular project and produce a narrative and/or graphic summary of this information (see the case study on the prior pages and Appendix C for a graphic summary).

It is critical that specific tasks and related occupational categories are identified to support each project objective. Once A.I.D. and the sponsoring organization have agreed on which categories of staff are to be developed, U.S. training programs and institutions can be identified. Appendix D provides more detail on this process. Objectives, skills, occupational categories, and related training programs can be listed on the Project Participant Training Needs Forms (PPTN - see Appendix C). The purpose of this form is to determine the estimated number and priority of participant trainees, by occupation and training program, that will be required for each project.

1. Project Objectives: Do the specific objectives identified for the project reflect the sectoral objectives as identified in the Country Development Strategy Statement (CDSS)?
(List these on the PPTN Form - Appendix C.) _____

2. Project Tasks: Have the specific job related tasks necessary to complete project objectives been identified? (List these on the PPTN form under each Objective.) _____

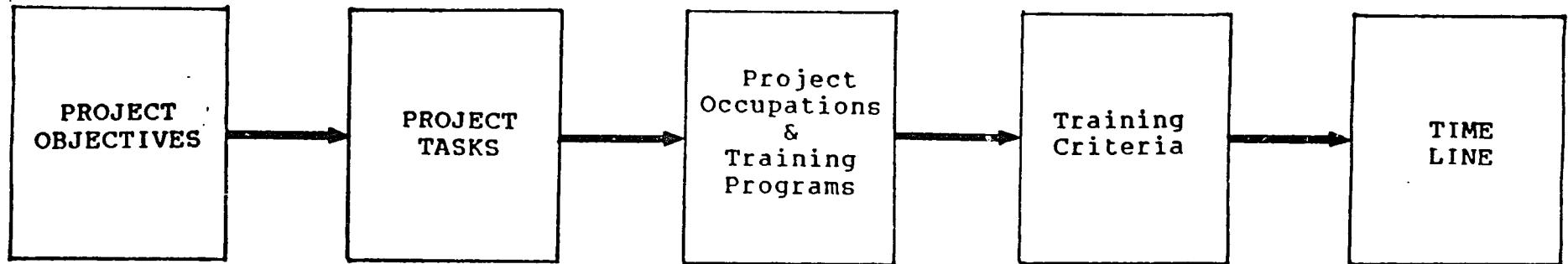
3. Project Occupations and Training Programs:
 - a. Identification of Occupations: Have specific occupations been identified to support project objective/skill requirements.
level practical? Have they been related to standard national job descriptions and/or occupational classifications?
If no national system is available one of the standard occupational classification systems may be used (Appendix D + E).
List them on the PPTN form. _____

 - b. Identification of Training Programs:
Have specific training programs been identified that directly relate to identified skills/occupations. Are these at the lowest level practical? Have they been related to standard U.S. training program definitions to facilitate identification of U.S. training institutions (See Appendix D + F)? Identify them on the PPTN form. _____

- c. Numbers Determined: Have the number of participants that will be needed for each occupation/training program been determined? Put this information on the PTTN form. _____
- d. Priority: Has the relative priority of each occupation, in relation to the project objectives, been identified? Put this on the PTTN form. _____
- e. Training Time: Has the approximate length of training in person months been established for each occupational training program? (See Appendix D and "Crosswalk" Tables, part 1 & 2.) List these items at the bottom of the PTTN form. _____

- 4. Training Criteria: Has USAID reviewed the identified training areas and communicated to all the parties the criteria necessary for U.S Participant Training Projects? (HB 10) _____
- 5. Time Line: Has a time-line been developed to determine if the required training can be completed within the project implementation schedule? If required training cannot be completed for some occupations have alternatives been investigated? (See Section III of TNAG.) _____
- 6. Manpower Planning: Have all Project Officers within a given sector coordinated their human resource needs with each other? _____

DIAGNOSE PROJECT PARTICIPANT TRAINING



B. Checklist for Determining Availability of Staff for Training

The objective of this checklist is to provide a summary of the need for and availability of candidates for each of the occupations needed for a particular project.

This checklist outlines a process for assessing availability, type, and number of candidates who can be trained in a timely manner to support A.I.D. project requirements. It is important to take time to analyze the working environment from which the participants will be selected. This step is essential since by this stage in the process a number of assumptions have been made which must be tested. They include, but are not limited to:

- Needs analysis conducted during the early stages of the training program have identified all participant training needs.
- There is an understanding of current and future manpower development needs by all parties concerned.
- The work organization from which the participant will be selected has not only thoroughly analyzed its training needs.
- The organization has conveyed these to individuals who may be selected for training.
- All parties involved recognize that once individuals are trained, they need the opportunity to apply the skills learned.

In all, these assumptions form a tenuous linkage between the Participant, the work organization, the host country counterpart agency, the primary contractor's project staff, and the A.I.D. Mission Project Officer or project staff. For the most part, they are unproven assumptions and should be tested either through formal meetings with all parties or through individual follow-up meetings conducted by A.I.D.'s primary contractor's training advisor or by the Training Officer.

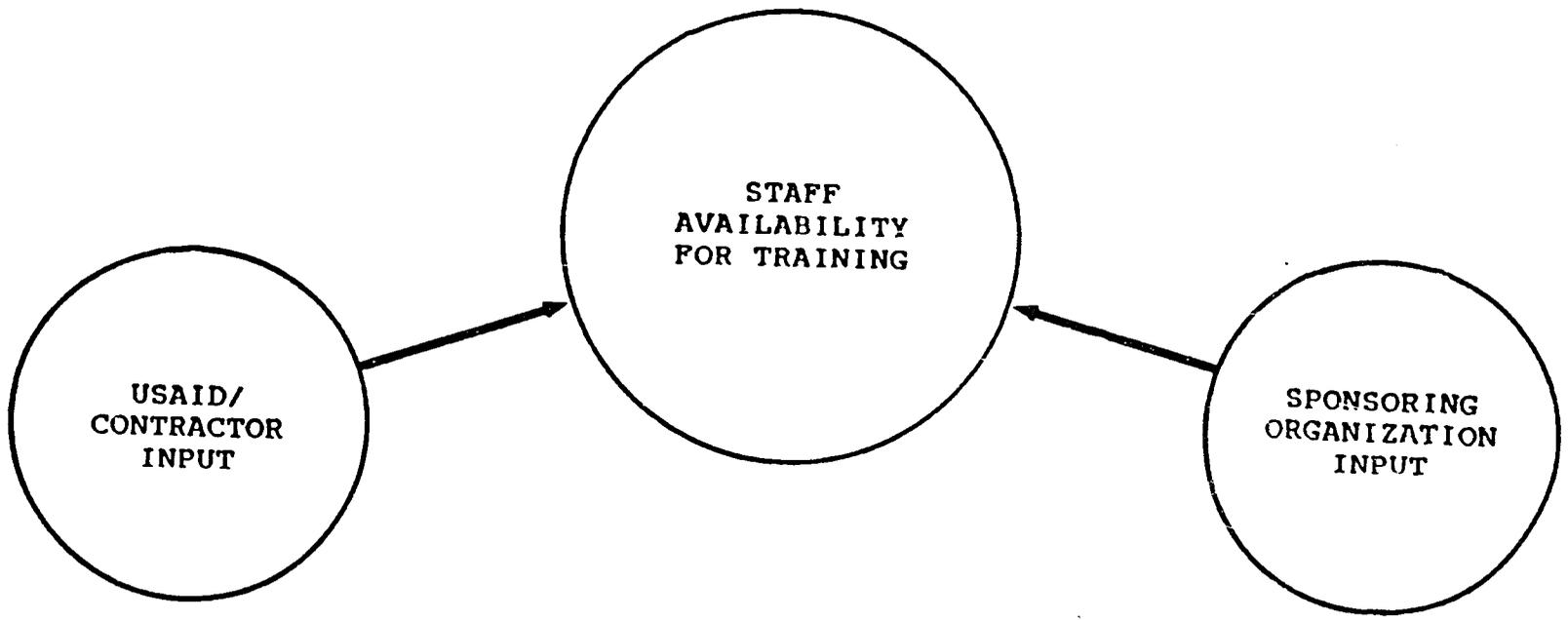


Figure #5

Has the Sponsoring Organization:

1. Accepted the Need for Change: Have they determined appropriate training goals and objectives, and how new knowledge and skills will be implemented in the organization? (HB 10) _____
2. Targeted a List of Appropriate Trainees: Have they studied exactly who is involved, determined numbers of participants from appropriate levels within the organization, determined if they can be released, when training should occur, where training should occur, in relation to the projects perceived needs? (HB 10) _____
3. Assisted in the Collection and Analysis: Have they developed appropriate data on how and what type of training will most benefit the development goals of the organization? (HB 10) _____
4. Jointly Developed: Have appropriate training plans specifying the expected outcomes been developed in concert with A.I.D. officials? (HB 10) _____
5. Authorized Absences to Attend Training: Will the sponsoring agency release the critical individuals for the training, is there a plan to fill behind individuals attending training? (HB 10) _____
6. Re-entry: Is there a plan for re-entry once training is completed, does this plan allow the participant to utilize skills acquired during training? _____
7. Salary Costs: Will the salary of participants be continued while they are in training? If so, can the agency afford the numbers of trainees envisioned by the project? _____

Have USAID/Contractors:

1. Specified which Tasks/Activities: Are the tasks required to complete the project clearly identified? (HB 10, and Appendix C + N.) _____
2. Number of Trained Personnel Required: Determined the numbers of trained personnel required for the specific project needs, from the Country Development Strategy Statement, sector analyses, training plans? _____

3. Type and Duration of Training: Has the sponsoring Agency been advised as to the type and duration of training required? (HB 10)
 - a. Level: Has the lowest level of training been identified that will meet project objectives? _____
 - b. Institutional Training Costs: Are institutions being considered the most cost efficient given A.I.D.'s current policies on costs? _____
 - c. Length of Training Programs: Are A.I.D. personnel/contractors promoting all levels/lengths of training (one, two, four-year) programs? _____
4. Funding: Is A.I.D. funding available to support level of participant training required (was budget one of the criteria used in developing the training plan)? _____

USAID and The Sponsoring Organization:

1. Cost and Contributions: Can the sponsoring organization afford to pay for international airfare of the required number of trainees? _____
2. Number of Qualified Participants: Are there sufficient qualified participants who can be released for training and who can complete a course of study in time to return and work on a specific project (does not apply to general training projects)? (HB 10) _____
3. Selection Criteria: Has selection criteria been jointly developed which will produce the best candidates? Will this criteria provide A.I.D. personnel with defensible rationale for refusing candidates proposed by the sponsoring agency? (See Section II TNAG.) _____
4. Time: Has the amount of time required for obtaining visas, exit permits, passports, medical clearance/shot and institutional enrollment lead times been factored into the projected training program duration? (HB 10) _____
5. Developed Alternate Training Plans: If there are insufficient qualified participants, time, or if training desired is not available, have alternatives been considered? (See Section III TNAG.) _____

C. Checklist for Selection of Specific Individuals

The objective of this checklist is to evaluate the probability of success of a particular individual in a selected training category.

The invitation to participate in an A.I.D. training program can create many anxieties and end in failure unless some very basic criteria are met. Two of the major areas of criticism have been that candidates do not have the required English competency and/or academic background to participate at the level required by educational institutions. Difficulty with these basic requirements result not only in poor academic achievement, but also generally inhibit the participant from developing professional and social relationships during training. Tied closely with language competency is the participant's ability to make the necessary cultural adaptation to academic life in the U.S. Since the usual support networks are no longer available, the Participant must learn how to develop new ones and work to remove barriers to success.

It is important to work out detailed training plans which define overall goals of the program as well as specific subjects/course requirements etc., in order that both the expectations of the Participant and those of the identified project are met. For example, how will the program prepare the Participant for the career he/she wishes to follow? Is the chosen field of study critical to the development needs of the organization and or the country? Orientation programs prior to departure from their home country can provide an excellent opportunity for learning skills in adjusting to academic life in the assigned country, especially if recently returned Participants are invited as resource guests. Books on cross cultural adaptation for foreign students studying in the U.S. are also excellent resources. Additional materials from the Fulbright Program in-country (if available), discussions with Peace Corps Volunteers, USIS personnel etc., should be included whenever practical.

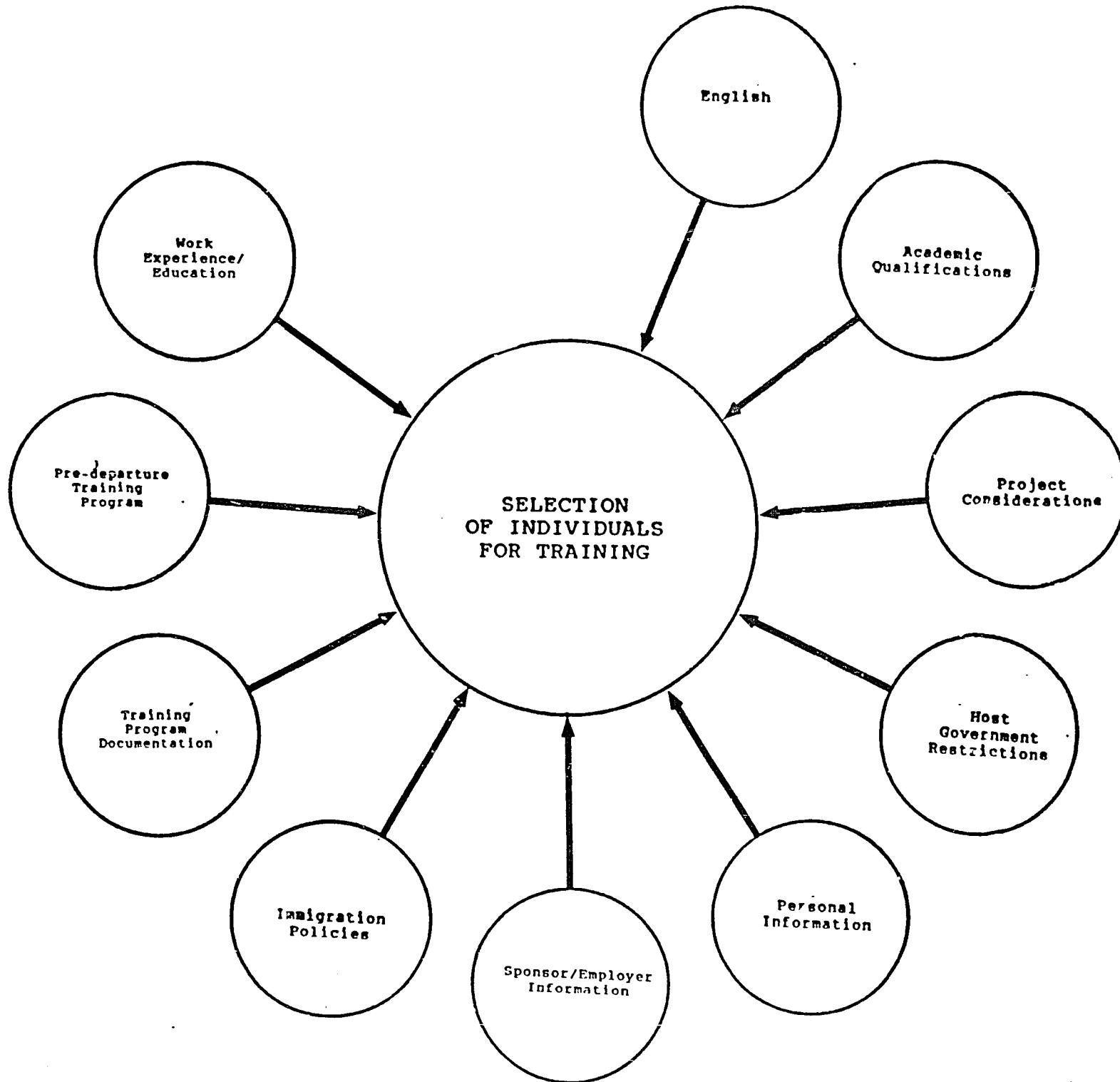


Figure #6

1. English Language Competency:

a. Minimum AID Competency: Does the candidate meet A.I.D.'s minimum English Language (EL) call forward scores? (HB 10) _____

b. Minimum Institution Competency: Does the candidate meet the training institution's minimum EL competency? _____

c. AID/Institution English Competency Differences:

Will the addition of EL training in the U.S. to meet institutional requirements cause problems with project timetable? _____

d. Insufficient English Competency: If English competency is below the required standard, is candidate competent in another language which would qualify him/her for training in a third country? (HB 10) _____

e. Language Training: If there are a large number of Participants to be trained, can an intensive language training program be organized in the host country or third country? (HB 10) _____

2. Academic Credentials: Does candidate meet the entrance criteria or selection criteria established by the training institute? (HB 10) _____

a. Skill Building: Are there programs available in-country that provide the necessary skill building to allow the candidate to qualify for entrance into the desired training institution? _____

b. Alternative Training: Are there institutions in third countries offering the same type of courses that would accept the candidate? _____

3. Project Considerations: Given the length of training required, will the trainee be available to the project when needed? _____

a. Timing: If not, is it possible to send Participants to training before the project start-up in order to facilitate early return? (For example, use of General Training Project Funds.) _____

- 4. Host Government Restrictions: Does the host government have policies that will limit the availability of participants? _____
 - a. Military Training: Is candidate required to complete military service prior to receiving training? (HB 10) _____
 - b. Other Restrictions: Are there any other conditions that would inhibit the successful completion of training? (HB 10) _____

- 5. Personal Information : Are there personal or cultural constraints that would negatively influence participation in the proposed training? _____
 - a. Personal/Professional Skills: Does candidate have the skills (i.e., leadership and motivational) to use knowledge gained through training? (HB 10) _____
 - b. Dependents: Does the candidate agree to training and economic conditions imposed by A.I.D. regarding dependents coming to the U.S. (HB 10) _____

- 6. Sponsor/Employer/Information: Does the Sponsor/Employer agree on:
 - a. Type and Length of training: Is training suitable for organizational needs? _____
 - b. Importance of Training: Are training/skills to be acquired critical to the needs of the organization? _____
 - c. Candidates Replacement: Have they arranged for a replacement while the proposed candidate receives training? _____
 - d. Candidate Promotion: Do they envision a promotion for the Participant upon completion of training? _____
 - e. Organizational Changes: Do they support the introduction of new techniques in the existing system as a result of requested training, and has a plan been developed for this? _____

- f. Employment: Do they agree to provide jobs for sponsored Participants not currently employed, upon successful completion of training? _____
- 7. Immigration Policies: Does the Participant qualify for a visa in the U.S.? (HB 10) _____
 - a. Health Requirements: Can candidate meet all health requirements for entry into the U.S. or third country? (HB 10 - Chapters 7 & 24) _____
- 8. Training Program Documentation:
 - a. Project Implementation Order/Participants (PIO/P):
 Have individual Project Implementation Order/Participants (PIO/P); including face sheet (page 1), training request (page 2), and biographic data sheet (page 3) been developed? (HB 10) _____
 - b. PIO/P Issuance: Have all tasks relating to the issuance of a PIO/P, four photographs, medical examinations and certification, conditions of training, dependent certification (if applicable), academic records (transcripts, GRE, GMAT etc.), TOEFL examinations, cost estimation of the training program, lead times, etc., been completed? (HB 10) _____
 - c. Training Implementation document (TIP): Has this been prepared by programming agent, received by mission? (HB 10) _____
 - d. Pre-Departure Checklist: Has a pre-departure checklist been completed for each individual? (HB 10) _____
- 9. Predeparture Orientation Program: Has a program been developed that includes:
 - a. Use of Returned Participants: Have returned A.I.D. Participants been involved in the selection and orientation of Participants? (HB 10) _____

- b. Cross Cultural Adaptation: Has information on Cross Cultural adaptation been made available to the candidates? (Materials are especially helpful to candidates who have never traveled outside their country.) (HB 10) _____
- c. Orientation Programs: Has research been conducted of other resources which may be helpful for orientation programs, i.e., USIS publications, information from the Fulbright Fellows program, if active, Peace Corps Volunteers, U.S. private voluntary agencies, etc.? (HB 10) _____
- d. Climate of Training Center: Have candidates been provided specific information on the climate and appropriate clothing needs? (HB 10) _____
- e. Meetings with returned Participants: Have candidates had the opportunity to meet with recently returned Participants? _____
- f. Program Changes: Has the participant been advised that no major changes to the identified course of study are permitted without the approval of the programming agent in the U.S. and clearance by the mission? _____

10. Work Experience/Education

- a. Prior Training: Does the participant hold a position which provides him or her with prior practical experience in the area of selected training or education? _____
- b. Commitment to Goals: Is the participant committed to the goals and objectives established for his/her training? _____
- c. Utilization of Skills: Will the participant return to a position where the new skill/education is needed and can be utilized? _____

Summary of Project Training Need Assessment

The objective of the previous checklists has been to assist USAID to determine:

Participant Training Needs of A.I.D. Projects

Availability of Staff/Participants for Training, and

Selection of Individual Participants

All of the above areas should be addressed as part of the overall Participant Training Program. This will ensure that a Participant Training Program is not (in reality) a "program" which stands alone, but rather a part of a larger strategy to help achieve the stated development goals of the Host Country.

If you have successfully completed the three previous checklists, you should be able to answer "yes" to the following general summary questions.

1. Occupational Categories: Have occupational categories been classified according to availability and attainability? _____

Have attainable occupational categories been separated into current and future needs areas and classified into, general training categories, and project-specific training categories? Has the length of training for each category been estimated? _____
2. Manpower Skill Supply: Has A.I.D. identified project-specific manpower skill supply sources within each sector? Have these been further broken down into immediate (current) and future (long term) project needs? _____

Do manpower skill areas take into consideration Country Development Strategy Statement sector project goals, project objectives, and Host Country manpower needs? _____
3. Project Goals: Have specific project work plans, which identify scheduled targets and goals based on availability of scarce human resource inputs been reviewed? Have project Participant Training programs been identified? _____

4. Sponsoring Agency(ies): Has A.I.D., in coordination with the Host Country agency and other concerned parties (primary contractor, training institute etc.), reviewed identified project Participant training needs. Have specific Participant training programs been linked to specific projects to meet critical scheduled project components? _____
5. Sector Priorities: Have sector priorities, and within each sector, project specific priorities been determined? Have these been clearly defined and matched with and against Host Country agency priorities and project target/goal scheduling? _____
6. Job Criteria: Has A.I.D. and the sponsoring organization established criteria to determine critical job functions for the success of funded projects. Are occupational skills identified as scarce or lacking attainable by a Participant training program? _____
7. Training Objectives: Does an identified training program take into consideration Country Development Strategy Statement sector objectives, the training plan objectives and the objectives of the host agency? _____
8. Scheduling of Training: Has the Host Country agency, the sponsoring organization and the training institution agreed to the scheduling of Participant training to ensure the best timing for the Participants' return to help meet the program's identified objectives? _____

If you have successfully completed the previous checklists, you should be able to complete the Participant Training Needs Assessment Working Problem found in Appendix N.

SECTION II, SECTOR LABOR FORCE NEEDS ASSESSMENT

Objective: This section of the Training Needs Assessment Guide (TNAG) is to define sector labor force manpower demand/supply relationships in order to assist the decision making process relative to implementation of Participant Training Programs. The availability of individuals to participate in USAID Participant Training Programs is influenced by a number of factors, including the overall supply and demand of qualified individuals in the occupations in question. This Section of the TNAG could be used during CDSS development as well as at early stages of identifying need for (1) Project Related Training, and/or (2) General Participant training.

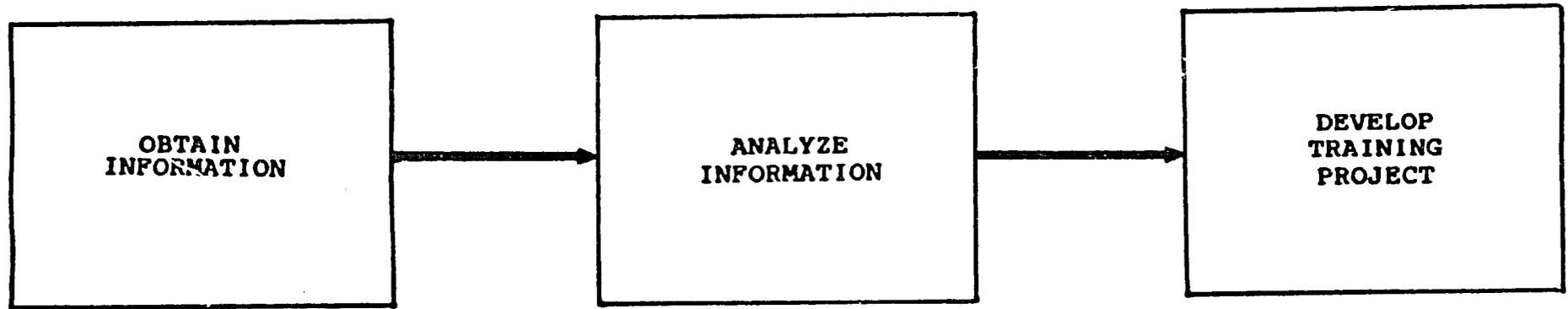
Components: This part of the TNAG has two parts/functions: (1) it can assist A.I.D. officers in identifying macro/broad occupational supply/demand information, and (2) it can assist these individuals in undertaking a statistical "hard data" and a narrative "soft data" analysis of the information. These are referred to as quantitative and qualitative analyses.

End Product of these two steps is the development of a general statement on demand/supply for specific occupations in order to prioritize training needs. This part of the TNAG raises several issues about the dynamics of the supply and demand of labor that may assist USAID staff in identifying alternative sources of supply for Participant Training Programs when normal channels do not appear to provide the supply necessary to support project development.

It is emphasized that Section II of the TNAG is designed to train a person to select and use manpower demand/supply data, not to develop the data if it does not already exist.

Sources of Information: Before the user begins the search for manpower information, it is recommended that other mission staff, in particular Foreign Service National staff, be contacted to determine if they already have information "in-hand", know where it can be found, and are able to give some evaluation of the quality of information available. Ministries that may provide such information include: Labor/Employment, Central Planning, Finance, Education, Commerce/Banking/Export/Import, Agriculture, Central Statistics/Census. Actually, few government organizations will be exempt as potential suppliers of manpower information in that the information is critical to all sectors. Finally, it is suggested that users contact Nationals that have attended U.S. Bureau of Labor Statistics, Census training, and related programs in Colleges and Universities.

SECTOR LABOR FORCE ANALYSIS



Points to Consider in Macro Data Analysis: Several points must be emphasized prior to attempting an analysis of occupational demand/supply relationships in a given country:

1. This manual is designed to assist the user to utilize manpower data and not to develop data. Identification of initial data development is beyond the scope of this manual, and in most cases, the capabilities of the USAID training staff, unless the Project actually provides a component for overall manpower analysis. As such, this TNAG is designed to alert project development staff to the types of information that might be useful in sector manpower planning. The manual is designed to assist project staff in obtaining summaries of this information (assuming it is already collected in the country in question), and integrating it into the TNAG Report. This insures the analysis of general occupational supply-demand trends in occupations that relate to USAID Project needs.
2. Classification of demand/supply data: Data from available sources of information (OISH I:4.1.) are collected and tabulated using various classification systems. Some of these classification systems are for industries, some for occupations, and some for training programs or disciplines. Occupational information may be classified by the U.S. Standard Classification of Occupations (SOC), the International Labor Organization Standard Occupational Classification (ISOC), or other methods. Occupational supply data, from training institutions, will probably not be classified by any standard system. It will probably be reported by program. Appendix E contains summaries of the SOC and ISOC classification system and Appendix F contains a summary of the Classification of Instructional Programs (CIP) used in the United States. Formal "crosswalks" between these systems can be developed and are available from the U.S. Department of Labor. Care must be taken in comparing data using these different classifications. Appendix D gives more information of this process.
3. Measurement problems: An additional set of data issues to be dealt with in the quantitative aspect of demand/supply are those that focus on: (1) does the data represent what it was conceived to measure? (2) does the data cover the spectrum of available supply and demand sources? and, (3) is there possible duplication in coverage among the different data sources?

4. Time Period Issues: Available sources of information covering different time periods are generated with varying frequency. There are frequently time delays between the actual collection and reporting of information and the availability of that information.
5. Geographic area issues: Available sources of information represent different geographic areas in terms of coverage.
6. Demand data reliability: Current employment and projected occupational demand information is usually developed from one of two sources: industrial surveys or household census surveys.
 - a. Industrial Surveys usually provide more reliable employment data than census surveys, however, they may represent only selected sectors, or may miss large sectors of employment because of incomplete registration of private sector firms. Single sector surveys, (e.g., manufacturing), may produce a limited view of employment because most occupations occur in many sectors, (e.g., accountants work in most major industries). In a dynamic employment market, individuals with specific occupational skills move between sectors. Finally, long-term projections of future employment based on employer estimates are highly suspect and should not be used if other alternatives are available, (e.g., projections based on economic/industrial development forecasts).
 - b. Household Census Surveys are often the base of employment projections in developing countries. Data from these sources have two major problems: First, they may be quite old, which can present problems in countries with high population growths. Secondly, occupational employment from such surveys is based on individual/personal household descriptions of occupational skills and activities, which may be highly inaccurate.
7. Supply Data Reliability: Training institution enrollment data should not be compared with employment demand data. Doing this will over inflate actual supply since a particular training program may take four years to complete before graduates are available to enter the labor market. In the same fashion, graduate or completed information should be factored with graduate follow-up trends, if available. Not all completers/graduates of a training program directly enter the labor market, (e.g., some may go on to further training). The most important issue in obtaining supply information is to identify individuals who are truly available, and qualified to enter the labor market at a given time in a given occupation.

Sector Labor Force Analysis, Case Study

Overview: During 1980, Country X, in cooperation with A.I.D., initiated a General Manpower Development Project, to develop a base of University/College trained professional and technical personnel to support general economic development plans. A survey was made by A.I.D., in cooperation with the Ministry of Planning, other government Ministries, and representatives of the private sector, to identify key occupational areas that these individuals/institutions felt would be in short supply in the future. A short-list was established from this survey as a point of departure to initiate a Participant Training Plan and begin recruitment of trainees. The short-list contained the following occupations (among others): civil engineer, electrical engineer, accountant, and teacher. Prior to finalizing the general training plan and initiating recruitment, A.I.D. initiated a general review and analysis of manpower demand/supply information from existing sources in the country. The objective of this analysis was to "cross-check" to try to determine the validity of the short-list generated by in-country contacts.

Certain manpower demand/supply information was available. The Ministry of Labor had been conducting establishment surveys on a biennial basis and operates a Labor Exchange (LE) in the major urban areas. A Census was available, however it was 8 years old. The Ministry of Education kept statistics on enrollment and completion of all training programs, however, it had only undertaken graduate follow-up studies on a sporadic basis on selected programs. Other Ministries had similar training data. Reporting of this data tended to be about 1 year after collection.

Discussion: Information from the Ministry of Labor establishment surveys provided data on current levels of formal sector employment in each of the occupations and gave some indication of historical trends and increases in employment (since the surveys had been repeated several times). Labor exchange information did not appear to have the necessary penetration into the labor market except in urban, vocational/technical occupations. Census data did give an idea of the age of individuals in most occupations. Manpower supply information from training institutions appeared quite complete, due to centralized control, however it was 1-2 years old. A table was prepared to compare available statistical employment/demand information, from establishment surveys, census data, and labor exchange sources. Supply data from training institutions was also included on this table. The following is a summary of the results:

- Civil Engineering: employment 300, average annual historical increase 40 per year, LE data not applicable, average age 28 years, about 50 graduates per year from the National University. There was evidence, from discussions with employers and a university graduate follow-up study, to indicate that some Civil Engineers were working as surveyors and technicians due to an inability to find employment in engineering. As a result of the above information, the Ministry of Planning agreed to delete this occupation from the General Participant Training Plan.
- Electrical Engineering: employment 500, average historical increase 60 per year, LE data not applicable, average age 37 years, about 50 graduates per year from the National University. Discussions with the Ministry of Power and private sector firms indicated difficulties in hiring engineers to assist country-wide electrification programs and industrial development. This occupation was held in the General Training Plan and discussions were initiated to enlarge the electrical engineering faculty in the University.
- Accounting: employment 4000, average annual historical increase 400, average of 50 registered as unemployed at the LE, about 700 graduates per year from public and private training colleges, average age 30. Some 1000 individuals took internal and external CPA certification examinations each year, the pass rate was 70 percent. In discussing the supply of accountants with Government and private sector institutions, there was considerable evidence to indicate that the occupation was oversupplied, wages were low, and many qualified CPA's were working primarily as book-keepers. As a result, this occupation was deleted from the General Participant Training Plan.
- Teachers: employment 6500 with a historical increase of 500 per year (450 in academic fields and 50 in technical/vocational education). LE data not applicable. About 400 academic graduates per year from the Regional Teacher Training Colleges and overseas training programs plus about 25 graduates from a 3-month short course for Technical Teachers. Average age of teachers is 33 years. Discussions with Ministry of Education staff indicated there was a shortage of academic teachers primarily in on Northern Province that does not have a Regional Teacher Training College. There is a national shortage of vocational teachers which appears to be aggravated by two factors: (1) the present training program for these staff is a 3-month add-on teaching methodology course delivered by the Polytechnic to 3-year Technical Program graduates, and (2) the vocational teachers are put on the same salary scale as academic teachers who have only 2 years of post-secondary

teacher training as opposed to the 3 years and 3 months that the vocational teachers have. This results in a high turn-over rate for vocational teachers who are attracted by better salaries in the private sector. As a result of obtaining this information, the following decisions were made by USAID. First, a project concept paper was developed to provide for a new Regional Academic Teacher Training Institute in the one province that did not have one. No participant training program was included since the shortfall of academic teachers is not too large and staff of the new Regional Teacher Training Institute from the College of Education at the National University provides a 4-year training program for teachers. Second, a project concept paper was developed to support development of a full one-year teacher training program at the Polytechnic to replace the existing 3-month short course. This project was defined to include: technical assistance components, participant training to prepare vocational teacher trainers for the new one-year program, and participant training for up to 20 vocational teachers per year to fill current in-country shortfall until the new teacher training program could come "on-line". In addition, as a condition of funding this latter project, USAID gained Government assurances that vocational teachers would receive additional salary compensation that would compensate them for four years of post secondary training as opposed to two years.

Summary: Analysis of basic labor force demand/supply information indicated that a re-evaluation was needed prior to recruitment for trainees in several occupations. It appeared that some training requests were based on traditional, or high prestige careers, or on impressions of need that were not based on fact. In addition, the broad manpower analysis identified a need for several "in-country" labor force development projects as well as a need for more consistent manpower surveys and future projection models. Suggestions for analyzing similar broad occupational demand/supply information follow.

A. Checklist to Identify Macro Occupational Demand/Supply Information

The objective of this checklist is to identify information sources that may provide data to explain the general demand and supply of labor in a specific locality.

Note: The following Checklist represents a comprehensive list of data sources that could be used in a macro demand/supply analyses. It is realized that in some countries many of these sources may not be available. Planners should use those sources they can find and not try to develop data represented by the remainder of the checklist items unless they have sufficient resources and qualified staff to do so.

1. Definition and Sources of current demand (employment) data:

Current occupational demand may be thought of as the stock of jobs in that occupation. This stock of jobs consists of the number of jobs currently filled in a specific occupation (current occupational employment) plus the number of actual jobs that are available for filling and for which an employer is actively trying to find or recruit workers (job vacancies). Simply put the current occupational demand equation is as follows:

Current Demand = Current Occupational Employment + Job Vacancies

The following checklist identifies possible sources of this data (see next page for graphic summary of sources).

a. General Census of Population: This source may provide data on employment and unemployment for detailed occupations by age, sex, industry, class of worker, earnings and a variety of other characteristics. Special tabulations may be available. (Ref. OISH I:2.2.1.A.)

b. General Establishment Surveys: This source can provide employment information by use of periodic surveys of a sample of establishments in the formal wage and salary sector of the economy. These estimates may be used to generate an overall industrial/occupational matrix (See Appendix G for sample). Ref. OISH I:2.1.1 A.

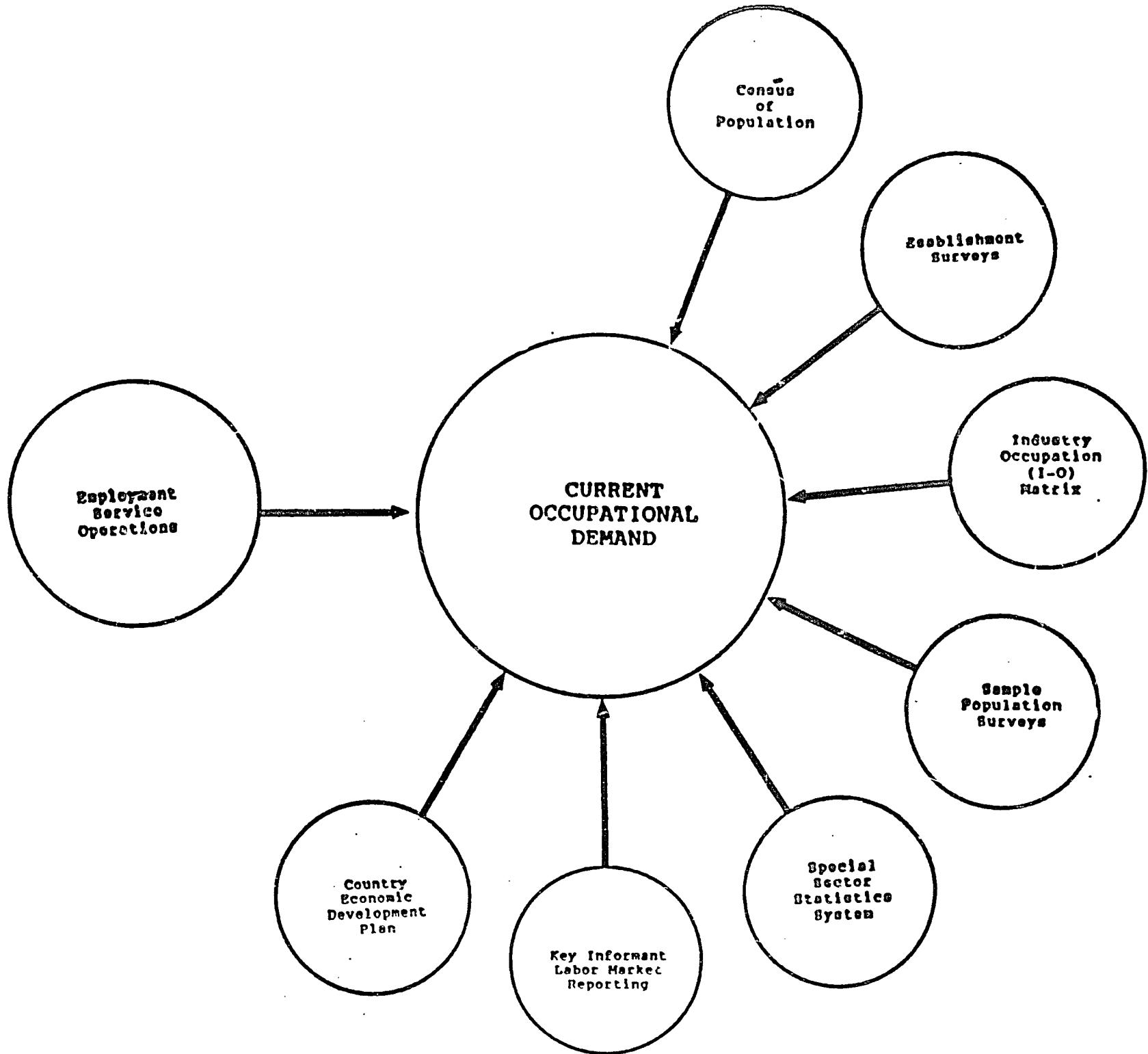


Figure #8

- c. Industry/Occupational (I/O) Matrix: The I/O matrix is a tabulation of data from individual establishment employment surveys. Information can be cross-classified by industry and occupation. The I/O matrix is an important information source for current employment because it integrates sources of employment data to provide a comprehensive summary of occupational employment and can be used in the subsequent development of future occupational projections (See Appendix G). Ref. OISH I:2.2.2.C.

- d. Sample Population Surveys: This source may provide frequently updated data on employment by occupation based on sample household surveys conducted at periodic intervals between major census surveys. Estimates of national employment may be provided for major occupational groups and may be published on a regular schedule. Ref. OISH I:2.1.1.D.

- e. Special Sector Statistics: These sources could include statistics in such sectors as health and agricultural and may include information on the number, type, and location of facilities, manpower, and services. These surveys may have been completed by the Government and/or other organizations such as the World Bank, other bilateral agencies, Foundations, etc.

- f. Key Informant Labor Market Reporting: These surveys use selected people who, by virtue of their occupation, responsibility and interests, possess knowledge of manpower and employment situational trends in and around their place of residence and activity. This technique, developed by the International Labor Organization (ILO), can provide unique information on employment in the informal and rural agricultural sectors which cannot be obtained through the use of standard statistical techniques (See Appendix J for further information collected).

- g. Country Economic Development Plan: The Government may have developed special economic development plans (e.g., Five-year plans) that give indications of current and future manpower development trends due to targeted economic development initiatives.

- h. Employment Service/Labor Exchange: The employment service, or labor exchange as it is known in many countries, may offer extensive information including current job openings and detailed summaries. In using this information, individuals need to be aware that not all employers list jobs with this source. Ref. OISH I:2.1.2.A.
-

2. Definition and Sources of Projected Occupational Demand Data

Projected occupational demand may be thought of as the stock of jobs in a particular occupation at a given future time period. As defined earlier, it equals the:

- 1) current stock of jobs in the occupation, plus (2) the projected increase or decrease in employment (growth demand) for the occupation, and (3) replacement demand resulting in the need to replace workers in an occupation. Simply put the projected occupational demand equation is as follows:

Projected Demand = Current Demand + growth in demand
replacement requirements in occupation.

The following checklist identifies possible sources of this data (see page 36 for a graphic summary of sources).

- a. Industry Employment Projections: These projections are estimates of future employment levels in specific industries (including the private and public sectors) in a given future year. Individual industry projections are used as inputs for the overall Industry/Occupational matrix system that generates data on future occupational requirements (including both growth and replacement components). These projections could be based on employer estimates or on a combination of economic/industrial growth factors. Ref. OISH I:2.2.1.A.
-

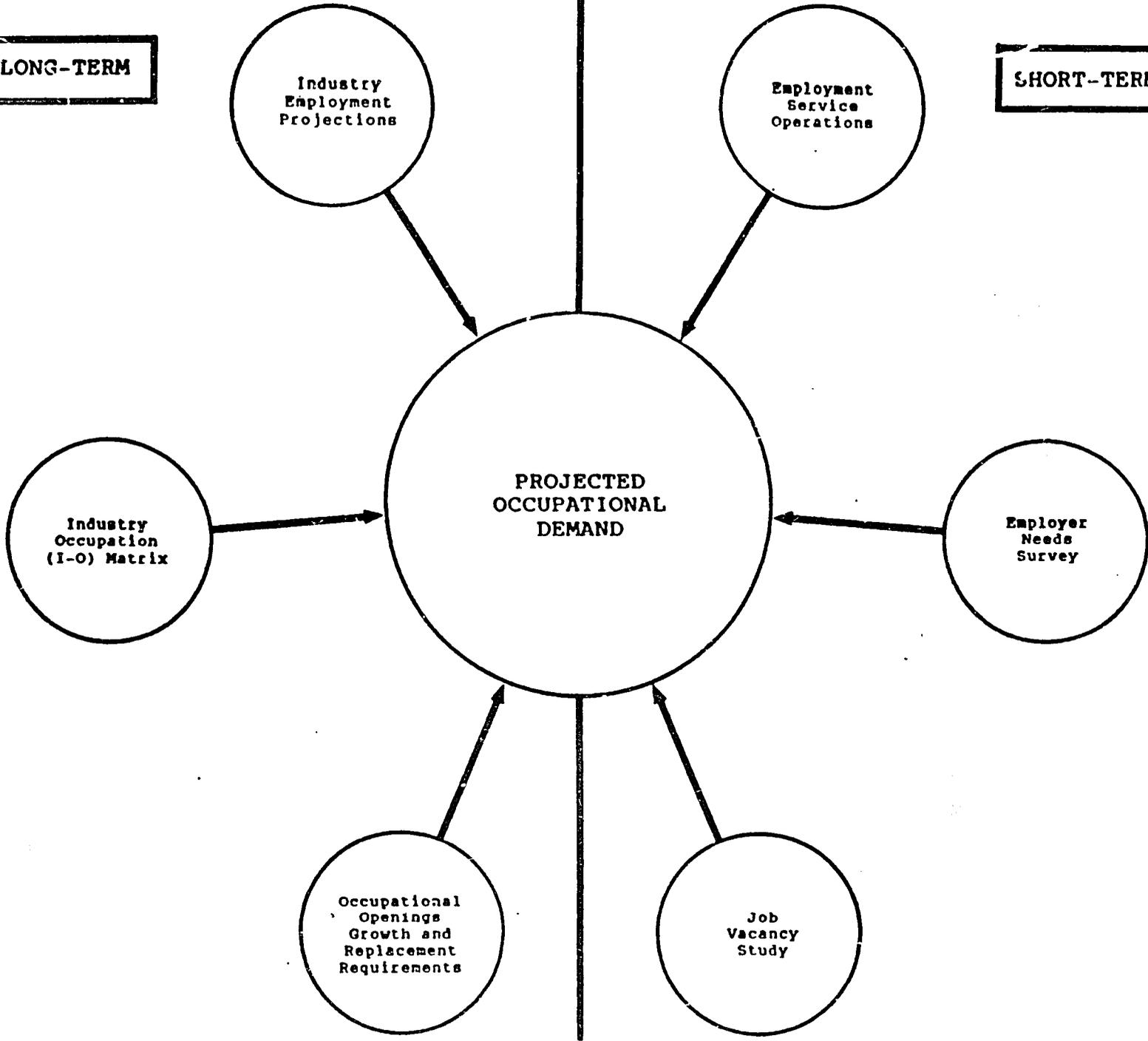
- b. Industrial/Occupational Matrix: The I/O matrix presents occupational employment by industry projected to some future time period. The matrix could be developed from establishment survey data or household census data (See Appendix G). Ref. OISH I:2.2.1.B.
-

c. Occupational Openings and Growth:
Projections of long-term job openings by occupation in a future period are important products of an industrial survey program. These figures can be generated using industry employment estimates (growth), occupational staffing patterns within given industries, and labor force separation (replacement) rates. Ref. OISH I:2.2.1.A.

d. Employment Service/Labor Exchange
Projections: An employment exchange can offer extensive information on job openings while historical data may provide information on short-term future trends. Ref. OISH I:2.2.1.B.

LONG-TERM

SHORT-TERM



- e. Employer Needs Surveys: These studies may provide some indication of short-term occupational demand but are of questionable value for long-term projections. Ref. OISH I:2.2.2.A.

- f. Job Vacancy Studies: Special studies of hard-to fill jobs, emerging occupations, or occupational demand related to recent economic/social/political phenomena, may be available. Ref. OISH I:2.2.2.B.

3. Definition and Sources of Occupational Supply Data

Current occupational supply may be thought of as the stock of workers available for work in a particular occupation. As defined earlier, it equals the total employment in a particular occupation (current occupational employment) plus the unemployed who are qualified for and actively seeking employment in the occupation. There are a number of sources of supply including: current employment (discussed in the previous section), current unemployment by occupation, entrants to supply from education and training institutions, and other sources of supply (see next page diagram depicting this flow). Care must be taken in summarizing supply information to eliminate duplication of counts from different sources. Simply put the current occupational demand equation is as follows:

Current Supply = Current Occupational Employment + Current Unemployment + Entrants from Education and Training + other sources.

The following checklist identifies possible sources of this data (see next page for graphic summary of sources).

Sources of Current Unemployment by Occupation

- a. Unemployment Insurance: A country may have some type of formal insured unemployment scheme in the formal sector which may provide information, by occupation on those individuals receiving this assistance. Re OISH I:3.1.2.A.

- b. Sample Population Surveys: These surveys can be a source of frequently updated information on unemployment by occupation and may capture data on individuals that are outside the formal unemployment compensation system. Ref. OISH I:3.1.2.B.

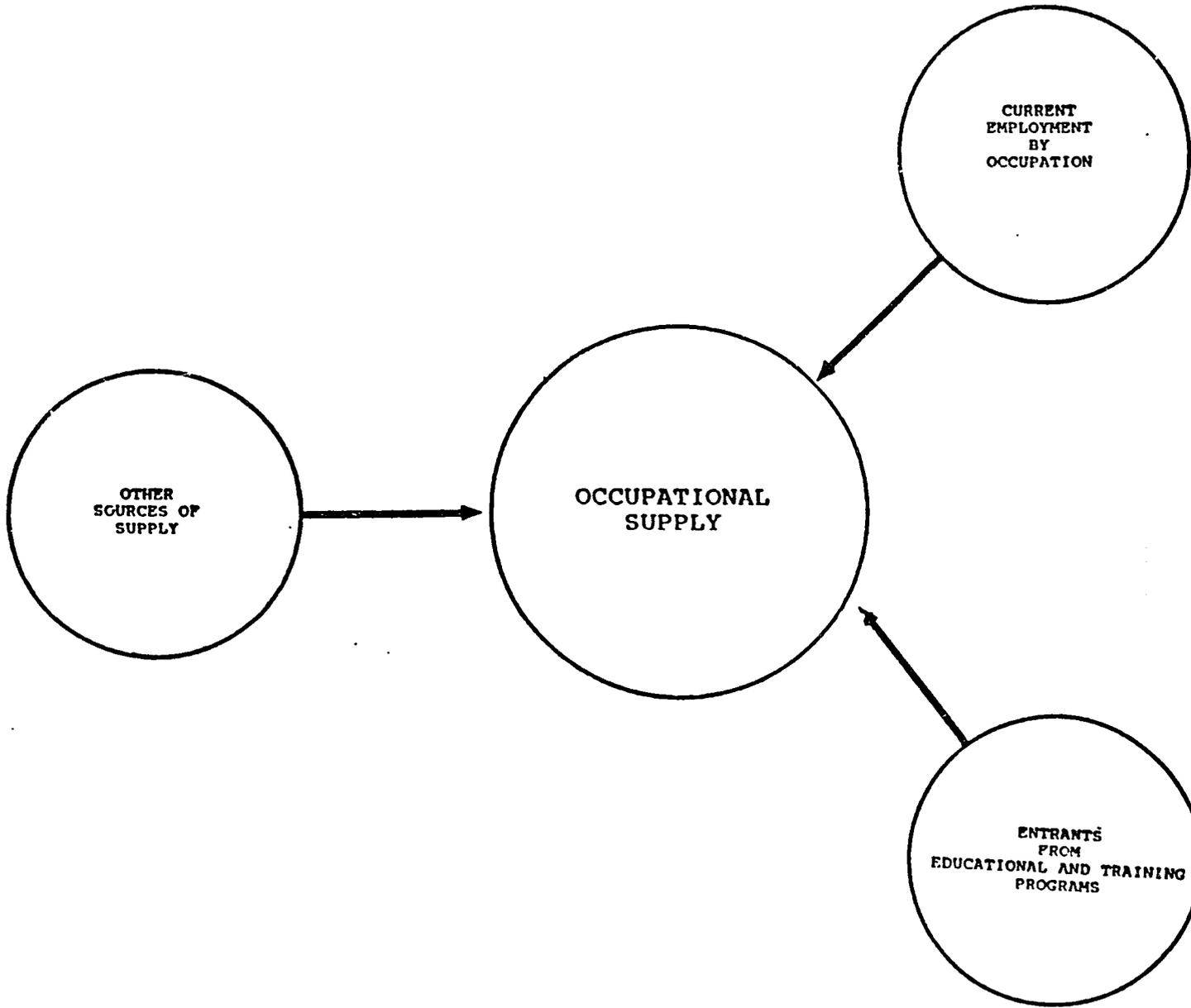


Figure #10

Entrants to Occupational Supply from Education and Training Programs

- a. Completers and Leavers: Data about the enrollees, completers and leavers of education/training programs are a means of measuring one of the entrants to occupational supply. The use of this data as an estimate of available supply requires a familiarity with each data source and adjustments to the data in terms of its occupational impact. Ref. OISH I:3.2.1

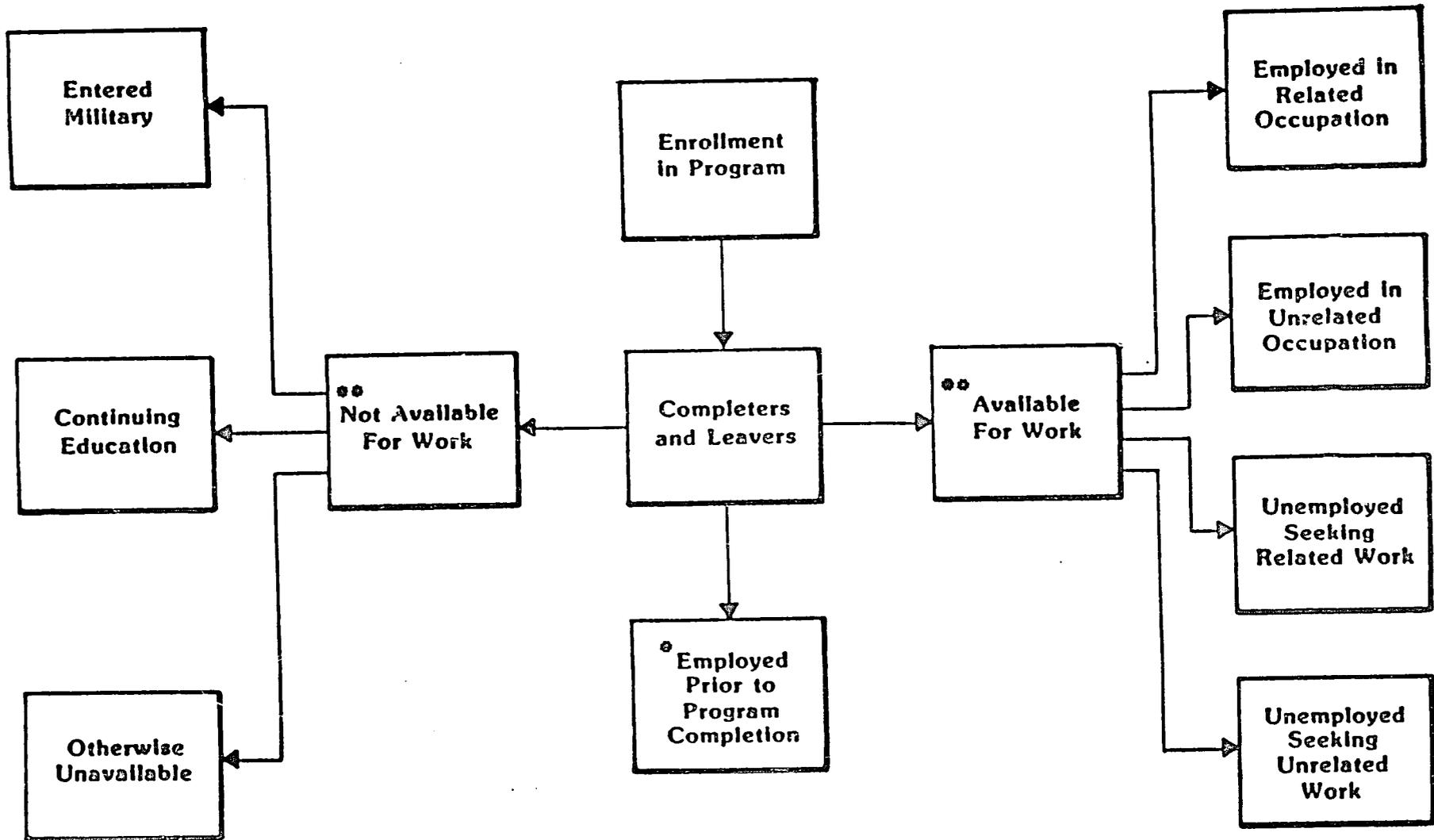
- b. Follow-up Studies: Some institutions may conduct follow-up studies and surveys to determine the employment and educational status of individuals completing or leaving education/training programs and to determine the relationship between employment and the training received. If follow-up data is available on specific training programs, analysts can estimate available occupational supply from enrollment/completion data, see Figure 11 next page. Ref. OISH I:3.2.2.

Other sources of entrants to occupational supply

- a. Institutional Registrants: This component of supply could represent those individuals who are being served by a specific agency or institution in the social services, education, Labor Exchange or, possibly, in an insured unemployment system. These agencies often provide career counseling and job placement services including the Employment Service Labor Exchange. Ref. OISH 3.3.1.A.

- b. Re-entrants to the Labor Market: These individuals include those who are re-entering after a period of time. These could include: homemakers after death of a spouse, mothers returning after child rearing, persons institutionalized in hospitals or prisons, persons returning from other countries, and military service personnel separating from active duty. Ref. OISH 3.3.2.A.

- c. Occupational Transfers: Occupational transfers may be thought of as workers who move or transfer from one occupation to another. This mobility factor is important to both occupational supply and demand. Special studies may have been completed on this by Government Ministries, the Private sector, and Universities.
Ref. OISH I:2.3.1.
-



FOLLOW-UP STUDIES

Figure #11

⊙ Refers to persons who are employed while enrolled in a program and who remain in the same occupation upon completing or leaving that program.

** In specified labor market

- d. Geographic Migration: This can positively or negatively affect occupational supply. Rapidly growing cities or areas of the country may find it crucial to include immigrants in their occupational supply analysis. Calculation of geographic mobility rates is complicated by the fact that geographic and occupational transfers often occur simultaneously. _____
- e. Work Permits/Work Cards: The country, or other organizations such as unions, may maintain a special system of work permits for nationals as well as immigrants. This system may provide a source of data for entrants to the labor force. _____
- f. Projected supply: The previous checklist items primarily deal with current/annual supply, however, if a major increase in supply is anticipated in a selected sector, it is critical that it be identified. This may include new institutional training programs. Projected supply can be calculated by factoring current enrollment figures with enrollment/completion ratios. _____

B. Checklist to Analyze Occupational Demand/Supply Information

The objective of the occupational information analysis process outlined in the following pages is to assist Project Development and Training Officers determine the general availability of selected occupations and to identify training needs. For example, what is the general availability of civil engineers to support country development, in particular the development of transportation infrastructure? This information can be presented in a tabular format and/or narrative format (see Appendix I, for sample of tabular display data, and Case Study TNAG Section II for a sample narrative discussion and analysis of data).

Occupational information analysis is one of the most complex data analysis processes in the field of labor market information. In order to make sense of demand/supply data that has been obtained from one or more of the sources identified in the previous sections, it will be necessary to make judgments and generalizations that may not be acceptable in the United States. This part of the TNAG is predicated on the idea that attention must be paid to available information, and that long-term manpower planning should not move forward based only on "impressions" of the availability of personnel

to fill needed staff positions on either a long-term or short-term basis. Without supportive information, personal impressions may not represent reality and the PTP may duplicate existing training or be impossible to implement because of a lack of qualified individuals that meet basic qualifications specified in the PTP. Two steps of analysis are outlined: (1) statistical or quantitative, and (2) narrative or qualitative.

Statistical/Quantitative. Data collected from quantitative sources mentioned on the previous pages can be presented in a concise tabular form (See Appendix I for a sample). Such a table can be presented as an analysis in itself, or serve as a basis to assist subsequent narrative analyses. The checklists provided on the following pages focus on the techniques associated with interfacing this statistical/quantitative information on demand/supply that is collected and tabulated using different occupational and training classification systems. The result of this tabular presentation of data is a summary of the relationship between: (1) average current employment and future demand projections for occupations, and (2) the supply of manpower including completers and/or individuals available from various related vocational education and employment and training programs and other sources.

Narrative/Qualitative. This type of analysis attempts to accomplish two objectives: (1) it further interprets and explains the results of the quantitative statistical analysis, and (2) it adds qualitative, non-statistical, information to the overall discussion of manpower demand/supply. This latter step is accomplished by analyzing such factors as:

- Specific characteristics of an occupation.
- Entry requirements affecting the occupation.
- Proxy/substitute information for the demand/supply situation.

See introduction to TNAG Section II, for a case study/sample of this type of analysis.

Both types of analysis should be used. This part of the TNAG manual provides a checklist to lead project staff through the process to complete a tabular and narrative analysis of manpower demand/supply information.

1. Statistical/Quantitative Analysis, Issues and Procedures

The objective of this part of the TNAG is to outline methodologies that can be used to select and integrate occupational demand/supply data, relating to project needs, from a variety of programs and data resources. Several levels of products may be developed and the basic contents of each is outlined in Appendix H.

The three products outlined in Appendix H are not necessarily intended to be discrete categories, you may wish to interchange data elements depending on data availability. Based on the nature of available data, the Project Officer can develop a presentation of data related to the occupation required in the project, beginning from the most basic Level 1 to the most complete and complex Level 3 product.

The end product of the statistical integration of data will be a table/chart providing a summary of demand/supply information for the occupations of interest to the project (see Appendix I for a sample format). In the process of developing the table/chart, the user will be confronted by a number of problems. The following checklist presents suggested solutions that will be of use in dealing with specific data integration problems (see graphic summary on the following page).

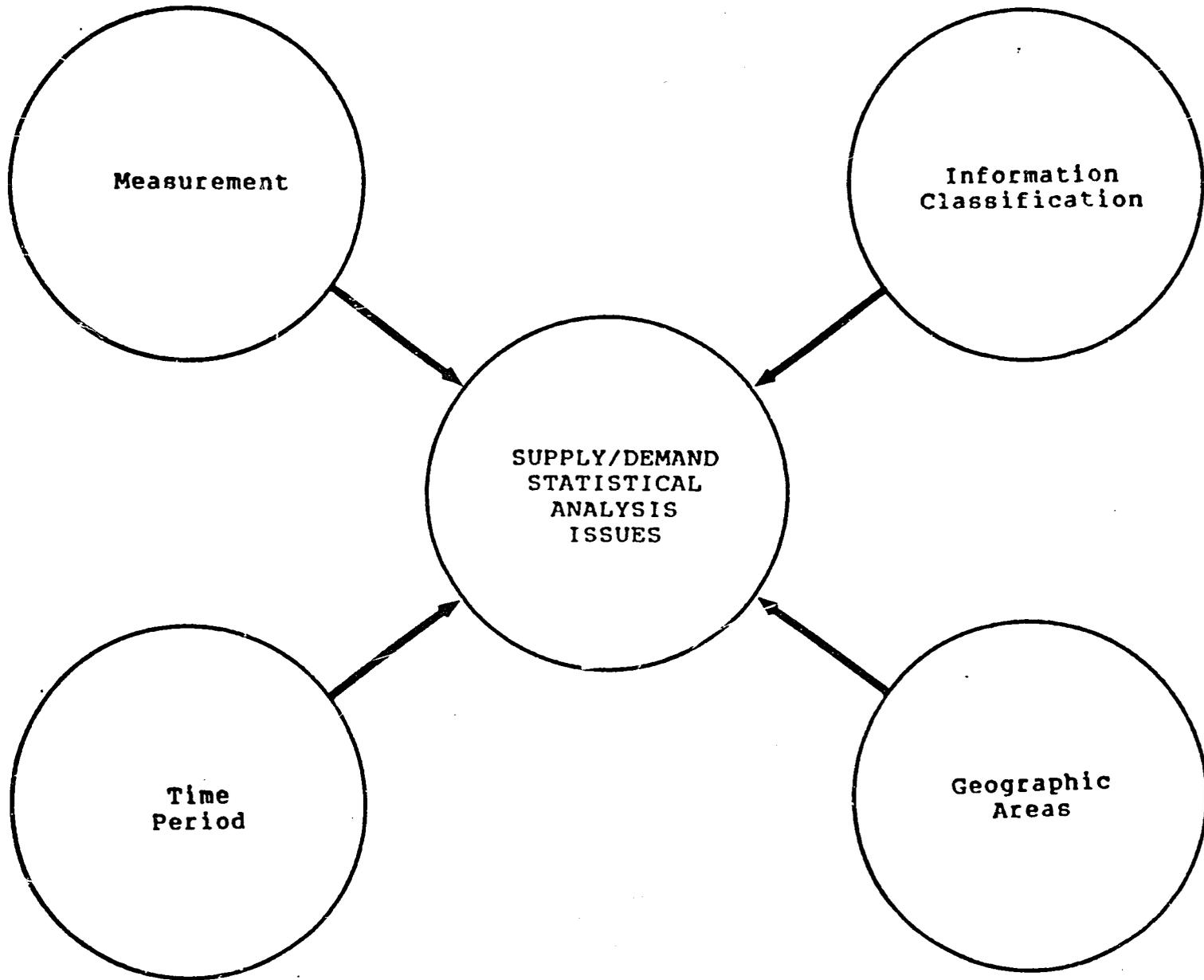
a. Information Classification Procedures

- i. Problem: Is demand and supply data presented in different formats/classifications (For example, demand data is for "secretaries" but training institutions provide supply data on "commercial courses".)

Solution: Relate demand data, classified by occupation, to supply data provided in other formats (e.g., by training program) by developing and/or using "crosswalks" (tables comparing different classification systems) (see Appendix D for Sample).

In the above example data, several occupations, including secretaries/stenographers/typists could all be matched with supply data from commercial training programs. Ref. OISH II:4.1.2. _____

- ii. Problem: Does information from supply data sources (e.g., education and training programs) use different classification structures? (For example, one school reports mechanical graduates and another lathe operators while in fact both programs train for the same occupations.)



Solution: Combine multiple sources of data on supply (e.g., graduates from training institutions) based on common curriculum objectives. Match these clusters to demand data. In the previous example, supply data from both programs could be placed under the general supply category of "machine shop training". Ref. OISH II:4.1.4.

- iii. Problem: Is there a need for occupational demand/supply information to be presented in a specific manner based on the intended use of the analysis? (For example, you wish to examine all demand and supply data relating to accounting occupations.)

Solution: Step 1: Select/create a unit of analysis that meets the needs for planning Participant Training Programs (e.g., Bookkeeping and Accounting).

Solution: Step 2: Group all related occupational and training program titles under this Unit of Analysis (See Appendix K for sample). Ref. OISH II:4.1.6.

Solution: Step 3: Allocate demand/supply data to the units of analysis in the presentation format selected (See Appendix I for sample format that includes a grouping of data on Bookkeeping and Banking).
Ref. OISH II:4.1.6.

b. Geographic area analysis

- i. Problem: Demand/supply analyses are needed for regional areas not covered by demand data sources. How can other sources of demand data be used to facilitate a regional analysis? (For example, you need projected demand for accountants for the Capital City however, projected demand data is only available country-wide.)

Solution: Develop a localized long-term demand analysis by identifying relative occupational demand country-wide (e.g., if you know the employment of accountants in the Capital City you can determine

projected demand by applying country-wide employment/demand ratios to city accountant employment data). Caution, an occupation that is large country-wide may not exist in a local region, or may not be a growth occupation, if possible, check other data sources (e.g., Employment Service information). Ref. OISH II: 4.2.2.

- ii. Problem: The geographic coverage of the sources of data on entrants from education and training programs vary significantly. How can data from these sources be related to desired geographic area(s)? For example, you want training program data on accountants for the entire country. The Government provides country-wide data reports, but private training schools report by institution.

Solution: If the desired geographic area(s) are broader than the area covered by the data source, combine that data to the desired area (e.g., condense institutional private school training report data into a country-wide summaries and add this to the Government country-wide training report). Ref. OISH 4.2.4.

- iii. Problem: Is the inclusion of supply data on job seekers desired in the final demand/supply analysis to obtain a more comprehensive picture of occupational supply? How can data from these sources be related to desired geographic area/s (e.g., how can you relate the number of accountants looking for work at the Capital City employment service/labor exchange to the long-term projected demand for accountants country-wide)?

Solution: Compile data from desired area(s) or limit geographic coverage to the smallest geographic area which is common to different data sources (e.g., compare Capital City labor exchange data on accountants with long-term employment demand data for the Capital City). You may also get labor exchange data on accountants from all other centers and compare it to country-wide long-term demand data for accountants. Caution, job seekers may register in several exchanges, therefore, combining these data may cause an over-count. Ref. OISH II:4.2.5.

- iv. Problem: What methods can be used to determine the functional labor market area for specific occupations? For example, how far do accountants normally migrate to a job when they complete training and how far do they move when they change jobs.

Solution: Identify historical patterns of geographic migration and data on the location of labor market entry of individuals from education/training programs based on follow-up information. For example, contact training institutions and determine where the accountants they have trained are working, contact the employment service labor exchange and find out where accountant job seekers are from, contact selected accountants working in the private and public sector and determine where they worked last or were trained. Ref. OISH II:4.2.6.

c. Time/Period Analysis

- i. Problem: Do employment projection methodologies account for changes in economic conditions? How can effects of such changes in industry employment levels, or distribution be taken into consideration when long-term demand data are used? For example, in the last three months a government decree has placed strict controls on foreign currency exchange, outlawed private "street" money changers, and required all foreign exchange transactions to go through the Chartered Banks. You are trying to determine what effect this is having on the employment demand for accountants and banking occupations.

Solution: When projections are not considered sufficiently current, compare with more recent sources, use relative rather than absolute levels of employment. For example, contact Chartered Banks and determine how the recent decree has altered their hiring and employment practices, in particular the hiring of accountants and bookkeepers. If they are hiring more,

determine the source. Adjust the old employment projections for accountants in the banking industry with the information you obtain. Ref. OISH 4.3.2. _____

- ii. Problem: Does data available from different education/training programs represent time periods that are not consistent? How can data from different time periods be related for subsequent demand/supply analysis (e.g., government reports on accounting training programs are always two years old when produced, however, private training institution reports are available for the last year).

Solution: Estimate supply for the desired time period by using historical trends, (e.g., estimate the number of last year accounting graduates from government institutions by using historical graduate data from the past several years, add this to the number of accountant graduates from private schools for the last year). Ref. OISH II:4.3.4. _____

- iii. Problem: How can supply data be related to projected long-term demand? For example, you are aware the National Polytechnic has started a new three-year accountancy course and graduates will be entering the job market in three years.

Solution: Estimate education/training supply using current enrollment data and apply historical trends to the share of enrollees who complete or leave with marketable skills (e.g., estimate the number of graduates from the new Polytechnic training program in three years by comparing current enrollment data with historical enrollment/completion ratios for other Polytechnic and government accountancy training programs). _____

d. Measurement Analysis

- i. Problem: Do gaps in coverage occur in establishment surveys, due to incomplete registry of firms and large informal

sector employment? If so, is data on current and long-term future employment incomplete? For example, establishment surveys indicate that the employment of accountants is 5,000 in the country, however, these surveys do not include individuals that do accountancy/bookkeeping work fulltime at home since they are not required to register as a business under current government regulations.

Solution: Use available data along with supplemental sources. Where available, include census-based data. For example, you find that there are 12,000 accountants registered as currently active at the Accountancy Board of Examiners/Registration. In checking Census data, you find that some 10,000 individuals have indicated that their occupation is accountant. You increase projected long-term future employment, obtained from establishment surveys, by 100%.

- ii. Problem: Does combining data on entrants to the labor force from different education training programs result in an overcount because the individual could be counted by more than one agency? For example, the Ministry of Education and private training institutions both report the number of graduates from each year. The Ministry registers all private schools and therefore includes their graduates in its yearly report.

Solution: Compare data from several sources at a time. Identify the nature of the overlap, and establish rules for avoiding duplication. (For example, in reporting supply, you subtract private school graduate data from government data summaries in order that graduate data from private and public sources is clearly defined and does not overlap.)

- iii. Problem: Because of service overlaps between reporting systems that provide data on job seekers, might duplication of data occur? For example, job seekers register at several government employment

service labor exchanges as well as private labor exchanges.

Solution: Where possible, match individual identification numbers from overlapping data sources. Establish rules for counting each individual only once when using data on job seekers in demand/supply analysis. For example, all job seekers are required to give their national identification number when they register at government and private labor exchanges. You complete a sample study to determine the amount of duplication, by occupation, between government labor exchanges and between government and private labor exchanges. You develop ratios of duplication between exchanges and apply these to labor exchange data to reduce overcount in your supply estimates.

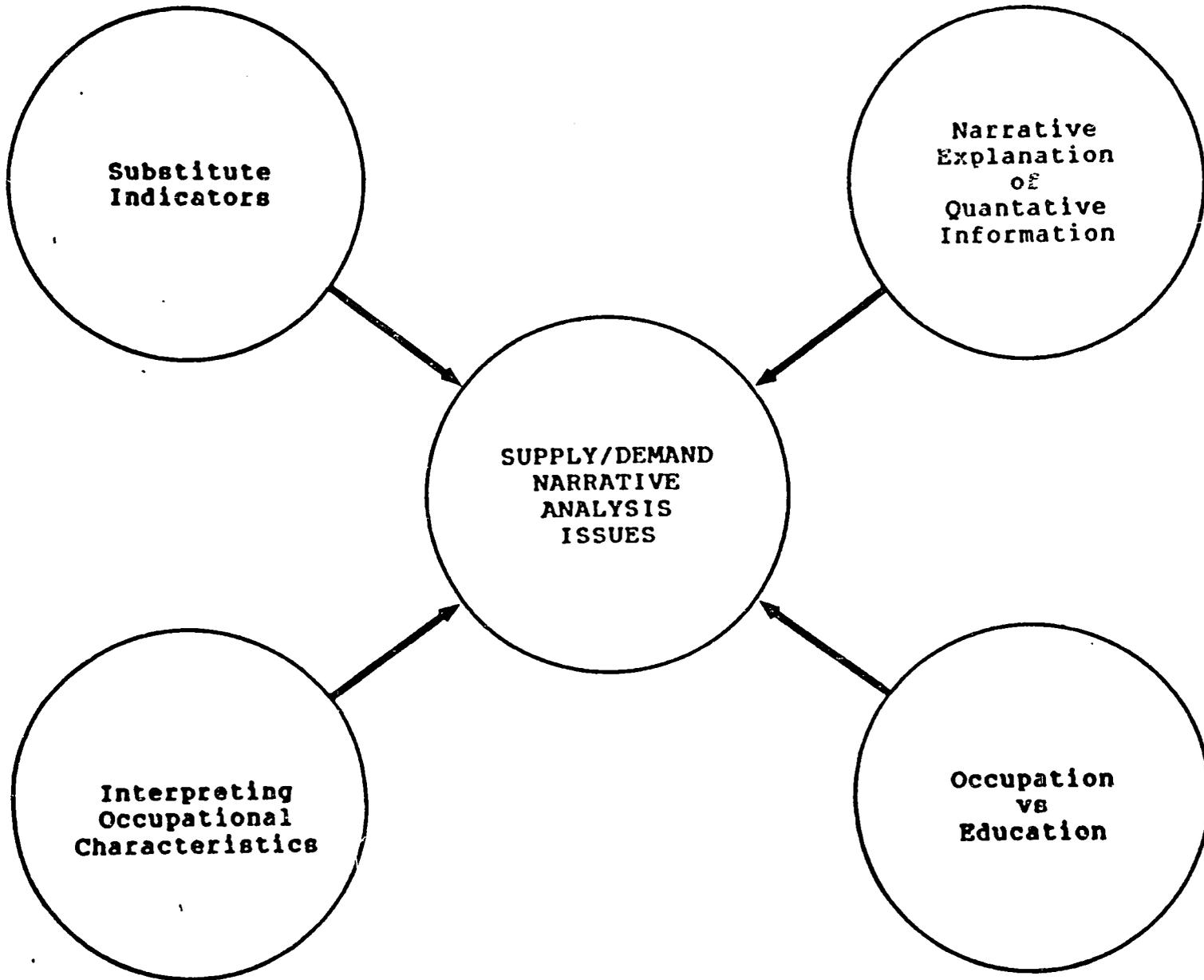
2. Narrative/Qualitative Analysis, Issues and Procedures

The objective of this section is to: (1) further interpret and explain the results of the quantitative statistical analysis, and (2) add qualitative, non-statistical, information to the overall analysis of manpower demand/supply.

Occupational supply and demand information developed through the previous statistical or quantitative analysis should have the following features: common units of analysis, comparable geographic area coverage, comparable time period coverage, no interpretation, representative of a variety of programs and data sources, and presented in a tabular display.

This section describes the final step in the analysis process, specifically: methods and techniques of interpreting and explaining demand/supply data in a narrative form. Four techniques of analyses are discussed (see graphic summary on next page):

- a. Narrative explanation of the tabular quantitative demand/supply analysis;
- b. Occupational characteristics that relate education and training programs to occupational entry;
- c. Occupational characteristics that can be used to interpret or qualify the demand/supply relationships;
- d. Proxy (substitute) indicators of occupational demand/supply relationships.



a. Narrative Explanation of the Quantitative Supply Demand Information:

i. Comparison of Data Within a Given Unit of Analysis: Given the tabular presentation of data developed through the previous steps (see Appendix I for sample) compare the relative size of the demand and supply numbers for a specified unit of analysis (e.g., accounting). The results of this comparison may be described in words and can, in conjunction with tabular data, be used to develop the type of sample narrative found in the case study in the introduction of Section II.

- What is the relationship between supply and demand?

Demand is much greater than supply _____

Demand greater than supply _____

Balance between demand and supply _____

More supply than demand _____

and/or

Job seekers have:

Excellent opportunities _____

Good or favorable opportunities _____

Face competition _____

Face strong competition _____

ii. Comparison of Data Across Different Units of Analysis (e.g., Accounting, banking and finance - see Appendix I). This type of analysis involves assessing the relative size of demand/supply numbers across different occupations, programs, or clusters which have similar skill requirements. Here one must be careful to make accurate assumptions about occupational transfer, if these are inaccurate, the conclusions about demand/supply will be inaccurate. The same narrative descriptions can be use as outlined in above. _____

b. Occupational Characteristics that Relate Education and Training Programs to Occupational Entry:

While the previous section suggested methods of comparing "hard statistical numbers", this section considers some "soft" measures that can be used to interpret the demand/supply data based on occupational characteristics.

- i. Labor Organizations/Unions: Do these organizations have a significant effect on entry into the occupation? Ref. OISH II:5.2.1. _____
- ii. Occupational Demographics: Does age, sex, or race have an impact on entry into this occupation? Ref. OISH II:5.2.2 _____
- iii. Entry-Level (methods of entry): Is entry to this occupation direct from training programs or from another avenue? Ref. OISH II:5.2.3. _____
- iv. Industrial Concentration: Is the occupation concentrated in a few industries and does this affect entry? Ref. OISH II:5.2.4. _____
- v. Licensing/Certification and Registration: Are there specific requirements that affect supply demand? Ref. OISH II:5.2.5. _____
- vi. Education and Training Requirements: Do training programs meet entry level requirements? Ref. OISH II:5.2.6. _____

c. Occupational Characteristics that can be Used to Interpret or Qualify the Demand/Supply Relationship

- i. Job Stability: Stability can be cyclical (based on business cycles) or seasonal. Is employment in the occupations in question: highly stable, moderately stable, or unstable, why? Ref. OISH II:5.3.1. _____
- ii. Turnover/New Hires: A high turnover rate may indicate that long-term demand figures do not fully represent the dynamic demand for the occupation or there are factors which make the occupation undesirable, why? Ref. OISH II:5.3.2. _____
- iii. Wages: Generally, high wages positively affect the supply of workers available for work in an occupation and low wages have a negative impact. Ref. OISH II:5.3.3. _____

iv. Working Conditions, Physical Environment:
Do the occupations in question have conditions that will have a negative or positive affect on demand/supply? Ref. OISH II:5.3.4. _____

d. Proxy (Substitute) Indicators of the Occupational Demand/Supply Relationship: This section describes several proxy factors that may be used to describe demand/supply relationships in addition to quantitative/tabular information and related analysis. These proxy indicators may be of special use in developing countries where "hard data sources" are difficult to obtain. Proxy indicators should be used with caution as coverage of their data sources are often more limited than that of the demand/supply sources previously described.

i. Historical Placement Data: Historical information on placements by occupation reported by education and training institutions or the employment exchange can provide a useful indicator of past demand/supply relationships. Are placements high, medium, or low? Ref. OISH 5.4.1. _____

ii. Ratio of Job Orders to Applicants at the Employment Service/Labor Exchange: An increasing number of applicants, in excess of job orders, may indicate a general labor market excess supply in that occupation. What is the ratio of the occupation in question? Ref. OISH II: 5.4.2. _____

iii. Hard to Fill Job Openings: Is there evidence to indicate that the position is an occupation that is hard to fill? Caution, is the problem due to under supply or other factors? Ref. OISH II:5.4.3. _____

iv. Emerging Occupations: Is the occupation relatively new? Are avenues of supply available? Ref. OISH II:5.4.4. _____

v. Industrial Growth Patterns: Are industries that affect the occupations in question expanding, stable, or decreasing? Ref. OISH II: 5.4.5. _____

If you have successfully completed the previous checklists, you should be able to complete the Sector Labor Force Analysis Working problem found in Appendix O.

NEXT STEP AFTER COMPLETION OF THE SECTOR LABOR FORCE ANALYSIS: At the completion of the statistical and narrative analysis outlined in the previous checklists, the planner is now ready to go to Section I of this Guide to begin determining the "availability of candidates" and selecting "specific trainees" for given participant training programs.

SECTION III, ALTERNATIVE APPROACHES TO PARTICIPANT TRAINING

Objective: This section identifies elements that should be addressed in selecting alternative approaches to Participant Training.

In completing previous sections in this Guide, information has been gathered, organizational objectives have been established, and human resource needs have been identified, relating to the needs for project-related or general training. In completing this process, a series of decision points have been identified to determine the availability of trained manpower and the need for Participant Training.

However, there may be a number of conditions that prohibit carrying out original training plans. For instance, changes in host government project priorities, the inability to recruit qualified candidates, and other factors. In considering alternative approaches to training, it is important to ensure that the identified goals of the project remain intact. When selecting an alternative training plan, it is critical to ensure that the quality of training, or operation of the project, will not be compromised.

1. Alternatives Needed: What training competencies does an alternative training approach require?
2. Original Goals: Has A.I.D. ascertained that the original PTP goals are intact?
3. Types of Alternatives: What alternatives are available?

Apprenticeship Programs: Are there viable apprenticeship programs or on-the-job training programs available locally or in neighboring countries?

Internships: Can internships be arranged which would provide practical training experiences?

Technical Courses: Can experts, on a consultancy basis, be hired to offer courses at local colleges or universities?

Training Workshops/Conferences: Can a series of practical workshops be conducted by hiring expert contract trainers?

In-Service Workshops: Can on-site training be conducted to train or re-train personnel on a regular basis?

Conferences: Can a series of conferences be developed in conjunction with sponsoring Host Country agencies to develop skill training programs?

Split Training: Can split training in the targeted area be conducted; for example, half-day on-the-job, and half-day instruction at a local technical college?

Work Retreats: Can practical work programs be developed at different locations in the country to provide the necessary technical skills? For example, could a surveyor's program be developed at a roads construction site where individuals could be taught the necessary skills.

4. Coordinate/Communicate Changes: Has a plan been developed to inform the sponsoring organization and the candidates about an alternative training strategy? Will an alternative training plan effect the number and types of candidates?
5. Approved Changes: Has A.I.D. approved changes in the Participant Training Program specifications? Have all parties approved the specification changes? Are specification changes realistic in terms of meeting identified project goals?
6. Effect on Scheduling: Will time-lines of the project be affected by alternative training procedures?

ABSTRACT

The objective of this "crosswalk" Manual is to identify training program titles that prepare individuals for specific occupations. In addition, the document provides an estimate of reading, mathematics, and literacy requirements for occupations as well as estimates of the duration (length) of the related training programs.

Part of the process of defining USAID projects includes defining the specific activities or tasks individuals will be called on to perform in implementing a project and sustaining sector operations once the project is completed. These tasks can be defined as jobs or occupations. Based on a review of manpower demand/supply in the country, USAID may opt to provide training for individuals in the identified occupational areas in order to ensure the project can be implemented, and subsequent sector development sustained after the project is completed. In short, provide project related training. In order to complete this cycle of occupational definition, identification of required training programs, selection of training sites/institutions, and selection of trainees there is a need to link several data systems. The linkage process, up to the point of selection of specific training institutions, is outlined in the Training Needs Assessment Guide (TNAG). Techniques for linking occupations, training programs titles, and training times are described in Appendix D of the TNAG

The following pages of this Manual provide comprehensive information to complete these linkages including:

- o Titles, codes, and definitions of all occupational titles in the U.S. Standard Occupational Classification (SOC). This classification is the standard in the U.S. and is very closely related to the International Standard Classification of Occupations used in many developing countries.
- o Standard U.S. Classification of Instructional Programs (CIP) titles of training programs related to each SOC occupation.
- o Titles of more detailed job/occupational descriptions from the Dictionary of Occupational Titles (DOT) for each of the SOC and CIP titles.
- o Identification of the reading, mathematics and literacy skill requirements for each DOT occupation.
- o Identification of estimates of the training times for each occupations.

This Manual was developed for USAID by the National Crosswalk Center of the U.S. National Occupational Information Coordinating Committee (NOICC) and should greatly assist USAID project officers in defining project occupational titles and identifying related training programs titles in the U.S. Additional information sources, identifying specific institutions that provide training related to the SOC Occupational descriptions, and CIP training titles, identified in this Manual is also available as described in Appendix D of the TNAG.

**AGENCY FOR INTERNATIONAL DEVELOPMENT
OCCUPATIONAL AND TRAINING PROGRAM REPORT**

Introduction

This report was produced in an effort to document the relationships between occupations and related training programs in the United States. It was produced by the National Crosswalk Service Center, which provides occupational information and technical assistance to states under a contract with the National Occupational Information Coordinating Committee.

The National Occupational Information Coordinating Committee (NOICC) is a federal interagency committee established by Congress in 1976 to improve coordination and communication among developers and users of occupational information and to help states develop and implement systems that would meet the labor market information needs of planners and administrators of employment- and job-related programs.

The nine members of the National Occupational Information Coordinating Committee represent federal agencies that produce and use occupational information, including agencies in the Departments of Labor, Education, Commerce, Agriculture and Defense. Its operations are carried out by an Executive Director and a Washington, D.C.-based staff.

The National Crosswalk Service Center is a technical resource center for NOICC. The center maintains a major tool used in coordinating labor market information -- the NOICC Master Crosswalk. The NOICC Master Crosswalk is a computerized database that shows relationships among the five major occupational and educational classification systems used by the federal government. Through the crosswalk, data classified according to one of these different systems can be compared with data from one or all of the other systems. The NOICC Master Crosswalk serves as one of the major sources of information for this report. Another major source of information for this report is a database which links higher education training programs with their occupational outcomes. This "crosswalk" was produced by the Iowa State Occupational Information Coordinating Committee.

STANDARD OCCUPATIONAL CLASSIFICATION

The 1980 Standard Occupational Classification (SOC) is the federal government's basic occupational classification system. It provides a mechanism for cross-referencing and aggregating occupation-related data collected by social and economic statistics reporting programs. The system is designed to maximize the analytical utility of statistics on labor force, employment, income and other occupational data collected for a variety of purposes by various agencies, professional associations, labor unions and private research organizations.

The classification covers all occupations in which work is performed for pay or profit, including work performed in family-operated enterprises where direct remuneration may not be made to family members. The SOC provides a coding system and nomenclature for identifying and classifying occupations with a framework suitable for use in and out of government. It has been adopted by NOICC as the standard classification to be used for programs. In addition, major federal programs which collect occupational information at the Bureau of the Census and the U.S. Department of Labor use classification systems which are based on the SOC.

For more information see:

U.S. Department of Commerce. Office of Federal Statistical Policy and Standards. **Standard Occupational Classification Manual.** Washington: U.S. Government Printing Office, 1980.

CLASSIFICATION OF INSTRUCTIONAL PROGRAMS (CIP)

The Classification of Instructional Programs (CIP), published in 1981 and updated in 1985, attempts to address some of the problems that were found in collecting, reporting, and analyzing information about instructional programs. There were five major design criteria used in the development of CIP:

- O Distinctions among programs were made on the basis of program purposes or objectives.
- O The classification applies to all instructional programs without regard to institutional types.
- O The classification applies to programs at all educational levels-- elementary, secondary, and post-secondary.
- O For the purpose of continuity, ties to existing taxonomies are maintained as long as they do not contradict other established criteria.
- O The classification reflects the historical traditions of various instructional program areas.

The CIP is built on a three-level hierarchical system. It consists of six digits that permit aggregation of comparable programs at varying levels of detail. From the broad two-digit program category level--through an intermediate four-digit level--to the most detailed six-digit program level.

CIP was designed to be exhaustive and to avoid duplication among the categories. In cases where a program has historically been classified in either of two places, a cross-reference has been provided from one two-digit grouping to another. In these cases the program will appear in two different areas. However, all program titles will have a single unique code derived from a single area.

The 1985 NOICC Master Crosswalk data base contains only those CIP programs identified as related to vocational education at the secondary and non-baccalaureate post-secondary levels. It does not include higher education or non-vocational secondary and post-secondary programs. The relationships between higher education training programs and occupations found in this report were taken from a set of relationships developed by the Iowa State Occupational Information Coordinating Committee.

For more information see:

Malitz, Gerald S. U.S. Department of Education. National Center for Education Statistics. A Classification of Instructional Programs. Washington: U.S. Government Printing Office, 1985.

DICTIONARY OF OCCUPATIONAL TITLES

The Dictionary of Occupational Titles comprehensively identifies and defines virtually all civilian sector occupations, and is the most detailed occupational classification system used in the United States. The DOT was originally developed in 1939 by the U.S. Department of Labor to facilitate the matching of workers with jobs and to assist in providing occupational guidance in local Employment Service offices. The DOT provided staff in Employment Service offices with a compendium, or dictionary, of occupational titles in common usage in U.S. markets. Since that time, the use of the DOT has expanded throughout the civilian sector. It is now one of the fundamental tools of all career guidance counselors involved in assisting individuals in making occupational choices.

The Fourth Edition of the DOT, published in 1977, in conjunction with the DOT supplement, published in 1982, provides detailed information about 12,375 different coded occupations. Within this edition, defined titles are classified by occupational groups using a unique nine-digit number for each defined title. A second supplement, published in 1986, introduces approximately 485 new occupations and other information about occupations. The new occupations contained in the second supplement are not included in either this report or the 1985 NOICC Master Crosswalk.

A great deal of information about each of the occupations in the DOT is available in the NOICC Master Crosswalk, including classifications of the physical demands, environmental conditions, temperaments and aptitudes related to each of the 12,375 occupations. Two additional dimensions of the occupations are presented in this report, the General Educational Development (GED) and Specific Vocational Education (SVP, shown as "TRAINING TIME" in the report).

GENERAL EDUCATION DEVELOPMENT (GED)

The basic concept of General Education Development (GED) is that some amount of general education and/or life experience is necessary for the satisfactory performance of any given job. This amount varies according to the nature and complexity of the job.

GED is defined as follows:

General Education Development embraces those aspects of education (formal and informal) which contribute to the worker's (a) reasoning development and ability to follow instructions and (b) acquisition of "tool" knowledges, such as language and mathematical skills. This is education of a general nature which does not have a recognized, fairly

specific occupational objective. Ordinarily, such education is obtained in elementary school, high school, or college. However, it derives also from experience and self-study.

GED is subdivided into three factors: reasoning development, mathematical development and language development. The chart on the following page defines the six levels of each of these factors.

SPECIFIC VOCATIONAL PREPARATION (SVP)

The idea underlying Specific Vocational Preparation (SVP) is that some amount of time is required to learn the techniques, develop the facility, and acquire the knowledge for acceptable performance in a specific occupation.

Specific Vocational Preparation is defined as follows:

- .The amount of time required to learn the techniques, acquire the information, and develop the facility needed for average performance in a specific job-worker situation. This training may be acquired in a school, work, military, institutional, or vocational environment. It does not include orientation training required of a fully qualified worker to become accustomed to the special conditions of any new job.

Specific vocational preparation can include:

- a. Vocational education (high school, commercial, or shop technical school, area school, art school, and that part of college training which is organized around a specific vocational objective);
- b. Apprentice training (obtained in those jobs offering apprenticeship);
- c. In-plant training (given by the employer in the form of organized classroom study);
- d. On-the-job training (instruction given to learner or trainee on the job by a qualified worker);
- e. Essential experience in other jobs (received in less responsible jobs or other jobs which qualify the individual for a higher grade job).

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To express the amount of Specific Vocational Preparation (SVP) required by various jobs, the following scale of time periods has been established.

Level

- 1 Short demonstration only
- 2 Anything beyond short demonstration up to and including 30 days
- 3 Over 30 days up to and including 3 months
- 4 Over 3 months up to and including 6 months
- 5 Over 6 months up to and including 1 year
- 6 Over 1 year up to and including 2 years
- 7 Over 2 years up to and including 4 years
- 8 Over 4 years up to and including 10 years
- 9 Over 10 years

SVP does not represent just the amount of time required to learn a job. It also involves any amount of practice time needed to apply the learning in order to reach a level of average performance. This can be illustrated in the case of a bus driver. An inexperienced driver may "learn how" to operate a bus within a few days but it will take some weeks, perhaps months, before the person develops the competence of average bus driving. It is important to note that SVP is always measured by performance.

For more information see:

U.S. Department of Labor. Employment and Training Administration. Dictionary of Occupational Titles. Fourth Edition. Washington: U.S. Government Printing Office, 1977.

U.S. Department of Labor. Employment and Training Administration. Dictionary of Occupational Titles. Fourth Edition Supplement. Washington: U.S. Government Printing Office, 1982.

U.S. Department of Labor. Employment and Training Administration. Dictionary of Occupational Titles. Fourth Edition Supplement. Washington: U.S. Government Printing Office, 1986.

U.S. Department of Labor. Employment and Training Administration. Selected Characteristics of Occupations Defined in the Dictionary of Occupational Titles. Washington: U.S. Government Printing Office, 1981.

U.S. Department of Labor. Manpower Administration. Handbook for Analyzing Jobs. Washington: U.S. Government Printing Office, 1972.

**U.S. Agency for International Development
Training Program and Occupational Report**

January, 1988

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
TRAINING PROGRAM AND OCCUPATIONAL REPORT
BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1000

EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS

Workers in executive, administrative, and managerial occupations plan and direct the operations of businesses, industries, institutions, and government. They examine information and conditions, determine the best plan to make needed changes, and implement these plans. They may enact or enforce laws, policies, rules, regulations, and codes. They hire staff and delegate responsibility for the work to be done or the goals they set.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER GROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
TRAINING PROGRAM AND OCCUPATIONAL REPORT
BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1100

OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION

These workers plan policies and direct activities in government and government agencies. They may be elected officials, such as legislators, or chief executives who coordinate government activities. Others head agencies that collect taxes, enforce regulations, protect natural resources, or plan community development. Officials and administrators appoint staff, plan and administer policies, supervise activities, prepare budgets, propose laws and regulations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
TRAINING PROGRAM AND OCCUPATIONAL REPORT
BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1110

LEGISLATORS

Legislators are lawmakers. They are public employees elected to serve in governing bodies such as city councils, state legislatures, or the United States Congress. They learn what the public wants or needs, write bills proposing changes in the law, and vote to pass bills into law. They investigate matters of public concern that might affect the law or cause a new law to be written.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1120

CHIEF EXECUTIVES AND GENERAL ADMINISTRATORS

These people are in charge of State or local governments. Some work as elected officials to plan and administer the policies and activities of a state government. Others direct a city or county government, following policies set by local elected officials. They appoint department heads and staffs and prepare yearly budgets and plans. They supervise the activities of departments that collect taxes, enforce laws, and provide health and other services. They also propose laws and regulations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	188.117-114	MANAGER, CITY	5 4 5 FOUR TO TEN YEARS
04.0701	URBAN DESIGN	*188.117-114	MANAGER, CITY	5 4 5 FOUR TO TEN YEARS
44.0401	PUBLIC ADMINISTRATION	*188.117-114	MANAGER, CITY	5 4 5 FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1130

OFFICIALS AND ADMINISTRATORS, GOVERNMENT AGENCIES

Workers in these occupations direct government agencies. They may direct programs of agencies concerned with such things as justice and public safety, human or natural resources development, taxation, or urban and rural development. Important responsibilities for agency administrators include directing staff, interpreting policies, enforcing rules, and preparing budgets or reports.

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1131

JUDICIAL, PUBLIC SAFETY, AND CORRECTIONS ADMINISTRATORS

These people direct programs that promote justice, public safety, and order. They direct activities in such places as police and fire departments, public safety agencies, and prisons. An important part of their work consists of directing staff, interpreting policies, enforcing rules, and preparing budgets and reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M I	TRAINING TIME
00.0000 NO CIP ASSIGNED	169.127-010 CIVIL PREPAREDNESS TRAINING OFFICER	4 3 4	ONE TO TWO YEARS
	188.117-022 CIVIL PREPAREDNESS OFFICER	5 3 5	ONE TO TWO YEARS
	188.117-054 DIRECTOR, CORRECTIONAL AGENCY	6 5 5	FOUR TO TEN YEARS
	188.117-070 DIRECTOR, LAW ENFORCEMENT	5 5 5	TWO TO FOUR YEARS
	188.117-118 POLICE COMMISSIONER I	5 4 5	FOUR TO TEN YEARS
	188.117-130 COURT ADMINISTRATOR	5 4 5	FOUR TO TEN YEARS
	188.167-026 DIRECTOR, CLASSIFICATION AND TREATM	5 4 5	TWO TO FOUR YEARS
	188.167-034 DIRECTOR, SAFETY COUNCIL	5 5 5	FOUR TO TEN YEARS
	188.167-094 SUPERINTENDENT, INDUSTRIES, CORRECT	4 4 4	FOUR TO TEN YEARS
	188.167-102 TRAFFIC-SAFETY ADMINISTRATOR	5 4 5	FOUR TO TEN YEARS
03.0203 RESOURCES PROTECTION AND REGULATION	169.167-022 FIRE ASSISTANT	4 3 4	ONE TO TWO YEARS
43.0101 CORRECTIONAL ADMINISTRATION	*188.117-054 DIRECTOR, CORRECTIONAL AGENCY	6 5 5	FOUR TO TEN YEARS
	*188.167-026 DIRECTOR, CLASSIFICATION AND TREATM	5 4 5	TWO TO FOUR YEARS
	*188.167-094 SUPERINTENDENT, INDUSTRIES, CORRECT	4 4 4	FOUR TO TEN YEARS
43.0105 CRIMINAL JUSTICE TECHNOLOGY	375.117-010 POLICE CHIEF	5 3 4	OVER 10 YEARS
43.0107 LAW ENFORCEMENT	375.117-010 POLICE CHIEF	5 3 4	OVER 10 YEARS
	375.167-026 HARBOR MASTER	5 3 4	FOUR TO TEN YEARS
43.0108 LAW ENFORCEMENT ADMINISTRATION	*188.117-118 POLICE COMMISSIONER I	5 4 5	FOUR TO TEN YEARS
	*375.117-010 POLICE CHIEF	5 3 4	OVER 10 YEARS
43.0201 FIRE CONTROL AND SAFETY TECHNOLOGY	169.167-022 FIRE ASSISTANT	4 3 4	ONE TO TWO YEARS
43.0202 FIRE PROTECTION ADMINISTRATION	*373.117-010 FIRE CHIEF	5 4 5	FOUR TO TEN YEARS
43.0203 FIREFIGHTING	169.167-022 FIRE ASSISTANT	4 3 4	ONE TO TWO YEARS
	373.117-010 FIRE CHIEF	5 4 5	FOUR TO TEN YEARS
44.0602 PUBLIC TRANSPORTATION	*188.167-102 TRAFFIC-SAFETY ADMINISTRATOR	5 4 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1132

HUMAN RESOURCES PROGRAM ADMINISTRATORS

People in these jobs plan, organize, and direct programs that provide public services for people. These programs offer services in such areas as employment and training, health, recreation, welfare, consumer affairs, and aging. An important part of these ADMINISTRATORS' work consists of directing staff, interpreting policies, enforcing rules, and preparing budgets and reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	050.117-010 DIRECTOR, EMPLOYMENT RESEARCH AND P	5 5 5 FOUR TO TEN YEARS
	079.167-010 COMMUNITY-SERVICES-AND-HEALTH-EDUCA	6 5 6 FOUR TO TEN YEARS
	169.117-010 EXECUTIVE SECRETARY, STATE BOARD OF	5 5 5 FOUR TO TEN YEARS
	169.167-046 PUBLIC HEALTH REGISTRAR	4 3 4 TWO TO FOUR YEARS
	187.117-050 PUBLIC HEALTH SERVICE OFFICER	5 5 5 FOUR TO TEN YEARS
	188.117-010 APPRENTICESHIP CONSULTANT	5 4 5 FOUR TO TEN YEARS
	188.117-014 BUSINESS-ENTERPRISE OFFICER	5 4 5 ONE TO TWO YEARS
	188.117-042 DIRECTOR, ARTS-AND-HUMANITIES COUNC	5 5 5 FOUR TO TEN YEARS
	188.117-046 DIRECTOR, COMPLIANCE	5 4 5 TWO TO FOUR YEARS
	188.117-050 DIRECTOR, CONSUMER AFFAIRS	5 5 5 FOUR TO TEN YEARS
	188.117-058 DIRECTOR, COUNCIL ON AGING	5 4 5 FOUR TO TEN YEARS
	188.117-062 DIRECTOR, FIELD REPRESENTATIVES	5 5 5 FOUR TO TEN YEARS
	188.117-066 DIRECTOR, LABOR STANDARDS	5 5 5 FOUR TO TEN YEARS
	188.117-078 DIRECTOR, EMPLOYMENT SERVICES	5 5 5 FOUR TO TEN YEARS
	188.117-094 DIRECTOR, UNEMPLOYMENT INSURANCE	5 5 5 FOUR TO TEN YEARS
	188.117-126 WELFARE DIRECTOR	5 5 5 FOUR TO TEN YEARS
06.0702 RECREATIONAL ENTERPRISES MANAGEMENT	187.117-054 SUPERINTENDENT, RECREATION	5 3 5 FOUR TO TEN YEARS
06.1401 MARKETING MANAGEMENT	187.117-054 SUPERINTENDENT, RECREATION	5 3 5 FOUR TO TEN YEARS
08.0903 MARKETING OF RECREATIONAL SERVICES	187.117-054 SUPERINTENDENT, RECREATION	5 3 5 FOUR TO TEN YEARS
13.1201 ADULT AND CONTINUING EDUCATION	*188.117-062 DIRECTOR, FIELD REPRESENTATIVES	5 5 5 FOUR TO TEN YEARS
13.1319 TECHNICAL EDUCATION	*188.117-062 DIRECTOR, FIELD REPRESENTATIVES	5 5 5 FOUR TO TEN YEARS
13.1320 TRADE AND INDUSTRIAL EDUCATION	*188.117-010 APPRENTICESHIP CONSULTANT	5 4 5 FOUR TO TEN YEARS
	*188.117-062 DIRECTOR, FIELD REPRESENTATIVES	5 5 5 FOUR TO TEN YEARS
17.0409 POPULATION AND FAMILY PLANNING	*079.167-010 COMMUNITY-SERVICES-AND-HEALTH-EDUCA	6 5 6 FOUR TO TEN YEARS
18.0702 HEALTH CARE PLANNING	*079.167-010 COMMUNITY-SERVICES-AND-HEALTH-EDUCA	6 5 6 FOUR TO TEN YEARS
18.1022 PREVENTIVE MEDICINE	*079.167-010 COMMUNITY-SERVICES-AND-HEALTH-EDUCA	6 5 6 FOUR TO TEN YEARS

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OCCUPATION: 1132 HUMAN RESOURCES PROGRAM ADMINISTRATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
18.1105	NURSING ADMINISTRATION	*169.117-010	EXECUTIVE SECRETARY, STATE BOARD OF	5 5 5	FOUR TO TEN YEARS
18.1107	PUBLIC HEALTH	*169.167-046	PUBLIC HEALTH REGISTRAR	4 3 4	TWO TO FOUR YEARS
		*187.117-050	PUBLIC HEALTH SERVICE OFFICER	5 5 5	FOUR TO TEN YEARS
18.2202	EPIDEMIOLOGY	*187.117-050	PUBLIC HEALTH SERVICE OFFICER	5 5 5	FOUR TO TEN YEARS
18.2203	PUBLIC HEALTH EDUCATION	*187.117-050	PUBLIC HEALTH SERVICE OFFICER	5 5 5	FOUR TO TEN YEARS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*187.117-050	PUBLIC HEALTH SERVICE OFFICER	5 5 5	FOUR TO TEN YEARS
44.0201	COMMUNITY SERVICES	*187.117-054	SUPERINTENDENT, RECREATION	5 3 5	FOUR TO TEN YEARS
44.0401	PUBLIC ADMINISTRATION	*188.117-014	BUSINESS-ENTERPRISE OFFICER	5 4 5	ONE TO TWO YEARS
		*188.117-042	DIRECTOR, ARTS-AND-HUMANITIES COUNCIL	5 5 5	FOUR TO TEN YEARS
		*188.117-066	DIRECTOR, LABOR STANDARDS	5 5 5	FOUR TO TEN YEARS
		*188.117-078	DIRECTOR, EMPLOYMENT SERVICES	5 5 5	FOUR TO TEN YEARS
44.0501	PUBLIC POLICY STUDIES	*050.117-010	DIRECTOR, EMPLOYMENT RESEARCH AND P	5 5 5	FOUR TO TEN YEARS
45.0601	ECONOMICS	*050.117-010	DIRECTOR, EMPLOYMENT RESEARCH AND P	5 5 5	FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1133

NATURAL RESOURCES PROGRAM ADMINISTRATORS

These people are in charge of programs and agencies that preserve, manage, and restore our natural resources. Some of their work includes managing public parks and fish and wildlife preserves. Their duties also include directing staff, interpreting policies, enforcing rules, and preparing budgets and reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	188.117-026	COMMISSIONER, CONSERVATION OF RESOU	5 4 4	FOUR TO TEN YEARS
		188.167-018	CHIEF WARDEN	5 4 4	ONE TO TWO YEARS
		188.167-054	FEDERAL AID COORDINATOR	5 4 5	TWO TO FOUR YEARS
		199.167-022	ENVIRONMENTAL ANALYST	5 3 4	FOUR TO TEN YEARS
01.0305	GAME FARM MANAGEMENT	379.137-018	WILDLIFE AGENT, REGIONAL	5 4 4	TWO TO FOUR YEARS
02.0409	RANGE MANAGEMENT	379.137-018	WILDLIFE AGENT, REGIONAL	5 4 4	TWO TO FOUR YEARS
03.0203	RESOURCES PROTECTION AND REGULATION	188.117-018	CHIEF, FISHERY DIVISION	5 4 5	FOUR TO TEN YEARS
		188.167-062	PARK SUPERINTENDENT	5 3 4	TWO TO FOUR YEARS
		379.137-018	WILDLIFE AGENT, REGIONAL	5 4 4	TWO TO FOUR YEARS
03.0601	WILDLIFE MANAGEMENT	379.137-018	WILDLIFE AGENT, REGIONAL	5 4 4	TWO TO FOUR YEARS
04.0301	CITY, COMMUNITY, AND REGIONAL PLANNING	*199.167-022	ENVIRONMENTAL ANALYST	5 3 4	FOUR TO TEN YEARS
04.0701	URBAN DESIGN	*199.167-022	ENVIRONMENTAL ANALYST	5 3 4	FOUR TO TEN YEARS
31.0301	PARKS AND RECREATION MANAGEMENT	*188.167-062	PARK SUPERINTENDENT	5 3 4	TWO TO FOUR YEARS
44.0401	PUBLIC ADMINISTRATION	*188.117-026	COMMISSIONER, CONSERVATION OF RESOU	5 4 4	FOUR TO TEN YEARS

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OCCUPATION: 1134

RURAL, URBAN, AND COMMUNITY DEVELOPMENT PROGRAM ADMINISTRATORS

These people direct programs or agencies concerned with planning, managing, and developing city and rural areas. They work in such areas as housing, road building, waste disposal, and urban renewal. Their duties often including gathering and studying information, preparing budgets and news releases, and speaking to various groups. They also direct staff work and prepare reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	005.167-022	HIGHWAY-ADMINISTRATIVE ENGINEER	6 5 6 OVER 10 YEARS
		188.117-030	COMMISSIONER, PUBLIC WORKS	5 5 5 FOUR TO TEN YEARS
		188.117-082	DIRECTOR, MEDICAL FACILITIES SECTION	5 5 5 FOUR TO TEN YEARS
		188.117-102	ECONOMIC DEVELOPMENT COORDINATOR	5 4 5 FOUR TO TEN YEARS
		188.117-110	HOUSING-MANAGEMENT OFFICER	5 3 4 FOUR TO TEN YEARS
		188.167-070	RELOCATION COMMISSIONER	5 5 5 FOUR TO TEN YEARS
		188.167-078	ROADS SUPERVISOR	5 5 5 FOUR TO TEN YEARS
		188.167-098	SUPERINTENDENT, SANITATION	5 4 5 TWO TO FOUR YEARS
04.0301	CITY, COMMUNITY, AND REGIONAL PLANNING	*188.117-030	COMMISSIONER, PUBLIC WORKS	5 5 5 FOUR TO TEN YEARS
04.0701	URBAN DESIGN	*188.117-030	COMMISSIONER, PUBLIC WORKS	5 5 5 FOUR TO TEN YEARS
		*188.117-102	ECONOMIC DEVELOPMENT COORDINATOR	5 4 5 FOUR TO TEN YEARS
14.0801	CIVIL ENGINEERING	*005.167-022	HIGHWAY-ADMINISTRATIVE ENGINEER	6 5 6 OVER 10 YEARS
44.0401	PUBLIC ADMINISTRATION	*188.117-082	DIRECTOR, MEDICAL FACILITIES SECTION	5 5 5 FOUR TO TEN YEARS
		*188.117-102	ECONOMIC DEVELOPMENT COORDINATOR	5 4 5 FOUR TO TEN YEARS
44.0501	PUBLIC POLICY STUDIES	*188.117-102	ECONOMIC DEVELOPMENT COORDINATOR	5 4 5 FOUR TO TEN YEARS
44.0601	PUBLIC SANITATION	*188.117-030	COMMISSIONER, PUBLIC WORKS	5 5 5 FOUR TO TEN YEARS
		*188.167-098	SUPERINTENDENT, SANITATION	5 4 5 TWO TO FOUR YEARS

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OCCUPATION: 1135

PUBLIC FINANCE, TAXATION, AND OTHER MONETARY PROGRAM ADMINISTRATORS

These people are in charge of government agencies that set money and tax policies and collect, hold, and distribute funds. They direct programs such as vehicle licensing, tax and customs collection, and bonding. Depending upon the specific jobs, their work may range from interpreting laws and setting agency policies to planning public information campaigns. They also direct staff work and prepare reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	188.117-074	DIRECTOR, LICENSING AND REGISTRATIO	5	5 5	FOUR TO TEN YEARS
		188.117-090	DIRECTOR, REVENUE	6	5 5	FOUR TO TEN YEARS
		188.117-098	DISTRICT CUSTOMS DIRECTOR	5	5 5	FOUR TO TEN YEARS
		188.167-010	APPRAISER	5	5 5	TWO TO FOUR YEARS
		188.167-014	ASSESSOR-COLLECTOR, IRRIGATION TAX	5	5 5	FOUR TO TEN YEARS
		188.167-030	DIRECTOR, FINANCIAL RESPONSIBILITY	4	4 4	ONE TO TWO YEARS
		188.167-042	DIRECTOR, STATE-ASSESSED PROPERTIES	5	5 5	TWO TO FOUR YEARS
		188.167-046	DISTRICT CUSTOMS DIRECTOR, DEPUTY	5	5 5	TWO TO FOUR YEARS
44.0401	PUBLIC ADMINISTRATION	*188.117-074	DIRECTOR, LICENSING AND REGISTRATIO	5	5 5	FOUR TO TEN YEARS
		*188.117-090	DIRECTOR, REVENUE	6	5 5	FOUR TO TEN YEARS
		*188.117-098	DISTRICT CUSTOMS DIRECTOR	5	5 5	FOUR TO TEN YEARS

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OCCUPATION: 1139

OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION, N.E.C.

These people direct government agencies or departments that enforce government rules and regulations. Some direct programs for monitoring (overseeing) federal research contracts. Some direct agencies that control the sale of alcoholic drinks. Some direct programs to insure that official election procedures are followed. Duties of these workers vary widely, but may include: conducting investigations, providing information to the public, writing reports and letters, collecting data, and supervising staff.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	162.117-030	RESEARCH-CONTRACTS SUPERVISOR	6	5	5	FOUR TO TEN YEARS
		169.167-018	CONTACT REPRESENTATIVE	5	3	5	ONE TO TWO YEARS
		169.167-066	LEGISLATIVE ASSISTANT	5	3	5	TWO TO FOUR YEARS
		169.262-010	CASEWORKER	5	3	4	SIX TO 12 MONTHS
		186.117-022	DEPUTY INSURANCE COMMISSIONER	5	5	5	FOUR TO TEN YEARS
		188.117-034	DIRECTOR, AERONAUTICS COMMISSION	5	4	5	FOUR TO TEN YEARS
		188.117-038	DIRECTOR, AGRICULTURAL SERVICES	5	5	5	FOUR TO TEN YEARS
		188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
		188.167-022	DIRECTOR OF VITAL STATISTICS	5	5	5	FOUR TO TEN YEARS
		188.167-050	ELECTION ASSISTANT	5	3	4	TWO TO FOUR YEARS
		188.167-058	MANAGER, OFFICE	4	4	4	FOUR TO TEN YEARS
		188.167-082	SECRETARY OF STATE	5	4	5	FOUR TO TEN YEARS
		188.217-010	COMMISSIONER OF CONCILIATION	5	5	5	FOUR TO TEN YEARS
		195.167-042	ALCOHOL-AND-DRUG-ABUSE-ASSISTANCE P	5	3	5	TWO TO FOUR YEARS
03.0203	RESOURCES PROTECTION AND REGULATION	169.167-042	PARK RANGER	4	3	4	TWO TO FOUR YEARS
05.0101	AFRICAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0102	AMERICAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0103	ASIAN STUDIES, GENERAL	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0104	EAST ASIAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0105	EASTERN EUROPEAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0107	LATIN AMERICAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0108	MIDDLE EASTERN STUDIES	*188.117-106	FORLIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS
05.0109	PACIFIC AREA STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5	4	5	FOUR TO TEN YEARS

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OCCUPATION: 1139 OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION, (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
05.0110	RUSSIAN AND SLAVIC STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0111	SCANDANAVIAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0112	SOUTH ASIAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*188.117-106	FORFIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0114	WESTERN EUROPEAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0115	CANADIAN STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0204	ISLAMIC STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
05.0205	JEWISH STUDIES	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
06.0402	CONTRACT MANAGEMENT AND PROCUREMENT/PURC	*162.117-030	RESEARCH-CONTRACTS SUPERVISOR	6 5 5	FOUR TO TEN YEARS
06.0801	INSURANCE AND RISK MANAGEMENT	*186.117-022	DEPUTY INSURANCE COMMISSIONER	5 5 5	FOUR TO TEN YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*188.217-010	COMMISSIONER OF CONCILIATION	5 5 5	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	185.167-062	SUPERVISOR, LIQUOR STORES AND AGENC	5 4 4	FOUR TO TEN YEARS
08.0705	RETAILING	185.167-062	SUPERVISOR, LIQUOR STORES AND AGENC	5 4 4	FOUR TO TEN YEARS
08.0708	MARKETING, GENERAL	*185.167-062	SUPERVISOR, LIQUOR STORES AND AGENC	5 4 4	FOUR TO TEN YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROA	193.167-018	SUPERINTENDENT, RADIO COMMUNICATION	5 4 5	FOUR TO TEN YEARS
18.1107	PUBLIC HEALTH	*195.167-042	ALCOHOL-AND-DRUG-ABUSE-ASSISTANCE P	5 3 5	TWO TO FOUR YEARS
43.0107	LAW ENFORCEMENT	169.167-042	PARK RANGER	4 3 4	TWO TO FOUR YEARS
44.0301	INTERNATIONAL PUBLIC SERVICE	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5	FOUR TO TEN YEARS
44.0401	PUBLIC ADMINISTRATION	*188.117-038	DIRECTOR, AGRICULTURAL SERVICES	5 5 5	FOUR TO TEN YEARS
		*188.167-022	DIRECTOR OF VITAL STATISTICS	5 5 5	FOUR TO TEN YEARS
44.0501	PUBLIC POLICY STUDIES	*169.167-066	LEGISLATIVE ASSISTANT	5 3 5	TWO TO FOUR YEARS
44.0602	PUBLIC TRANSPORTATION	*188.117-034	DIRECTOR, AERONAUTICS COMMISSION	5 4 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1139 OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION, (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
45.0901	INTERNATIONAL RELATIONS	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5 FOUR TO TEN YEARS
45.1001	POLITICAL SCIENCE AND GOVERNMENT	*188.117-106	FOREIGN-SERVICE OFFICER	5 4 5 FOUR TO TEN YEARS

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OCCUPATION: 1200

OFFICIALS AND ADMINISTRATORS, OTHER

These workers plan and direct the activities and operations of businesses and industries, educational institutions, and service organizations. They establish goals, policies, and procedures. They oversee personnel and plan budgets. They study laws and regulations to insure conformance as well as write reports and confer with higher management and subordinates. They handle problems with operations, staff, clients, or customers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1210

GENERAL MANAGERS AND OTHER TOP EXECUTIVES

These people work as the heads of businesses, firms, agencies, and other organizations. They often are appointed. They plan, organize, direct, and control the major functions of the organization, through departmental managers and other executives, whom they direct. They set policies and goals, plan budgets, and select staff. These jobs include: EDUCATIONAL INSTITUTION PRESIDENT, HOSPITAL ADMINISTRATOR, DEPARTMENT STORE MANAGER, FINANCIAL INSTITUTION PRESIDENT, and other top management positions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M L	
00.0000 NO CIP ASSIGNED	090.117-034 PRESIDENT, EDUCATIONAL INSTITUTION	5 3 5	OVER 10 YEARS
	099.117-022 SUPERINTENDENT, SCHOOLS	5 3 5	OVER 10 YEARS
	186.117-054 PRESIDENT, FINANCIAL INSTITUTION	6 5 5	OVER 10 YEARS
	187.117-010 ADMINISTRATOR, HOSPITAL	5 5 5	FOUR TO TEN YEARS
	187.117-018 DIRECTOR, INSTITUTION	6 5 5	FOUR TO TEN YEARS
	189.117-022 MANAGER, INDUSTRIAL ORGANIZATION	5 5 5	FOUR TO TEN YEARS
	189.117-026 PRESIDENT	5 5 5	OVER 10 YEARS
	189.117-034 VICE PRESIDENT	5 4 5	FOUR TO TEN YEARS
06.0301 BANKING AND FINANCE	*186.117-034 MANAGER, BROKERAGE OFFICE	5 5 5	FOUR TO TEN YEARS
	*186.117-054 PRESIDENT, FINANCIAL INSTITUTION	6 5 5	OVER 10 YEARS
06.0403 PRODUCT MANAGEMENT	*189.117-022 MANAGER, INDUSTRIAL ORGANIZATION	5 5 5	FOUR TO TEN YEARS
06.0705 TRANSPORTATION MANAGEMENT	184.117-014 DIRECTOR, TRANSPORTATION	5 5 5	FOUR TO TEN YEARS
06.1001 INVESTMENTS AND SECURITIES	*186.117-034 MANAGER, BROKERAGE OFFICE	5 5 5	FOUR TO TEN YEARS
06.1401 MARKETING MANAGEMENT	185.117-010 MANAGER, DEPARTMENT STORE	5 4 5	FOUR TO TEN YEARS
	186.117-034 MANAGER, BROKERAGE OFFICE	5 5 5	FOUR TO TEN YEARS
07.0401 OFFICE SUPERVISION AND MANAGEMENT	186.117-034 MANAGER, BROKERAGE OFFICE	5 5 5	FOUR TO TEN YEARS
08.0401 FINANCIAL SERVICES MARKETING	186.117-034 MANAGER, BROKERAGE OFFICE	5 5 5	FOUR TO TEN YEARS
08.0705 RETAILING	185.117-010 MANAGER, DEPARTMENT STORE	5 4 5	FOUR TO TEN YEARS
08.0708 MARKETING, GENERAL	*185.117-010 MANAGER, DEPARTMENT STORE	5 4 5	FOUR TO TEN YEARS
13.0404 EDUCATIONAL SUPERVISION	*099.117-022 SUPERINTENDENT, SCHOOLS	5 3 5	OVER 10 YEARS
13.0405 ELEMENTARY AND SECONDARY EDUCATION ADMIN	*099.117-022 SUPERINTENDENT, SCHOOLS	5 3 5	OVER 10 YEARS
13.0406 HIGHER EDUCATION ADMINISTRATION	*090.117-034 PRESIDENT, EDUCATIONAL INSTITUTION	5 3 5	OVER 10 YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1210 GENERAL MANAGERS AND OTHER TOP EXECUTIVES (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
13.0407	COMMUNITY COLLEGE EDUCATION ADMINISTRATI	*090.117-034	PRESIDENT, EDUCATIONAL INSTITUTION	5	3 5 OVER 10 YEARS
18.0701	HEALTH SERVICES ADMINISTRATION	*187.117-010	ADMINISTRATOR, HOSPITAL	5	5 5 FOUR TO TEN YEARS
18.0702	HEALTH CARE PLANNING	*187.117-010	ADMINISTRATOR, HOSPITAL	5	5 5 FOUR TO TEN YEARS
43.0101	CORRECTIONAL ADMINISTRATION	*187.117-018	DIRECTOR, INSTITUTION	6	5 5 FOUR TO TEN YEARS
44.0602	PUBLIC TRANSPORTATION	*184.117-014	DIRECTOR, TRANSPORTATION	5	5 5 FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1220

FINANCIAL MANAGERS

FINANCIAL MANAGERS are in charge of departments that handle money earned and spent by companies or government agencies. They help companies and agencies use their money wisely. Generally, their work duties include interpreting financial policies and laws, directing staff, and preparing financial reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	161.117-018	TREASURER	5 5 5	FOUR TO TEN YEARS
		186.117-014	CONTROLLER	5 5 4	FOUR TO TEN YEARS
		186.117-070	TREASURER, FINANCIAL INSTITUTION	5 5 5	OVER 10 YEARS
		186.117-078	VICE PRESIDENT, FINANCIAL INSTITUTI	5 5 5	FOUR TO TEN YEARS
06.0301	BANKING AND FINANCE	*186.117-038	MANAGER, FINANCIAL INSTITUTION	5 4 4	FOUR TO TEN YEARS
		*186.117-070	TREASURER, FINANCIAL INSTITUTION	5 5 5	OVER 10 YEARS
		*186.117-078	VICE PRESIDENT, FINANCIAL INSTITUTI	5 5 5	FOUR TO TEN YEARS
		*186.167-022	MANAGER, CREDIT CARD OPERATIONS	5 5 5	FOUR TO TEN YEARS
		*186.167-026	MANAGER, CREDIT UNION	5 5 5	TWO TO FOUR YEARS
		*186.167-054	RESERVE OFFICER	5 5 4	OVER 10 YEARS
06.0501	BUSINESS ECONOMICS	*161.117-018	TREASURER	5 5 5	FOUR TO TEN YEARS
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*161.117-018	TREASURER	5 5 5	FOUR TO TEN YEARS
		*186.117-014	CONTROLLER	5 5 4	FOUR TO TEN YEARS
		*186.117-038	MANAGER, FINANCIAL INSTITUTION	5 4 4	FOUR TO TEN YEARS
06.1001	INVESTMENTS AND SECURITIES	*161.117-018	TREASURER	5 5 5	FOUR TO TEN YEARS
		*186.117-038	MANAGER, FINANCIAL INSTITUTION	5 4 4	FOUR TO TEN YEARS
		*186.117-070	TREASURER, FINANCIAL INSTITUTION	5 5 5	OVER 10 YEARS
		*186.167-054	RESERVE OFFICER	5 5 4	OVER 10 YEARS
06.1401	MARKETING MANAGEMENT	186.117-014	CONTROLLER	5 5 4	FOUR TO TEN YEARS
		186.117-038	MANAGER, FINANCIAL INSTITUTION	5 4 4	FOUR TO TEN YEARS
		186.167-022	MANAGER, CREDIT CARD OPERATIONS	5 5 5	FOUR TO TEN YEARS
		186.167-026	MANAGER, CREDIT UNION	5 5 5	TWO TO FOUR YEARS
		186.167-054	RESERVE OFFICER	5 5 4	OVER 10 YEARS
06.1901	TAXATION	*161.117-018	TREASURER	5 5 5	FOUR TO TEN YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	186.117-038	MANAGER, FINANCIAL INSTITUTION	5 4 4	FOUR TO TEN YEARS
08.0401	FINANCIAL SERVICES MARKETING	186.117-038	MANAGER, FINANCIAL INSTITUTION	5 4 4	FOUR TO TEN YEARS
		186.167-022	MANAGER, CREDIT CARD OPERATIONS	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1220 FINANCIAL MANAGERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		186.167-026	MANAGER, CREDIT UNION	5 5 5	TWO TO FOUR YEARS
		186.167-054	RESERVE OFFICER	5 5 4	OVER 10 YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1230

PERSONNEL AND LABOR RELATIONS MANAGERS

These people manage programs concerned with the employment and treatment of workers. They set company policy on the employment, pay and training of workers. They see to it that workers are informed of their employment rights and benefits. Some plan and direct employee relations, benefits, training, or staff development programs. Some manage a company safety, insurance, or pension program. Some direct a personnel office. These workers supervise staff, keep records, and compile management and government reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	166.117-010	DIRECTOR, INDUSTRIAL RELATIONS	5	5	5	FOUR TO TEN YEARS
06.0601	HUMAN RESOURCES DEVELOPMENT	*166.117-010	DIRECTOR, INDUSTRIAL RELATIONS	5	5	5	FOUR TO TEN YEARS
		*166.117-018	MANAGER, PERSONNEL	5	5	5	FOUR TO TEN YEARS
		*166.167-026	MANAGER, EDUCATION AND TRAINING	6	5	5	TWO TO FOUR YEARS
		*166.167-030	MANAGER, EMPLOYMENT	5	4	5	FOUR TO TEN YEARS
		*166.167-050	PROGRAM SPECIALIST, EMPLOYEE-HEALTH	5	3	5	ONE TO TWO YEARS
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*166.117-010	DIRECTOR, INDUSTRIAL RELATIONS	5	5	5	FOUR TO TEN YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*166.117-010	DIRECTOR, INDUSTRIAL RELATIONS	5	5	5	FOUR TO TEN YEARS
		*166.117-018	MANAGER, PERSONNEL	5	5	5	FOUR TO TEN YEARS
		*166.167-018	MANAGER, BENEFITS	4	4	4	TWO TO FOUR YEARS
		*166.167-030	MANAGER, EMPLOYMENT	5	4	5	FOUR TO TEN YEARS
		*166.167-050	PROGRAM SPECIALIST, EMPLOYEE-HEALTH	5	3	5	ONE TO TWO YEARS
06.1501	ORGANIZATIONAL BEHAVIOR	*166.117-010	DIRECTOR, INDUSTRIAL RELATIONS	5	5	5	FOUR TO TEN YEARS
06.1601	PERSONNEL MANAGEMENT	*166.117-018	MANAGER, PERSONNEL	5	5	5	FOUR TO TEN YEARS
		*166.167-018	MANAGER, BENEFITS	4	4	4	TWO TO FOUR YEARS
		*166.167-030	MANAGER, EMPLOYMENT	5	4	5	FOUR TO TEN YEARS
		*166.167-050	PROGRAM SPECIALIST, EMPLOYEE-HEALTH	5	3	5	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	166.167-026	MANAGER, EDUCATION AND TRAINING	6	5	5	TWO TO FOUR YEARS
07.0502	TRAINING ASSISTING	166.167-026	MANAGER, EDUCATION AND TRAINING	6	5	5	TWO TO FOUR YEARS
07.0503	PERSONNEL ASSISTING	166.117-018	MANAGER, PERSONNEL	5	5	5	FOUR TO TEN YEARS
		166.167-018	MANAGER, BENEFITS	4	4	4	TWO TO FOUR YEARS
		166.167-030	MANAGER, EMPLOYMENT	5	4	5	FOUR TO TEN YEARS
17.0401	ALCOHOL/DRUG ABUSE SPECIALTY	166.167-050	PROGRAM SPECIALIST, EMPLOYEE-HEALTH	5	3	5	ONE TO TWO YEARS

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OCCUPATION: 1240

PURCHASING MANAGERS

PURCHASING MANAGERS plan and coordinate buying activities for a store or company. They supervise the work of buyers, purchasing officers, and other workers who order and buy materials, products, or services needed by the store or company. These items may be needed for operations in a business or as merchandise to be resold in a store. PURCHASING MANAGERS also review purchase orders and requests, decide the amount of goods to be stocked, set prices for goods, and set up contracts with supply houses.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M L	
00.0000 NO CIP ASSIGNED	162.167-022 MANAGER, PROCUREMENT SERVICES	4 4 4	TWO TO FOUR YEARS
06.0402 CONTRACT MANAGEMENT AND PROCUREMENT/PURC	*162.167-022 MANAGER, PROCUREMENT SERVICES	4 4 4	TWO TO FOUR YEARS
06.0705 TRANSPORTATION MANAGEMENT	184.117-078 SUPERINTENDENT, COMMISSARY	5 4 4	FOUR TO TEN YEARS
06.1401 MARKETING MANAGEMENT	162.167-022 MANAGER, PROCUREMENT SERVICES	4 4 4	TWO TO FOUR YEARS
	185.167-034 MANAGER, MERCHANDISE	4 3 4	TWO TO FOUR YEARS
08.0704 PURCHASING	162.167-022 MANAGER, PROCUREMENT SERVICES	4 4 4	TWO TO FOUR YEARS
08.0705 RETAILING	185.167-034 MANAGER, MERCHANDISE	4 3 4	TWO TO FOUR YEARS
08.0707 WHOLESALING	185.167-034 MANAGER, MERCHANDISE	4 3 4	TWO TO FOUR YEARS
08.0708 MARKETING, GENERAL	*185.167-034 MANAGER, MERCHANDISE	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 1250

MANAGERS: MARKETING, ADVERTISING, AND PUBLIC RELATIONS

People in these jobs manage marketing, sales, advertising, or public relations departments in businesses and other organizations. They develop policies and programs for promoting the sale of a firm's products or services. They plan, organize, and direct departmental activities; train, supervise, and evaluate staff; and deal with business and other groups to promote sales. They study sales records and prepare progress reports. They may plan and direct advertising or sales campaigns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M I	
06.0701	HOTEL/MOTEL MANAGEMENT	163.117-018	MANAGER, PROMOTION	5	3 4	FOUR TO TEN YEARS
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*163.117-014	MANAGER, EXPORT	5	5 5	FOUR TO TEN YEARS
		*163.167-018	MANAGER, SALES	5	3 5	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	163.117-014	MANAGER, EXPORT	5	5 5	FOUR TO TEN YEARS
		163.117-018	MANAGER, PROMOTION	5	3 4	FOUR TO TEN YEARS
		163.167-010	MANAGER, ADVERTISING	5	3 5	FOUR TO TEN YEARS
		163.167-018	MANAGER, SALES	5	3 5	FOUR TO TEN YEARS
		163.167-022	MANAGER, UTILITY SALES AND SERVICE	5	4 4	FOUR TO TEN YEARS
		163.267-010	FIELD REPRESENTATIVE	5	4 3	ONE TO TWO YEARS
		164.117-010	MANAGER, ADVERTISING	6	5 5	FOUR TO TEN YEARS
		164.117-014	MANAGER, ADVERTISING AGENCY	5	3 4	FOUR TO TEN YEARS
		185.157-010	FASHION COORDINATOR	5	4 5	TWO TO FOUR YEARS
		185.157-014	SUPERVISOR OF SALES	4	4 4	TWO TO FOUR YEARS
		187.167-162	MANAGER, VEHICLE LEASING AND RENTAL	5	4 4	FOUR TO TEN YEARS
		189.117-018	MANAGER, CUSTOMER TECHNICAL SERVICE	5	4 4	FOUR TO TEN YEARS
06.1402	MARKETING RESEARCH	189.117-018	MANAGER, CUSTOMER TECHNICAL SERVICE	5	4 4	FOUR TO TEN YEARS
08.0102	FASHION MERCHANDISING	185.157-010	FASHION COORDINATOR	5	4 5	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	163.167-022	MANAGER, UTILITY SALES AND SERVICE	5	4 4	FOUR TO TEN YEARS
		163.267-010	FIELD REPRESENTATIVE	5	4 3	ONE TO TWO YEARS
		185.157-014	SUPERVISOR OF SALES	4	4 4	TWO TO FOUR YEARS
08.0702	INDUSTRIAL SALES	189.117-018	MANAGER, CUSTOMER TECHNICAL SERVICE	5	4 4	FOUR TO TEN YEARS
08.0703	INTERNATIONAL MARKETING	163.117-014	MANAGER, EXPORT	5	5 5	FOUR TO TEN YEARS
08.0706	SALES	164.167-010	ACCOUNT EXECUTIVE	5	3 4	FOUR TO TEN YEARS
08.0707	WHOLESALE	163.167-018	MANAGER, SALES	5	3 5	FOUR TO TEN YEARS
08.0708	MARKETING, GENERAL	*163.167-018	MANAGER, SALES	5	3 5	FOUR TO TEN YEARS

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OCCUPATION: 1250 MANAGERS; MARKETING, ADVERTISING, AND PUBLIC RELATI (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
	*185.157-010 FASHION COORDINATOR	5 4 5	TWO TO FOUR YEARS
	*185.157-014 SUPERVISOR OF SALES	4 4 4	TWO TO FOUR YEARS
08.0902 MARKETING OF HOTEL/MOTEL SERVICES	163.117-018 MANAGER, PROMOTION	5 3 4	FOUR TO TEN YEARS
08.1203 AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	163.267-010 FIELD REPRESENTATIVE	5 4 3	ONE TO TWO YEARS
08.1207 VEHICLE RENTAL AND LEASING	187.167-162 MANAGER, VEHICLE LEASING AND RENTAL	5 4 4	FOUR TO TEN YEARS
09.0201 ADVERTISING	163.167-010 MANAGER, ADVERTISING	5 3 5	FOUR TO TEN YEARS
	164.117-010 MANAGER, ADVERTISING	6 5 5	FOUR TO TEN YEARS
	164.117-014 MANAGER, ADVERTISING AGENCY	5 3 4	FOUR TO TEN YEARS
	164.117-018 MEDIA DIRECTOR	5 4 5	FOUR TO TEN YEARS
	164.167-010 ACCOUNT EXECUTIVE	5 3 4	FOUR TO TEN YEARS
09.0501 PUBLIC RELATIONS	*163.117-018 MANAGER, PROMOTION	5 3 4	FOUR TO TEN YEARS
	*163.167-010 MANAGER, ADVERTISING	5 3 5	FOUR TO TEN YEARS
	*164.117-010 MANAGER, ADVERTISING	6 5 5	FOUR TO TEN YEARS
	*164.117-014 MANAGER, ADVERTISING AGENCY	5 3 4	FOUR TO TEN YEARS
	*164.167-010 ACCOUNT EXECUTIVE	5 3 4	FOUR TO TEN YEARS
20.0306 FASHION/FABRIC COORDINATION	185.157-010 FASHION COORDINATOR	5 4 5	TWO TO FOUR YEARS
20.0308 WEDDING/SPECIALTY CONSULTING	185.157-010 FASHION COORDINATOR	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 1260

MANAGERS: ENGINEERING, MATHEMATICS, AND NATURAL SCIENCE
 These MANAGERS direct research and development programs. They may work in industry, business, education, science, or a related area. They plan projects; assign, schedule, and review project work; and interpret policies and goals to staff. They consult with management to set research or production goals, and then develop methods and procedures to achieve those goals. They supervise projects and prepare reports for management. They also may direct the training of project staff.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
06.1401	MARKETING MANAGEMENT	189.117-014	DIRECTOR, RESEARCH AND DEVELOPMENT	5 5 5	FOUR TO TEN YEARS
06.1402	MARKETING RESEARCH	189.117-014	DIRECTOR, RESEARCH AND DEVELOPMENT	5 5 5	FOUR TO TEN YEARS
06.2101	COMPUTER INSTALLATION MANAGEMENT	169.167-030	MANAGER, ELECTRONIC DATA PROCESSING	6 5 5	FOUR TO TEN YEARS
07.0305	BUSINESS DATA PROGRAMMING	169.167-030	MANAGER, ELECTRONIC DATA PROCESSING	6 5 5	FOUR TO TEN YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	169.167-030	MANAGER, ELECTRONIC DATA PROCESSING	6 5 5	FOUR TO TEN YEARS
08.0708	MARKETING, GENERAL	*189.117-014	DIRECTOR, RESEARCH AND DEVELOPMENT	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1270

MANAGERS: SOCIAL SCIENCES AND RELATED FIELDS

These people plan, develop, and direct programs designed to help meet a community's needs for health, welfare, and social support services. Some direct programs to raise funds for an agency or organization. Some direct programs to coordinate the work of health and welfare programs. Some set up and direct service organizations for youth. Some direct a sheltered workshop to give handicapped people on-the-job training. Some direct programs to recruit, train, and place volunteer workers. Some manage centers that provide housing and care for the very needy.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	165.117-010	DIRECTOR, FUNDRAISING	5	4	5 FOUR TO TEN YEARS
		187.117-022	DISTRICT ADVISER	5	4	5 FOUR TO TEN YEARS
		187.117-026	EXECUTIVE DIRECTOR, SHELTERED WORKS	5	4	4 FOUR TO TEN YEARS
		187.134-010	SUPERVISOR, CONTRACT-SHELTERED WORK	3	2	2 TWO TO FOUR YEARS
		187.167-038	DIRECTOR, VOLUNTEER SERVICES	5	4	4 TWO TO FOUR YEARS
		195.167-038	REHABILITATION CENTER MANAGER	5	4	5 TWO TO FOUR YEARS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	187.117-046	PROGRAM DIRECTOR, GROUP WORK	5	5	5 FOUR TO TEN YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*187.134-010	SUPERVISOR, CONTRACT-SHELTERED WORK	3	2	2 TWO TO FOUR YEARS
13.1320	TRADE AND INDUSTRIAL EDUCATION	*187.117-026	EXECUTIVE DIRECTOR, SHELTERED WORKS	5	4	4 FOUR TO TEN YEARS
20.0203	CHILD CARE MANAGEMENT	187.117-014	DIRECTOR, COMMUNITY ORGANIZATION	5	5	5 FOUR TO TEN YEARS
		187.117-046	PROGRAM DIRECTOR, GROUP WORK	5	5	5 FOUR TO TEN YEARS
		195.117-010	ADMINISTRATOR, SOCIAL WELFARE	6	3	6 FOUR TO TEN YEARS
42.0401	COMMUNITY PSYCHOLOGY	*187.117-014	DIRECTOR, COMMUNITY ORGANIZATION	5	5	5 FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1280

ADMINISTRATORS: EDUCATION AND RELATED FIELDS

These workers administer programs in elementary, secondary, and post-secondary educational institutions. They establish educational and counseling objectives, formulate policies, select and assign staff, and prepare budgets. They insure that educational and counseling activities meet appropriate state, local, or national standards. They also plan classes and programs, and may enforce school rules, counsel students and teachers, and order supplies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1281

ADMINISTRATORS: COLLEGES AND UNIVERSITIES

These people plan, organize, and direct activities and programs in a college or university. They work as deans or as directors of admissions, athletics, alumni, or other departments. They establish policies, programs, and standards for the departments they represent. They select and supervise staff, prepare budgets and schedules, and evaluate programs and services. They hold departmental meetings and advise on matters related to their assigned areas. They also take part in school functions and promote good public relations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	090.117-010	ACADEMIC DEAN	5 3 5	OVER 10 YEARS
		090.117-014	ALUMNI SECRETARY	5 3 5	FOUR TO TEN YEARS
		090.117-018	DEAN OF STUDENTS 1	5 3 5	FOUR TO TEN YEARS
		090.117-022	DIRECTOR, ATHLETIC	5 3 5	OVER 10 YEARS
		090.117-026	DIRECTOR, EXTENSION WORK	6 3 5	OVER 10 YEARS
		090.117-030	FINANCIAL-AIDS OFFICER	5 3 5	FOUR TO TEN YEARS
		090.167-014	DIRECTOR OF ADMISSIONS	5 3 5	FOUR TO TEN YEARS
		090.167-018	DIRECTOR OF INSTITUTIONAL RESEARCH	6 5 5	FOUR TO TEN YEARS
		090.167-022	DIRECTOR OF STUDENT AFFAIRS	5 3 5	FOUR TO TEN YEARS
		090.167-026	DIRECTOR, SUMMER SESSIONS	5 3 5	OVER 10 YEARS
		090.167-030	REGISTRAR, COLLEGE OR UNIVERSITY	5 5 5	FOUR TO TEN YEARS
		186.117-010	BUSINESS MANAGER, COLLEGE OR UNIVER	5 5 5	FOUR TO TEN YEARS
13.0301	CURRICULUM AND INSTRUCTION	*090.117-010	ACADEMIC DEAN	5 3 5	OVER 10 YEARS
		*090.117-018	DEAN OF STUDENTS 1	5 3 5	FOUR TO TEN YEARS
		*090.167-026	DIRECTOR, SUMMER SESSIONS	5 3 5	OVER 10 YEARS
13.0403	ADULT AND CONTINUING EDUCATION ADMINISTR	*090.117-010	ACADEMIC DEAN	5 3 5	OVER 10 YEARS
		*090.117-018	DEAN OF STUDENTS 1	5 3 5	FOUR TO TEN YEARS
		*090.117-026	DIRECTOR, EXTENSION WORK	6 3 5	OVER 10 YEARS
13.0404	EDUCATIONAL SUPERVISION	*090.117-010	ACADEMIC DEAN	5 3 5	OVER 10 YEARS
		*090.117-018	DEAN OF STUDENTS 1	5 3 5	FOUR TO TEN YEARS
		*090.167-026	DIRECTOR, SUMMER SESSIONS	5 3 5	OVER 10 YEARS
13.0406	HIGHER EDUCATION ADMINISTRATION	*090.117-010	ACADEMIC DEAN	5 3 5	OVER 10 YEARS
		*090.117-018	DEAN OF STUDENTS 1	5 3 5	FOUR TO TEN YEARS
		*090.117-022	DIRECTOR, ATHLETIC	5 3 5	OVER 10 YEARS
		*090.117-030	FINANCIAL-AIDS OFFICER	5 3 5	FOUR TO TEN YEARS
		*090.167-014	DIRECTOR OF ADMISSIONS	5 3 5	FOUR TO TEN YEARS
		*090.167-018	DIRECTOR OF INSTITUTIONAL RESEARCH	6 5 5	FOUR TO TEN YEARS
		*090.167-022	DIRECTOR OF STUDENT AFFAIRS	5 3 5	FOUR TO TEN YEARS
		*090.167-026	DIRECTOR, SUMMER SESSIONS	5 3 5	OVER 10 YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1281 ADMINISTRATORS; COLLEGES AND UNIVERSITIES (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*090.167-030	REGISTRAR, COLLEGE OR UNIVERSITY	5 5 5	FOUR TO TEN YEARS
		*186.117-010	BUSINESS MANAGER, COLLEGE OR UNIVER	5 5 5	FOUR TO TEN YEARS
13.0407	COMMUNITY COLLEGE EDUCATION ADMINISTRATI	*090.117-010	ACADEMIC DEAN	5 3 5	OVER 10 YEARS
		*090.117-018	DEAN OF STUDENTS 1	5 3 5	FOUR TO TEN YEARS
		*090.117-030	FINANCIAL-AIDS OFFICER	5 3 5	FOUR TO TEN YEARS
		*090.167-014	DIRECTOR OF ADMISSIONS	5 3 5	FOUR TO TEN YEARS
		*090.167-018	DIRECTOR OF INSTITUTIONAL RESEARCH	6 5 5	FOUR TO TEN YEARS
		*090.157-022	DIRECTOR OF STUDENT AFFAIRS	5 3 5	FOUR TO TEN YEARS
		*090.167-026	DIRECTOR, SUMMER SESSIONS	5 3 5	OVER 10 YEARS
		*090.167-030	REGISTRAR, COLLEGE OR UNIVERSITY	5 5 5	FOUR TO TEN YEARS
		*186.117-010	BUSINESS MANAGER, COLLEGE OR UNIVER	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1282

ADMINISTRATORS: ELEMENTARY AND SECONDARY EDUCATION

These people work as PRINCIPALS, ASSISTANT PRINCIPALS, or DEANS in public and private grade schools and high schools. They direct educational, administrative, and counseling activities and see to it that school programs meet state and school board standards. They plan school programs, enforce school rules, assign teachers and pupils to classes and counsel students on personal and academic matters. They also order school supplies and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	091.107-010	DEAN OF STUDENTS 2	5 3 5	FOUR TO TEN YEARS
		099.117-018	PRINCIPAL	5 3 5	FOUR TO TEN YEARS
13.0301	CURRICULUM AND INSTRUCTION	*091.107-010	DEAN OF STUDENTS 2	5 3 5	FOUR TO TEN YEARS
		*099.117-018	PRINCIPAL	5 3 5	FOUR TO TEN YEARS
13.0403	ADULT AND CONTINUING EDUCATION ADMINISTR	*091.107-010	DEAN OF STUDENTS 2	5 3 5	FOUR TO TEN YEARS
13.0404	EDUCATIONAL SUPERVISION	*091.107-010	DEAN OF STUDENTS 2	5 3 5	FOUR TO TEN YEARS
		*099.117-018	PRINCIPAL	5 3 5	FOUR TO TEN YEARS
13.0405	ELEMENTARY AND SECONDARY EDUCATION ADMIN	*091.107-010	DEAN OF STUDENTS 2	5 3 5	FOUR TO TEN YEARS
		*099.117-018	PRINCIPAL	5 3 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1283

ADMINISTRATORS: EDUCATION AND RELATED FIELDS, N.E.C.

These people plan and direct educational programs for places such as health agencies, day care centers, prisons, libraries and private companies. They organize educational programs, interpret policies and programs to teachers and other staff, and advise on teaching methods and practices. They prepare budgets, approve purchases, and conduct surveys to see that policies and procedures are being followed. They may plan courses, prepare teaching materials, and provide training. They also keep records and write reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	075.117-010	CONSULTANT, EDUCATIONAL, STATE BOAR	5	4 5	FOUR TO TEN YEARS
		075.117-018	DIRECTOR, EDUCATIONAL, COMMUNITY-HE	5	4 5	FOUR TO TEN YEARS
		094.117-010	DIRECTOR, COMMISSION FOR THE BLIND	5	4 5	FOUR TO TEN YEARS
		094.117-014	DIRECTOR, SPECIAL EDUCATION	6	5 5	OVER 10 YEARS
		096.167-014	SPECIALIST-IN-CHARGE, EXTENSION SER	5	3 5	FOUR TO TEN YEARS
		097.167-010	DIRECTOR, VOCATIONAL TRAINING	5	3 5	FOUR TO TEN YEARS
		099.117-014	EDUCATION SUPERVISOR, CORRECTICNAL	5	3 5	FOUR TO TEN YEARS
		099.117-030	DIRECTOR, EDUCATION	5	4 5	TWO TO FOUR YEARS
		099.167-030	EDUCATIONAL RESOURCE COORDINATOR	5	2 5	TWO TO FOUR YEARS
		100.117-010	LIBRARY DIRECTOR	6	4 5	FOUR TO TEN YEARS
		169.267-022	SECRETARY, BOARD-OF-EDUCATION	5	5 5	TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	239.137-010	COMMERCIAL-INSTRUCTOR SUPERVISOR	4	3 4	FOUR TO TEN YEARS
07.0503	PERSONNEL ASSISTING	239.137-010	COMMERCIAL-INSTRUCTOR SUPERVISOR	4	3 4	FOUR TO TEN YEARS
13.0301	CURRICJLUM AND INSTRUCTION	*094.117-014	DIRECTOR, SPECIAL EDUCATION	6	5 5	OVER 10 YEARS
		*097.167-010	DIRECTOR, VOCATIONAL TRAINING	5	3 5	FOUR TO TEN YEARS
		*099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5	3 5	FOUR TO TEN YEARS
		*099.117-014	EDUCATION SUPERVISOR, CORRECTIONAL	5	3 5	FOUR TO TEN YEARS
		*099.117-026	SUPERVISOR, EDUCATION	5	3 5	FOUR TO TEN YEARS
13.0402	ADMINISTRATION OF SPECIAL EDUCATION	*094.117-014	DIRECTOR, SPECIAL EDUCATION	6	5 5	OVER 10 YEARS
13.0403	ADULT AND CONTINUING EDUCATION ADMINISTR	*097.167-010	DIRECTOR, VOCATIONAL TRAINING	5	3 5	FOUR TO TEN YEARS
		*099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5	3 5	FOUR TO TEN YEARS
13.0404	EDUCATIONAL SUPERVISION	*094.117-014	DIRECTOR, SPECIAL EDUCATION	6	5 5	OVER 10 YEARS
		*097.167-010	DIRECTOR, VOCATIONAL TRAINING	5	3 5	FOUR TO TEN YEARS
		*099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5	3 5	FOUR TO TEN YEARS
		*099.117-014	EDUCATION SUPERVISOR, CORRECTIONAL	5	3 5	FOUR TO TEN YEARS
		*099.117-026	SUPERVISOR, EDUCATION	5	3 5	FOUR TO TEN YEARS
13.0405	ELEMENTARY AND SECONDARY EDUCATION ADMIN	*099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5	3 5	FOUR TO TEN YEARS

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OCCUPATION: 1283 ADMINISTRATORS; EDUCATION AND RELATED FIELDS, NOT E (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*099.117-026	SUPERVISOR, EDUCATION	5 3 5	FOUR TO TEN YEARS
		*169.267-022	SECRETARY, BOARD-OF-EDUCATION	5 5 5	TWO TO FOUR YEARS
13.0406	HIGHER EDUCATION ADMINISTRATION	*099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5 3 5	FOUR TO TEN YEARS
13.0407	COMMUNITY COLLEGE EDUCATION ADMINISTRATI	*099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5 3 5	FOUR TO TEN YEARS
13.1009	EDUCATION OF THE VISUALLY HANDICAPPED	*094.117-010	DIRECTOR, COMMISSION FOR THE BLIND	5 4 5	FOUR TO TEN YEARS
13.1301	AGRICULTURAL EDUCATION	*096.167-014	SPECIALIST-IN-CHARGE, EXTENSION SER	5 3 5	FOUR TO TEN YEARS
13.1308	HOME ECONOMICS EDUCATION	*096.161-010	HOME-SERVICE DIRECTOR	5 3 5	FOUR TO TEN YEARS
18.1105	NURSING ADMINISTRATION	*075.117-010	CONSULTANT, EDUCATIONAL, STATE BOAR	5 4 5	FOUR TO TEN YEARS
		*075.117-018	DIRECTOR, EDUCATIONAL, COMMUNITY-HE	5 4 5	FOUR TO TEN YEARS
19.0201	BUSINESS HOME ECONOMICS	*096.161-010	HOME-SERVICE DIRECTOR	5 3 5	FOUR TO TEN YEARS
		*096.167-014	SPECIALIST-IN-CHARGE, EXTENSION SER	5 3 5	FOUR TO TEN YEARS
19.0402	CONSUMER SCIENCE	*096.161-010	HOME-SERVICE DIRECTOR	5 3 5	FOUR TO TEN YEARS
		*096.167-014	SPECIALIST-IN-CHARGE, EXTENSION SER	5 3 5	FOUR TO TEN YEARS
20.0203	CHILD CARE MANAGEMENT	092.137-010	DIRECTOR, PRESCHOOL	4 3 4	TWO TO FOUR YEARS
		099.117-010	DIRECTOR, EDUCATIONAL PROGRAM	5 3 5	FOUR TO TEN YEARS
		099.117-026	SUPERVISOR, EDUCATION	5 3 5	FOUR TO TEN YEARS
20.0507	HOME-SERVICE ASSISTING	096.161-010	HOME-SERVICE DIRECTOR	5 3 5	FOUR TO TEN YEARS
23.1201	ENGLISH AS A SECOND LANGUAGE	*099.117-026	SUPERVISOR, EDUCATION	5 3 5	FOUR TO TEN YEARS
25.0401	LIBRARY SCIENCE	*100.117-010	LIBRARY DIRECTOR	6 4 5	FOUR TO TEN YEARS
25.0501	MUSEOLOGY	*099.167-030	EDUCATIONAL RESOURCE COORDINATOR	5 2 5	TWO TO FOUR YEARS
50.0703	ART HISTORY AND APPRECIATION	*099.117-030	DIRECTOR, EDUCATION	5 4 5	TWO TO FOUR YEARS
		*099.167-030	EDUCATIONAL RFSOURCE COORDINATOR	5 2 5	TWO TO FOUR YEARS

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OCCUPATION: 1310

MANAGERS: MEDICINE AND HEALTH

These people are in charge of medical and health services in hospitals, clinics, businesses, or schools. Some direct the nursing services of a community health agency, hospital, or industrial firm. Some are in charge of the educational program of a nursing school or direct the medical records system of a hospital. Some administer a medical emergency service program. These MANAGERS prepare budgets, hire staff, plan and direct health care services, keep records, prepare reports, and evaluate medical services and staff.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	075.117-014	DIRECTOR, COMMUNITY-HEALTH NURSING	5 4 5	FOUR TO TEN YEARS
		075.117-022	DIRECTOR, NURSING SERVICE	5 4 5	FOUR TO TEN YEARS
		075.117-026	DIRECTOR, OCCUPATIONAL HEALTH NURSI	5 4 5	FOUR TO TEN YEARS
		075.117-030	DIRECTOR, SCHOOL OF NURSING	5 4 5	FOUR TO TEN YEARS
		079.117-010	EMERGENCY MEDICAL SERVICES COORDINA	4 4 4	FOUR TO TEN YEARS
		079.131-010	DIRECTOR, SPEECH-AND-HEARING	6 5 5	FOUR TO TEN YEARS
		079.137-010	UTILIZATION-REVIEW COORDINATOR	5 4 5	TWO TO FOUR YEARS
		079.167-014	MEDICAL-RECORD ADMINISTRATOR	6 5 6	FOUR TO TEN YEARS
		187.117-058	DIRECTOR, OUTPATIENT SERVICES	6 5 6	FOUR TO TEN YEARS
13.0406	HIGHER EDUCATION ADMINISTRATION	*075.117-030	DIRECTOR, SCHOOL OF NURSING	5 4 5	FOUR TO TEN YEARS
18.0701	HEALTH SERVICES ADMINISTRATION	*075.117-014	DIRECTOR, COMMUNITY-HEALTH NURSING	5 4 5	FOUR TO TEN YEARS
		*075.117-022	DIRECTOR, NURSING SERVICE	5 4 5	FOUR TO TEN YEARS
		*075.117-026	DIRECTOR, OCCUPATIONAL HEALTH NURSI	5 4 5	FOUR TO TEN YEARS
		*075.117-030	DIRECTOR, SCHOOL OF NURSING	5 4 5	FOUR TO TEN YEARS
		*079.117-010	EMERGENCY MEDICAL SERVICES COORDINA	4 4 4	FOUR TO TEN YEARS
		*079.131-010	DIRECTOR, SPEECH-AND-HEARING	6 5 5	FOUR TO TEN YEARS
		*079.137-010	UTILIZATION-REVIEW COORDINATOR	5 4 5	TWO TO FOUR YEARS
		*079.167-014	MEDICAL-RECORD ADMINISTRATOR	6 5 6	FOUR TO TEN YEARS
		*187.117-058	DIRECTOR, OUTPATIENT SERVICES	6 5 6	FOUR TO TEN YEARS
18.0702	HEALTH CARE PLANNING	*075.117-014	DIRECTOR, COMMUNITY-HEALTH NURSING	5 4 5	FOUR TO TEN YEARS
18.0703	MEDICAL RECORDS ADMINISTRATION	*079.167-014	MEDICAL-RECORD ADMINISTRATOR	6 5 6	FOUR TO TEN YEARS
18.1006	EMERGENCY MEDICINE	*079.117-010	EMERGENCY MEDICAL SERVICES COORDINA	4 4 4	FOUR TO TEN YEARS
18.1022	PREVENTIVE MEDICINE	*075.117-014	DIRECTOR, COMMUNITY-HEALTH NURSING	5 4 5	FOUR TO TEN YEARS
18.1105	NURSING ADMINISTRATION	*075.117-014	DIRECTOR, COMMUNITY-HEALTH NURSING	5 4 5	FOUR TO TEN YEARS
		*075.117-022	DIRECTOR, NURSING SERVICE	5 4 5	FOUR TO TEN YEARS
		*075.117-026	DIRECTOR, OCCUPATIONAL HEALTH NURSI	5 4 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1310 MANAGERS; MEDICINE AND HEALTH (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*075.117-030	DIRECTOR, SCHOOL OF NURSING	5 4 5	FOUR TO TEN YEARS
18.1107	PUBLIC HEALTH	*075.117-014	DIRECTOR, COMMUNITY-HEALTH NURSING	5 4 5	FOUR TO TEN YEARS
		*079.117-010	EMERGENCY MEDICAL SERVICES COORDINA	4 4 4	FOUR TO TEN YEARS
18.2203	PUBLIC HEALTH EDUCATION	*079.117-010	EMERGENCY MEDICAL SERVICES COORDINA	4 4 4	FOUR TO TEN YEARS

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OCCUPATION: 1320

PRODUCTION MANAGERS, INDUSTRIAL

These MANAGERS plan, and direct production activities in plants and factories. They determine work procedures and work through departmental supervisors to control the production, distribution, and marketing of goods. They hire and fire workers and keep production and other work records. They review progress reports and reschedule work so that deadlines can be met. They interpret and enforce company rules and regulations. They also direct the training and assignment of workers, and prepare budgets and reports for management.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED- R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE		
00.0000	NO CIP ASSIGNED	182.167-022	SUPERINTENDENT, CONCRETE-MIXING PLA	4 4 4	ONE TO TWO YEARS
		183.117-010	MANAGER, BRANCH	5 4 4	FOUR TO TEN YEARS
		183.117-014	PRODUCTION SUPERINTENDENT	5 4 4	FOUR TO TEN YEARS
		183.167-014	GENERAL SUPERINTENDENT, MILLING	5 4 4	FOUR TO TEN YEARS
		183.167-018	GENERAL SUPERVISOR	5 4 4	FOUR TO TEN YEARS
		183.167-022	GENERAL SUPERVISOR	4 3 4	FOUR TO TEN YEARS
		183.167-026	MANAGER, FOOD PROCESSING PLANT	5 4 4	FOUR TO TEN YEARS
		183.167-034	SUPERINTENDENT, CAR CONSTRUCTION	5 5 4	FOUR TO TEN YEARS
		189.167-042	SUPERINTENDENT, LABOR UTILIZATION	4 3 4	FOUR TO TEN YEARS
		189.167-046	SUPERINTENDENT, MAINTENANCE	5 4 4	FOUR TO TEN YEARS
01.0102	AGRICULTURAL BUSINESS	*180.167-054	SUPERINTENDENT	5 4 4	TWO TO FOUR YEARS
01.0402	FOOD PRODUCTS	183.161-014	WINE MAKER	5 3 4	FOUR TO TEN YEARS
		183.167-026	MANAGER, FOOD PROCESSING PLANT	5 4 4	FOUR TO TEN YEARS
01.0502	AGRICULTURAL SERVICES	180.167-054	SUPERINTENDENT	5 4 4	TWO TO FOUR YEARS
01.0701	INTERNATIONAL AGRICULTURE	*180.167-054	SUPERINTENDENT	5 4 4	TWO TO FOUR YEARS
02.0301	FOOD SCIENCES	180.167-054	SUPERINTENDENT	5 4 4	TWO TO FOUR YEARS
		183.161-014	WINE MAKER	5 3 4	FOUR TO TEN YEARS
		183.167-010	BREWING DIRECTOR	5 4 4	FOUR TO TEN YEARS
		183.167-026	MANAGER, FOOD PROCESSING PLANT	5 4 4	FOUR TO TEN YEARS
02.0403	HORTICULTURE SCIENCE	180.167-054	SUPERINTENDENT	5 4 4	TWO TO FOUR YEARS
03.0405	LOGGING	183.167-038	SUPERINTENDENT, LOGGING	5 4 4	FOUR TO TEN YEARS
06.0403	PRODUCT MANAGEMENT	*183.117-010	MANAGER, BRANCH	5 4 4	FOUR TO TEN YEARS
06.1601	PERSONNEL MANAGEMENT	*189.167-042	SUPERINTENDENT, LABOR UTILIZATION	4 3 4	FOUR TO TEN YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	189.167-046	SUPERINTENDENT, MAINTENANCE	5 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1320 PRODUCTION MANAGERS, INDUSTRIAL

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
08.1204	PETROLEUM WHOLESALING	181.117-010	MANAGER, BULK PLANT	5 4 4	FOUR TO TEN YEARS
15.0602	FOOD PROCESSING TECHNOLOGY	180.167-054	SUPERINTENDENT	5 4 4	TWO TO FOUR YEARS
		183.161-014	WINE MAKER	5 3 4	FOUR TO TEN YEARS
		183.167-010	BREWING DIRECTOR	5 4 4	FOUR TO TEN YEARS
		183.167-026	MANAGER, FOOD PROCESSING PLANT	5 4 4	FOUR TO TEN YEARS
15.0603	INDUSTRIAL TECHNOLOGY	183.117-010	MANAGER, BRANCH	5 4 4	FOUR TO TEN YEARS
		183.117-014	PRODUCTION SUPERINTENDENT	5 4 4	FOUR TO TEN YEARS
		183.167-018	GENERAL SUPERVISOR	5 4 4	FOUR TO TEN YEARS
		189.167-046	SUPERINTENDENT, MAINTENANCE	5 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1330

CONSTRUCTION MANAGERS

These people manage construction operations for firms that build and repair structures such as buildings, bridges, roads and dams. They work through on-site supervisors to plan and direct construction activities. They study building plans and estimate the materials, labor, and equipment required to complete work. They establish work procedures, order supplies and materials, review progress reports, and issue decisions on staff and equipment requests. They also handle technical matters and union and service contracts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	182.167-010	CONTRACTOR	4 4 4	TWO TO FOUR YEARS
		182.167-018	RAILROAD-CONSTRUCTION DIRECTOR	4 3 3	FOUR TO TEN YEARS
		182.167-026	SUPERINTENDENT, CONSTRUCTION	5 5 4	FOUR TO TEN YEARS
		182.167-030	SUPERINTENDENT, MAINTENANCE OF WAY	5 5 4	FOUR TO TEN YEARS
		182.167-034	SUPERVISOR, BRIDGES AND BUILDINGS	5 5 4	TWO TO FOUR YEARS
01.0603	ORNAMENTAL HORTICULTURE	182.167-014	LANDSCAPE CONTRACTOR	4 4 4	FOUR TO TEN YEARS
01.0605	LANDSCAPING	182.167-014	LANDSCAPE CONTRACTOR	4 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1340

PUBLIC UTILITIES MANAGERS

These workers manage the operations of public utility companies or departments. They plan, organize, and direct the activities of staff and supervisors. They determine work procedures, hire and fire staff, review operations, and enforce regulations. They also prepare budgets and reports, confer with higher management about department operations, and handle problems and complaints.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1341

COMMUNICATIONS OPERATION MANAGERS

These people manage operations in telephone, telegraph, radio, TV, or other companies involved with communications. They plan, organize, and direct departmental activities. They establish work procedures, select staff, and coordinate activities between departments. They review operations, enforce regulations, prepare reports and budgets and advise management on problems and trends. They also handle technical matters and union and service contracts. They may use schedule boards, flow charts, and other devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	168.167-070	REGULATORY ADMINISTRATOR	5	5	5	FOUR TO TEN YEARS
		184.117-062	MANAGER, STATION	5	4	5	FOUR TO TEN YEARS
		184.117-070	OPERATIONS MANAGER	5	5	5	FOUR TO TEN YEARS
		184.117-074	REVENUE-SETTLEMENTS ADMINISTRATOR	5	5	5	FOUR TO TEN YEARS
		184.117-082	SUPERINTENDENT, COMMUNICATIONS	5	4	4	FOUR TO TEN YEARS
		184.161-010	CABLE SUPERVISOR	4	2	4	FOUR TO TEN YEARS
		184.167-018	DIRECTOR, OPERATIONS	5	4	5	FOUR TO TEN YEARS
		184.167-062	MANAGER, COMMUNICATIONS STATION	5	4	4	FOUR TO TEN YEARS
		184.167-086	MANAGER, TELEGRAPH OFFICE	4	3	4	FOUR TO TEN YEARS
		184.167-098	MANAGER, TRAFFIC 1	4	3	4	FOUR TO TEN YEARS
		184.167-106	MANAGER, TRAFFIC 2	5	4	5	FOUR TO TEN YEARS
		184.167-134	STATIONS-RELATIONS-CONTACT REPRESENTATIVE	5	4	5	FOUR TO TEN YEARS
		184.167-258	TESTING-AND-REGULATING CHIEF	5	4	4	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	184.167-090	MANAGER, TRAFFIC	5	3	5	TWO TO FOUR YEARS
09.0201	ADVERTISING	184.167-090	MANAGER, TRAFFIC	5	3	5	TWO TO FOUR YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*184.167-018	DIRECTOR, OPERATIONS	5	4	5	FOUR TO TEN YEARS
09.0801	TELECOMMUNICATIONS	184.167-230	SUPERVISOR OF COMMUNICATIONS	4	4	4	FOUR TO TEN YEARS
10.0102	MOTION PICTURE TECHNOLOGY	962.162-010	DIRECTOR, TECHNICAL	5	2	4	FOUR TO TEN YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROADCASTING	962.162-010	DIRECTOR, TECHNICAL	5	2	4	FOUR TO TEN YEARS
10.0106	VIDEO TECHNOLOGY	*962.162-010	DIRECTOR, TECHNICAL	5	2	4	FOUR TO TEN YEARS
15.0303	ELECTRONIC TECHNOLOGY	184.167-230	SUPERVISOR OF COMMUNICATIONS	4	4	4	FOUR TO TEN YEARS

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OCCUPATION: 1342

TRANSPORTATION FACILITIES AND OPERATIONS MANAGERS

These people manage operations in companies that provide transportation, delivery, storage, and related services. They plan, organize, and direct the departmental activities. They establish work procedures, select staff, and coordinate activities between departments. They review operations, enforce regulations, prepare reports and budgets, and advise management on problems and trends. They also handle technical matters and service and union contracts. They may use schedule boards, flow charts, and similar devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	184.167-038	DISPATCHER, CHIEF 1	5	4	4	FOUR TO TEN YEARS
		184.167-130	STATION MANAGER	4	3	3	TWO TO FOUR YEARS
		184.167-146	SUPERINTENDENT, COMPRESSOR STATIONS	5	4	4	FOUR TO TEN YEARS
		184.167-174	SUPERINTENDENT, MAINTENANCE	5	4	4	FOUR TO TEN YEARS
		184.167-178	SUPERINTENDENT, MAINTENANCE OF EQUI	4	3	4	FOUR TO TEN YEARS
		184.167-190	SUPERINTENDENT, MEASUREMENT	5	5	4	FOUR TO TEN YEARS
		184.167-198	SUPERINTENDENT, PIPE-LINES	5	5	5	FOUR TO TEN YEARS
		184.167-266	TRANSPORTATION-MAINTENANCE SUPERVIS	5	4	4	FOUR TO TEN YEARS
		189.167-038	SUPERINTENDENT, AMMUNITION STORAGE	4	4	4	FOUR TO TEN YEARS
06.0705	TRANSPORTATION MANAGEMENT	184.117-018	DISTRICT SUPERVISOR	5	5	5	ONE TO TWO YEARS
		184.117-026	MANAGER, AIRPORT	5	5	5	FOUR TO TEN YEARS
		184.117-034	MANAGER, AUTOMOTIVE SERVICES	5	4	4	FOUR TO TEN YEARS
		184.117-038	MANAGER, FLIGHT OPERATIONS	5	5	5	FOUR TO TEN YEARS
		184.117-042	MANAGER, HARBOR DEPARTMENT	6	4	4	OVER 10 YEARS
		184.117-050	MANAGER, OPERATIONS	5	5	5	FOUR TO TEN YEARS
		184.117-054	MANAGER, REGIONAL	5	5	5	FOUR TO TEN YEARS
		184.117-058	MANAGER, SCHEDULE PLANNING	5	4	5	FOUR TO TEN YEARS
		184.117-066	MANAGER, TRAFFIC	5	5	5	FOUR TO TEN YEARS
		184.167-010	BOAT DISPATCHER	4	3	3	TWO TO FOUR YEARS
		184.167-042	GENERAL AGENT, OPERATIONS	4	3	4	FOUR TO TEN YEARS
		184.167-054	MANAGER, BUS TRANSPORTATION	4	4	4	FOUR TO TEN YEARS
		184.167-058	MANAGER, CARGO-AND-RAMP-SERVICES	5	4	4	FOUR TO TEN YEARS
		184.167-066	MANAGER, FLIGHT CONTROL	5	4	4	FOUR TO TEN YEARS
		184.167-070	MANAGER, FLIGHT-RESERVATIONS	5	4	4	FOUR TO TEN YEARS
		184.167-082	MANAGER, STATION	5	4	4	FOUR TO TEN YEARS
		184.167-094	MANAGER, TRAFFIC	5	4	4	FOUR TO TEN YEARS
		184.167-102	MANAGER, TRAFFIC 1	5	4	5	FOUR TO TEN YEARS
		184.167-110	MANAGER, TRUCK TERMINAL	4	3	3	FOUR TO TEN YEARS
		184.167-118	OPERATIONS MANAGER	4	3	3	ONE TO TWO YEARS
		184.167-122	PORT-TRAFFIC MANAGER	5	5	5	FOUR TO TEN YEARS
		184.167-158	SUPERINTENDENT, DIVISION	5	3	5	FOUR TO TEN YEARS
		184.167-186	SUPERINTENDENT, MARINE OIL TERMINAL	4	3	4	FOUR TO TEN YEARS
		184.167-206	SUPERINTENDENT, STATIONS	5	5	4	ONE TO TWO YEARS

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OCCUPATION: 1342 TRANSPORTATION FACILITIES AND OPERATIONS MANAGERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		184.167-214	SUPERINTENDENT, TERMINAL	5 4 4	FOUR TO TEN YEARS
		184.167-226	SUPERINTENDENT, TRANSPORTATION	5 4 5	FOUR TO TEN YEARS
		184.167-242	SUPERVISOR, TERMINAL OPERATIONS	5 4 4	FOUR TO TEN YEARS
		184.167-254	TERMINAL SUPERINTENDENT	4 3 4	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	184.117-022	IMPORT-EXPORT AGENT	5 4 5	TWO TO FOUR YEARS
		184.167-070	MANAGER, FLIGHT-RESERVATIONS	5 4 4	FOUR TO TEN YEARS
		184.167-110	MANAGER, TRUCK TERMINAL	4 3 3	FOUR TO TEN YEARS
		184.167-114	MANAGER, WAREHOUSE	5 5 4	FOUR TO TEN YEARS
		184.167-118	OPERATIONS MANAGER	4 3 3	ONE TO TWO YEARS
		184.167-122	PORT-TRAFFIC MANAGER	5 5 5	FOUR TO TEN YEARS
		184.167-274	WHARFINGER, CHIEF	4 4 4	FOUR TO TEN YEARS
		372.167-022	MANAGER, ARMORED TRANSPORT SERVICE	4 3 4	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	372.167-022	MANAGER, ARMORED TRANSPORT SERVICE	4 3 4	ONE TO TWO YEARS
08.0703	INTERNATIONAL MARKETING	184.117-022	IMPORT-EXPORT AGENT	5 4 5	TWO TO FOUR YEARS
08.1102	TRANSPORTATION MARKETING	184.167-070	MANAGER, FLIGHT-RESERVATIONS	5 4 4	FOUR TO TEN YEARS
		184.167-110	MANAGER, TRUCK TERMINAL	4 3 3	FOUR TO TEN YEARS
		184.167-122	PORT-TRAFFIC MANAGER	5 5 5	FOUR TO TEN YEARS
		184.167-274	WHARFINGER, CHIEF	4 4 4	FOUR TO TEN YEARS
		184.267-010	FREIGHT-TRAFFIC CONSULTANT	5 4 4	FOUR TO TEN YEARS
08.1106	WAREHOUSE SERVICES MARKETING	184.167-114	MANAGER, WAREHOUSE	5 5 4	FOUR TO TEN YEARS
		184.167-118	OPERATIONS MANAGER	4 3 3	ONE TO TWO YEARS
31.0401	WATER RESOURCES	*184.117-042	MANAGER, HARBOR DEPARTMENT	6 4 4	OVER 10 YEARS
43.0109	SECURITY SERVICES	372.167-022	MANAGER, ARMORED TRANSPORT SERVICE	4 3 4	ONE TO TWO YEARS
43.0201	FIRE CONTROL AND SAFETY TECHNOLOGY	909.127-010	SAFETY COORDINATOR	4 3 3	TWO TO FOUR YEARS
44.0602	PUBLIC TRANSPORTATION	*184.117-018	DISTRICT SUPERVISOR	5 5 5	ONE TO TWO YEARS
		*184.117-026	MANAGER, AIRPORT	5 5 5	FOUR TO TEN YEARS
		*184.117-042	MANAGER, HARBOR DEPARTMENT	6 4 4	OVER 10 YEARS
		*184.117-050	MANAGER, OPERATIONS	5 5 5	FOUR TO TEN YEARS
		*184.167-054	MANAGER, BUS TRANSPORTATION	4 4 4	FOUR TO TEN YEARS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	184.167-170	SUPERINTENDENT, MAINTENANCE	4 4 3	TWO TO FOUR YEARS
49.0104	AVIATION MANAGEMENT	*184.117-026	MANAGER, AIRPORT	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1342 TRANSPORTATION FACILITIES AND OPERATIONS MANAGERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
		*184.117-038	MANAGER, FLIGHT OPERATIONS	5	5	5 FOUR TO TEN YEARS
		*184.117-058	MANAGER, SCHEDULE PLANNING	5	4	5 FOUR TO TEN YEARS
		*184.117-066	MANAGER, TRAFFIC	5	5	5 FOUR TO TEN YEARS
		*184.167-066	MANAGER, FLIGHT CONTROL	5	4	4 FOUR TO TEN YEARS
		*184.167-070	MANAGER, FLIGHT-RESERVATIONS	5	4	4 FOUR TO TEN YEARS
		*184.167-082	MANAGER, STATION	5	4	4 FOUR TO TEN YEARS
49.0305	MARINA OPERATIONS	184.167-182	SUPERINTENDENT, MARINE	5	5	4 FOUR TO TEN YEARS

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OCCUPATION: 1343

ELECTRICITY, GAS, WATER SUPPLY, AND SANITARY SERVICES MANAGERS

These people manage service departments in companies that supply electricity, gas, water, steam, or sanitary services. They work through supervisors and other staff to direct the operations of planning, service, or maintenance departments. They determine work procedures, select staff, and coordinate activities within their assigned areas. They review operations, enforce regulations, prepare reports, and budgets, and advise management on problems and trends. They also handle technical matters and service and union contracts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME
00.0000	NO CIP ASSIGNED	184.117-030	MANAGER, AREA DEVELOPMENT	5 3 4 FOUR TO TEN YEARS
		184.161-014	SUPERINTENDENT, WATER-AND-SEWER SYS	6 6 6 OVER 10 YEARS
		184.167-078	MANAGER, SOLID-WASTE-DISPOSAL	4 3 3 TWO TO FOUR YEARS
		184.167-138	SUPERINTENDENT OF GENERATION	5 5 4 FOUR TO TEN YEARS
		184.167-150	SUPERINTENDENT, DISTRIBUTION 1	5 5 4 OVER 10 YEARS
		184.167-154	SUPERINTENDENT, DISTRIBUTION 2	5 4 4 FOUR TO TEN YEARS
		184.167-162	SUPERINTENDENT, ELECTRIC POWER	5 5 5 FOUR TO TEN YEARS
		184.167-166	SUPERINTENDENT, GENERATING PLANT	5 4 4 FOUR TO TEN YEARS
		184.167-202	SUPERINTENDENT, POWER	5 4 4 FOUR TO TEN YEARS
		184.167-222	SUPERINTENDENT, TRANSMISSION	5 5 4 FOUR TO TEN YEARS
		184.167-238	SUPERVISOR, SEWER SYSTEM	5 5 5 FOUR TO TEN YEARS
		184.167-270	WATER CONTROL SUPERVISOR	5 4 4 FOUR TO TEN YEARS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	184.117-046	MANAGER, IRRIGATION DISTRICT	5 4 4 OVER 10 YEARS
03.0202	CONSERVATION	184.117-046	MANAGER, IRRIGATION DISTRICT	5 4 4 OVER 10 YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	184.167-126	SERVICE SUPERVISOR 3	4 4 4 FOUR TO TEN YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	184.167-218	SUPERINTENDENT, TESTS	5 5 4 OVER 10 YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	184.167-218	SUPERINTENDENT, TESTS	5 5 4 OVER 10 YEARS
15.0503	ENERGY CONSERVATION AND USE TECHNOLOGY	184.167-210	SUPERINTENDENT, SYSTEM OPERATION	5 5 4 FOUR TO TEN YEARS
		959.137-022	SUPERVISOR, HOME-ENERGY CONSULTANT	4 3 4 ONE TO TWO YEARS
15.0506	WATER AND WASTEWATER TECHNOLOGY	184.167-246	SUPERVISOR, WATERWORKS	5 5 5 TWO TO FOUR YEARS
44.0601	PUBLIC SANITATION	*184.167-078	MANAGER, SOLID-WASTE-DISPOSAL	4 3 3 TWO TO FOUR YEARS
		*184.167-238	SUPERVISOR, SEWER SYSTEM	5 5 5 FOUR TO TEN YEARS
44.0603	PUBLIC UTILITIES	*184.117-030	MANAGER, AREA DEVELOPMENT	5 3 4 FOUR TO TEN YEARS
		*184.117-046	MANAGER, IRRIGATION DISTRICT	5 4 4 OVER 10 YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1343 ELECTRICITY, GAS, WATER SUPPLY, AND SANITARY SERVIC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
		*184.161-014	SUPERINTENDENT, WATER-AND-SEWER SYS	6	6	6 OVER 10 YEARS
		*184.167-078	MANAGER, SOLID-WASTE-DISPOSAL	4	3	3 TWO TO FOUR YEARS
		*184.167-138	SUPERINTENDENT OF GENERATION	5	5	4 FOUR TO TEN YEARS
		*184.167-150	SUPERINTENDENT, DISTRIBUTION 1	5	5	4 OVER 10 YEARS
		*184.167-154	SUPERINTENDENT, DISTRIBUTION 2	5	4	4 FOUR TO TEN YEARS
		*184.167-162	SUPERINTENDENT, ELECTRIC POWER	5	5	5 FOUR TO TEN YEARS
		*184.167-166	SUPERINTENDENT, GENERATING PLANT	5	4	4 FOUR TO TEN YEARS
		*184.167-210	SUPERINTENDENT, SYSTEM OPERATION	5	5	4 FOUR TO TEN YEARS
		*184.167-222	SUPERINTENDENT, TRANSMISSION	5	5	4 FOUR TO TEN YEARS
		*184.167-246	SUPERVISOR, WATERWORKS	5	5	5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1344

POSTMASTERS AND MAIL SUPERINTENDENTS

These people are responsible for the day-to-day operation of post offices. They supervise post office staff, set up work schedules, and handle customer complaints. Some are responsible for the operation and management of several post offices. They hire and train post office managers and direct safety, finance, maintenance, and other programs for post offices in their district. They also provide postal information to the public.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	188.167-066	POSTMASTER	4 4 4	TWO TO FOUR YEARS
		188.167-086	SECTIONAL CENTER MANAGER, POSTAL SE	5 3 4	FOUR TO TEN YEARS
44.0401	PUBLIC ADMINISTRATION	*188.167-066	POSTMASTER	4 4 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1350

MANAGERS: SERVICE ORGANIZATIONS

These workers manage businesses or organizations that provide services to individuals or organizations. They may run a hotel or restaurant, a property leasing or management service, or a professional organization, for example. These managers may estimate customer or client demand, prepare budgets and work schedules, and establish policies and procedures. They also organize programs to meet client or business goals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1351

MANAGERS: FOOD SERVING AND LODGING ESTABLISHMENTS

These people manage businesses that serve foods and/or provide lodging and related services to people. This may include restaurants, hotels, school cafeterias, trailer parks, or similar facilities. They plan, organize, and direct the operation of the business. They determine the types and amounts of goods or services to be sold, and may set price and credit policies. They determine work procedures, plan budgets, and order stock and supplies. They hire and supervise staff, enforce rules, handle customer and worker complaints, and keep business records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	187.167-050	MANAGER, AGRICULTURAL-LABOR CAMP	5 4 4	TWO TO FOUR YEARS
		187.167-066	MANAGER, CAMP	4 3 3	ONE TO TWO YEARS
06.0701	HOTEL/MOTEL MANAGEMENT	187.117-038	MANAGER, HOTEL OR MOTEL	5 5 5	FOUR TO TEN YEARS
		187.167-078	MANAGER, CONVENTION	5 4 4	TWO TO FOUR YEARS
		187.167-110	MANAGER, FRONT OFFICE	4 4 4	ONE TO TWO YEARS
		187.167-122	MANAGER, HOTEL RECREATIONAL FACILIT	4 4 4	TWO TO FOUR YEARS
		320.137-010	MANAGER, BOARDING HOUSE	3 3 3	ONE TO TWO YEARS
		320.137-014	MANAGER, LODGING FACILITIES	4 3 4	TWO TO FOUR YEARS
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	187.167-122	MANAGER, HOTEL RECREATIONAL FACILIT	4 4 4	TWO TO FOUR YEARS
06.0703	RESORT MANAGEMENT	187.117-038	MANAGER, HOTEL OR MOTEL	5 5 5	FOUR TO TEN YEARS
		187.167-122	MANAGER, HOTEL RECREATIONAL FACILIT	4 4 4	TWO TO FOUR YEARS
06.0704	RESTAURANT MANAGEMENT	185.137-010	MANAGER, FAST FOOD SERVICES	4 4 4	TWO TO FOUR YEARS
		187.117-038	MANAGER, HOTEL OR MOTEL	5 5 5	FOUR TO TEN YEARS
		187.167-026	DIRECTOR, FOOD SERVICES	5 4 4	TWO TO FOUR YEARS
		187.167-106	MANAGER, FOOD SERVICE	4 4 4	TWO TO FOUR YEARS
		187.167-126	MANAGER, LIQUOR ESTABLISHMENT	4 4 4	ONE TO TWO YEARS
06.1401	MARKETING MANAGEMENT	185.137-010	MANAGER, FAST FOOD SERVICES	4 4 4	TWO TO FOUR YEARS
		187.117-038	MANAGER, HOTEL OR MOTEL	5 5 5	FOUR TO TEN YEARS
		187.167-078	MANAGER, CONVENTION	5 4 4	TWO TO FOUR YEARS
		187.167-106	MANAGER, FOOD SERVICE	4 4 4	TWO TO FOUR YEARS
		187.167-110	MANAGER, FRONT OFFICE	4 4 4	ONE TO TWO YEARS
		187.167-122	MANAGER, HOTEL RECREATIONAL FACILIT	4 4 4	TWO TO FOUR YEARS
		187.167-126	MANAGER, LIQUOR ESTABLISHMENT	4 4 4	ONE TO TWO YEARS
		320.137-014	MANAGER, LODGING FACILITIES	4 3 4	TWO TO FOUR YEARS
08.0708	MARKETING, GENERAL	*185.137-010	MANAGER, FAST FOOD SERVICES	4 4 4	TWO TO FOUR YEARS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	187.117-038	MANAGER, HOTEL OR MOTEL	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1351 MANAGERS; FOOD SERVING AND LODGING ESTABLISHMENTS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING TIME
		187.167-078	MANAGER, CONVENTION	5	4	4	TWO TO FOUR YEARS
		187.167-110	MANAGER, FRONT OFFICE	4	4	4	ONE TO TWO YEARS
		320.137-010	MANAGER, BOARDING HOUSE	3	3	3	ONE TO TWO YEARS
		320.137-014	MANAGER, LODGING FACILITIES	4	3	4	TWO TO FOUR YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	187.167-122	MANAGER, HOTEL RECREATIONAL FACILIT	4	4	4	TWO TO FOUR YEARS
		320.137-014	MANAGER, LODGING FACILITIES	4	3	4	TWO TO FOUR YEARS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	185.137-010	MANAGER, FAST FOOD SERVICES	4	4	4	TWO TO FOUR YEARS
		187.167-106	MANAGER, FOOD SERVICE	4	4	4	TWO TO FOUR YEARS
		187.167-126	MANAGER, LIQUOR ESTABLISHMENT	4	4	4	ONE TO TWO YEARS
20.0403	CHEF/COOK	187.161-010	EXECUTIVE CHEF	5	4	3	FOUR TO TEN YEARS
20.0405	FOOD CATERING	187.167-106	MANAGER, FOOD SERVICE	4	4	4	TWO TO FOUR YEARS
20.0406	FOOD SERVICE	187.167-026	DIRECTOR, FOOD SERVICES	5	4	4	TWO TO FOUR YEARS
		187.167-106	MANAGER, FOOD SERVICE	4	4	4	TWO TO FOUR YEARS
20.0408	SCHOOL FOOD SERVICE	187.167-026	DIRECTOR, FOOD SERVICES	5	4	4	TWO TO FOUR YEARS
20.0605	EXECUTIVE HOUSEKEEPING	187.167-046	EXECUTIVE HOUSEKEEPER	5	4	4	ONE TO TWO YEARS
31.0301	PARKS AND RECREATION MANAGEMENT	*187.167-122	MANAGER, HOTEL RECREATIONAL FACILIT	4	4	4	TWO TO FOUR YEARS
49.0305	MARINA OPERATIONS	320.137-014	MANAGER, LODGING FACILITIES	4	3	4	TWO TO FOUR YEARS

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OCCUPATION: 1352

MANAGERS: ENTERTAINMENT AND RECREATION FACILITIES

These people manage facilities that offer social, recreational, or cultural programs or activities. For example, they may run a circus, dance hall, sports arena, gambling house, or sports club. They plan, organize, and direct the operation of the business. They set price and credit policies, determine work procedures, plan budgets, and order needed supplies. They hire, fire, and assign duties to staff and enforce safety and other rules. They handle money affairs, and keep business records. They also handle complaints.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	187.137-010	RECREATION SUPERVISOR	5	3	4 FOUR TO TEN YEARS
		187.167-014	BOOKMAKER	4	3	3 ONE TO TWO YEARS
		187.167-202	DIRECTOR, CRAFT CENTER	5	4	5 TWO TO FOUR YEARS
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	187.117-034	GENERAL MANAGER, ROAD PRODUCTION	4	3	5 FOUR TO TEN YEARS
		187.117-042	MANAGER, RECREATION ESTABLISHMENT	5	4	4 TWO TO FOUR YEARS
		187.137-010	RECREATION SUPERVISOR	5	3	4 FOUR TO TEN YEARS
		187.167-054	MANAGER, AQUATIC FACILITY	4	4	4 TWO TO FOUR YEARS
		187.167-070	MANAGER, CASINO	4	4	4 TWO TO FOUR YEARS
		187.167-086	MANAGER, DANCE STUDIO	4	3	4 ONE TO TWO YEARS
		187.167-094	MANAGER, DUDE RANCH	4	4	4 TWO TO FOUR YEARS
		187.167-102	MANAGER, FISH-AND-GAME CLUB	4	4	4 ONE TO TWO YEARS
		187.167-114	MANAGER, GOLF CLUB	4	4	4 ONE TO TWO YEARS
		187.167-118	MANAGER, GUN CLUB	4	3	4 ONE TO TWO YEARS
		187.167-146	MANAGER, SKATING RINK	4	4	4 ONE TO TWO YEARS
		187.167-154	MANAGER, THEATER	4	4	4 TWO TO FOUR YEARS
		187.167-166	MANAGER, WINTER SPORTS	4	4	4 ONE TO TWO YEARS
		195.167-018	DIRECTOR, CAMP	5	4	5 TWO TO FOUR YEARS
		195.167-022	DIRECTOR, FIELD	5	4	5 TWO TO FOUR YEARS
06.0703	RESORT MANAGEMENT	187.167-094	MANAGER, DUDE RANCH	4	4	4 TWO TO FOUR YEARS
		187.167-102	MANAGER, FISH-AND-GAME CLUB	4	4	4 ONE TO TWO YEARS
		187.167-166	MANAGER, WINTER SPORTS	4	4	4 ONE TO TWO YEARS
		195.167-018	DIRECTOR, CAMP	5	4	5 TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	187.137-010	RECREATION SUPERVISOR	5	3	4 FOUR TO TEN YEARS
		187.167-094	MANAGER, DUDE RANCH	4	4	4 TWO TO FOUR YEARS
		187.167-102	MANAGER, FISH-AND-GAME CLUB	4	4	4 ONE TO TWO YEARS
		187.167-114	MANAGER, GOLF CLUB	4	4	4 ONE TO TWO YEARS
		187.167-118	MANAGER, GUN CLUB	4	3	4 ONE TO TWO YEARS
		187.167-146	MANAGER, SKATING RINK	4	4	4 ONE TO TWO YEARS
		187.167-154	MANAGER, THEATER	4	4	4 TWO TO FOUR YEARS
		187.167-166	MANAGER, WINTER SPORTS	4	4	4 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1352 MANAGERS; ENTERTAINMENT AND RECREATION FACILITIES (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
07.0401	OFFICE SUPERVISION AND MANAGEMENT	187.167-134	MANAGER, MUTUEL DEPARTMENT	4	4 4	SIX TO 12 MONTHS
08.0903	MARKETING OF RECREATIONAL SERVICES	187.137-010	RECREATION SUPERVISOR	5	3 4	FOUR TO TEN YEARS
		187.167-094	MANAGER, DUDE RANCH	4	4 4	TWO TO FOUR YEARS
		187.167-102	MANAGER, FISH-AND-GAME CLUB	4	4 4	ONE TO TWO YEARS
		187.167-114	MANAGER, GOLF CLUB	4	4 4	ONE TO TWO YEARS
		187.167-118	MANAGER, GUN CLUB	4	3 4	ONE TO TWO YEARS
		187.167-146	MANAGER, SKATING RINK	4	4 4	ONE TO TWO YEARS
		187.167-154	MANAGER, THEATER	4	4 4	TWO TO FOUR YEARS
		187.167-166	MANAGER, WINTER SPORTS	4	4 4	ONE TO TWO YEARS
25.0501	MUSEOLOGY	*187.167-202	DIRECTOR, CRAFT CENTER	5	4 5	TWO TO FOUR YEARS
31.0201	OUTDOOR RECREATION	187.167-094	MANAGER, DUDE RANCH	4	4 4	TWO TO FOUR YEARS
		187.167-102	MANAGER, FISH-AND-GAME CLUB	4	4 4	ONE TO TWO YEARS
31.0301	PARKS AND RECREATION MANAGEMENT	*187.117-042	MANAGER, RECREATION ESTABLISHMENT	5	4 4	TWO TO FOUR YEARS
		*187.137-010	RECREATION SUPERVISOR	5	3 4	FOUR TO TEN YEARS
		*187.167-054	MANAGER, AQUATIC FACILITY	4	4 4	TWO TO FOUR YEARS
		*187.167-070	MANAGER, CASINO	4	4 4	TWO TO FOUR YEARS
		*187.167-086	MANAGER, DANCE STUDIO	4	3 4	ONE TO TWO YEARS
		*187.167-094	MANAGER, DUDE RANCH	4	4 4	TWO TO FOUR YEARS
		*187.167-102	MANAGER, FISH-AND-GAME CLUB	4	4 4	ONE TO TWO YEARS
		*187.167-114	MANAGER, GOLF CLUB	4	4 4	ONE TO TWO YEARS
		*187.167-118	MANAGER, GUN CLUB	4	3 4	ONE TO TWO YEARS
		*187.167-146	MANAGER, SKATING RINK	4	4 4	ONE TO TWO YEARS
		*187.167-166	MANAGER, WINTER SPORTS	4	4 4	ONE TO TWO YEARS
44.0201	COMMUNITY SERVICES	*195.167-022	DIRECTOR, FIELD	5	4 5	TWO TO FOUR YEARS
50.0704	ARTS MANAGEMENT	*187.167-154	MANAGER, THEATER	4	4 4	TWO TO FOUR YEARS

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OCCUPATION: 1353

MANAGERS: PROPERTY AND LEASING

These people manage estates, buy and sell real estate, and lease property for clients and employers. They show property to clients, arrange loans for clients and sign lease payments and sales contracts. Some manage apartment complexes or housing projects. Some arrange permits with land owners to allow surveys or prospecting on their land. Some buy or lease land for construction projects. Some arrange leasing of facilities for public events.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	186.117-042	MANAGER, LAND DEVELOPMENT	5 5 5	FOUR TO TEN YEARS
04.0801	LAND USE MANAGEMENT AND RECLAMATION	*186.117-042	MANAGER, LAND DEVELOPMENT	5 5 5	FOUR TO TEN YEARS
06.0301	BANKING AND FINANCE	*189.157-010	BUSINESS-OPPORTUNITY-AND-PROPERTY-I	5 4 4	TWO TO FOUR YEARS
06.1001	INVESTMENTS AND SECURITIES	*189.157-010	BUSINESS-OPPORTUNITY-AND-PROPERTY-I	5 4 4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	186.117-046	MANAGER, LEASING	5 5 5	FOUR TO TEN YEARS
		186.117-062	RENTAL MANAGER, PUBLIC EVENTS FACIL	5 4 4	FOUR TO TEN YEARS
		186.167-018	MANAGER, APARTMENT HOUSE	3 3 3	ONE TO TWO YEARS
		186.167-030	MANAGER, HOUSING PROJECT	5 4 4	TWO TO FOUR YEARS
		186.167-038	MANAGER, LAND LEASES-AND-RENTALS	4 4 4	TWO TO FOUR YEARS
		186.167-042	MANAGER, MARKET	4 3 3	TWO TO FOUR YEARS
		186.167-046	MANAGER, PROPERTY	5 4 4	FOUR TO TEN YEARS
		187.167-190	SUPERINTENDENT, BUILDING	4 4 4	TWO TO FOUR YEARS
		191.117-042	PERMIT AGENT, GEOPHYSICAL PROSPECTI	5 4 5	ONE TO TWO YEARS
		191.117-050	RIGHT-OF-WAY SUPERVISOR	5 4 5	FOUR TO TEN YEARS
06.1701	REAL ESTATE	186.117-046	MANAGER, LEASING	5 5 5	FOUR TO TEN YEARS
		186.117-058	REAL-ESTATE AGENT	5 5 5	FOUR TO TEN YEARS
		186.117-062	RENTAL MANAGER, PUBLIC EVENTS FACIL	5 4 4	FOUR TO TEN YEARS
		186.167-018	MANAGER, APARTMENT HOUSE	3 3 3	ONE TO TWO YEARS
		186.167-030	MANAGER, HOUSING PROJECT	5 4 4	TWO TO FOUR YEARS
		186.167-038	MANAGER, LAND LEASES-AND-RENTALS	4 4 4	TWO TO FOUR YEARS
		186.167-046	MANAGER, PROPERTY	5 4 4	FOUR TO TEN YEARS
		187.167-190	SUPERINTENDENT, BUILDING	4 4 4	TWO TO FOUR YEARS
		189.157-010	BUSINESS-OPPORTUNITY-AND-PROPERTY-I	5 4 4	TWO TO FOUR YEARS
		191.117-030	LEASE BUYER	5 4 5	TWO TO FOUR YEARS
191.117-042	PERMIT AGENT, GEOPHYSICAL PROSPECTI	5 4 5	ONE TO TWO YEARS		
191.117-046	RIGHT-OF-WAY AGENT	5 4 5	TWO TO FOUR YEARS		
191.117-050	RIGHT-OF-WAY SUPERVISOR	5 4 5	FOUR TO TEN YEARS		
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	186.117-062	RENTAL MANAGER, PUBLIC EVENTS FACIL	5 4 4	FOUR TO TEN YEARS

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OCCUPATION: 1353 MANAGERS; PROPERTY AND LEASING (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0605	WHOLESALE FOOD MARKETING	186.167-042	MANAGER, MARKET	4 3 3	TWO TO FOUR YEARS
08.0706	SALES	186.117-058	REAL-ESTATE AGENT	5 5 5	FOUR TO TEN YEARS
		189.157-010	BUSINESS-OPPORTUNITY-AND-PROPERTY-1	5 4 4	TWO TO FOUR YEARS
08.0707	WHOLESALE	186.167-042	MANAGER, MARKET	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 1354

MANAGERS: MEMBERSHIP ORGANIZATIONS

These people plan, organize, and direct programs for groups that operate on a membership basis. This may include professional, trade, or business groups. They help members set objectives and policies, organize publicity, and set up committees. They may provide members with marketing information or help them promote community support for civic improvements. Some provide services, such as membership development or job placement. Some direct programs to help businesses develop and use foreign markets.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	075.117-034	EXECUTIVE DIRECTOR, NURSES' ASSOCIA	6	4 6	FOUR TO TEN YEARS
		187.117-030	EXECUTIVE VICE PRESIDENT, CHAMBER O	5	5 5	FOUR TO TEN YEARS
		187.167-018	BUSINESS REPRESENTATIVE, LABOR UNIO	5	3 4	FOUR TO TEN YEARS
		187.167-042	DIVISION MANAGER, CHAMBER OF COMMER	5	4 5	TWO TO FOUR YEARS
		189.117-010	ASSOCIATION EXECUTIVE	5	4 5	FOUR TO TEN YEARS
05.0101	AFRICAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0102	AMERICAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0103	ASIAN STUDIES, GENERAL	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0104	EAST ASIAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0105	EASTERN EUROPEAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0107	LATIN AMERICAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0108	MIDDLE EASTERN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0109	PACIFIC AREA STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0111	SCANDANAVIAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0112	SOUTH ASIAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0114	WESTERN EUROPEAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS
05.0115	CANADIAN STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5	4 5	TWO TO FOUR YEARS

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OCCUPATION: 1354 MANAGERS; MEMBERSHIP ORGANIZATIONS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
05.0204	ISLAMIC STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5 4 5	TWO TO FOUR YEARS
05.0205	JEWISH STUDIES	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5 4 5	TWO TO FOUR YEARS
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5 4 5	TWO TO FOUR YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*187.167-018	BUSINESS REPRESENTATIVE, LABOR UNIO	5 3 4	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5 4 5	TWO TO FOUR YEARS
08.0703	INTERNATIONAL MARKETING	187.167-170	MANAGER, WORLD TRADE AND MARITIME D	5 4 5	TWO TO FOUR YEARS
18.1105	NURSING ADMINISTRATION	*075.117-034	EXECUTIVE DIRECTOR, NURSES' ASSOCIA	6 4 6	FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1359

These workers manage businesses, departments, or organizations that provide customer or internal services. This may include laundering, burial security, repair, travel or other services. They plan budgets, order stock and supplies, determine work procedures and staff function. They hire, train and supervise staff. They keep business records, take inventories, and enforce safety and other rules. They also handle complaints and may promote the sale of services.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	187.167-022	COORDINATOR, VOLUNTEER SERVICES	5 3 5	TWO TO FOUR YEARS
		187.167-034	DIRECTOR, NURSES' REGISTRY	5 4 5	ONE TO TWO YEARS
06.1401	MARKETING MANAGEMENT	187.167-030	DIRECTOR, FUNERAL	4 4 4	TWO TO FOUR YEARS
		187.167-074	MANAGER, CEMETERY	4 4 4	TWO TO FOUR YEARS
		187.167-158	MANAGER, TRAVEL AGENCY	4 4 4	TWO TO FOUR YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	183.167-030	SERVICE SUPERVISOR, LEASED MACHINER	4 4 4	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	187.167-030	DIRECTOR, FUNERAL	4 4 4	TWO TO FOUR YEARS
		187.167-074	MANAGER, CEMETERY	4 4 4	TWO TO FOUR YEARS
		187.167-158	MANAGER, TRAVEL AGENCY	4 4 4	TWO TO FOUR YEARS
08.1105	TRAVEL SERVICES MARKETING	187.167-158	MANAGER, TRAVEL AGENCY	4 4 4	TWO TO FOUR YEARS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	187.167-194	SUPERINTENDENT, LAUNDRY	4 4 4	TWO TO FOUR YEARS
12.0301	FUNERAL SERVICES	187.167-030	DIRECTOR, FUNERAL	4 4 4	TWO TO FOUR YEARS
17.0103	DENTAL LABORATORY TECHNOLOGY	187.167-090	MANAGER, DENTAL LABORATORY	5 4 4	TWO TO FOUR YEARS
20.0302	CLOTHING MAINTENANCE AIDE	187.167-194	SUPERINTENDENT, LAUNDRY	4 4 4	TWO TO FOUR YEARS
43.0109	SECURITY SERVICES	189.167-050	SUPERINTENDENT, PLANT PROTECTION	5 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1360

MANAGERS: MINING, QUARRYING, WELL DRILLING AND SIMILAR OCCUPATIONS

These workers manage operations at mines, quarries, or oil fields. They plan and organize operations and work through on-site supervisors to direct the day-to-day field work. They study survey data, maps, blueprints, laws, and cost estimates to plan the construction of mines or wells. They direct transportation, housing, and supply services, and arrange for the upkeep and repair of equipment. They also determine work procedures and schedules, enforce safety rules, and solve technical problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	181.167-018	SUPERVISOR, MINE	4 3 3	FOUR TO TEN YEARS
15.0901	COAL MINING TECHNOLOGY	181.117-014	M'NE SUPERINTENDENT	5 4 4	FOUR TO TEN YEARS
15.0903	PETROLEUM TECHNOLOGY	181.167-010	MANAGER, FIELD PARTY, GEOPHYSICAL P	4 4 4	ONE TO TWO YEARS
		181.167-014	SUPERINTENDENT, DRILLING AND PRODUC	5 5 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1370

MANAGERS: ADMINISTRATIVE SERVICES

These workers manage the supportive services of a business, agency, or organization. Some direct activities concerned with the purchase or sale of materials or services. Others direct clerical functions, benefit programs, or repair and maintenance activities. They review reports and records and plan department activities. They assign duties to staff and prepare work schedules and budgets. They review operations, write reports, enforce rules, and help staff solve work problems. They also may deal with outside organizations on matters such as business services or contracts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	163.167-026	PROPERTY-DISPOSAL OFFICER	5 5 5	TWO TO FOUR YEARS
		187.117-062	RADIOLOGY ADMINISTRATOR	5 5 5	TWO TO FOUR YEARS
		188.117-086	DIRECTOR, MERIT SYSTEM	4 4 4	SIX TO 12 MONTHS
		188.117-122	PROPERTY-UTILIZATION OFFICER	5 4 4	FOUR TO TEN YEARS
		188.167-106	UNCLAIMED PROPERTY OFFICER	4 4 4	TWO TO FOUR YEARS
06.0402	CONTRACT MANAGEMENT AND PROCUREMENT/PURC	*162.117-014	CONTRACT ADMINISTRATOR	5 3 5	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	189.167-022	MANAGER, DEPARTMENT	4 4 4	TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	169.167-034	MANAGER, OFFICE	4 3 4	TWO TO FOUR YEARS
		189.167-022	MANAGER, DEPARTMENT	4 4 4	TWO TO FOUR YEARS
		189.167-030	PROGRAM MANAGER	5 5 5	FOUR TO TEN YEARS
07.0503	PERSONNEL ASSISTING	166.267-030	RETIREMENT OFFICER	5 5 4	TWO TO FOUR YEARS
08.0704	PURCHASING	162.117-014	CONTRACT ADMINISTRATOR	5 3 5	FOUR TO TEN YEARS
08.0705	RETAILING	189.167-022	MANAGER, DEPARTMENT	4 4 4	TWO TO FOUR YEARS
18.0701	HEALTH SERVICES ADMINISTRATION	*187.117-062	RADIOLOGY ADMINISTRATOR	5 5 5	TWO TO FOUR YEARS
19.0705	GERONTOLOGICAL SERVICES	*166.267-030	RETIREMENT OFFICER	5 5 4	TWO TO FOUR YEARS
47.0604	AUTOMOTIVE MECHANICS	375.167-018	COMMANDING OFFICER, MOTOR EQUIPMENT	4 3 4	FOUR TO TEN YEARS

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OCCUPATION: 1390

OFFICIALS AND ADMINISTRATORS, OTHER, N.E.C.

These workers plan, direct, and control the activities of a department or program, within a business or agency. For example, some manage sales or service programs or direct a company's projects. They often work through supervisors to implement policies and procedures and select, train, and supervise staff. They prepare budgets and reports, review operations, and enforce company policies and rules. They also assist with difficult administrative or technical problems, and arrange business services and contracts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	165.117-014	DIRECTOR, FUNDS DEVELOPMENT	5	4	5	TWO TO FOUR YEARS
		169.167-062	COORDINATOR, SKILL-TRAINING PROGRAM	5	4	4	ONE TO TWO YEARS
		189.117-030	PROJECT DIRECTOR	5	5	5	FOUR TO TEN YEARS
		189.117-038	USER REPRESENTATIVE, INTERNATIONAL	5	5	5	FOUR TO TEN YEARS
01.0204	AGRICULTURAL POWER MACHINERY	187.167-082	MANAGER, CUSTOMER SERVICES	4	4	4	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	185.167-042	MANAGER, PROFESSIONAL EQUIPMENT SAL	5	4	4	TWO TO FOUR YEARS
		186.117-018	CUSTOMS-HOUSE BROKER	5	4	5	FOUR TO TEN YEARS
		189.167-014	DIRECTOR, SERVICE	5	4	4	TWO TO FOUR YEARS
		189.167-018	MANAGEMENT TRAINEE	4	4	4	ONE TO TWO YEARS
		191.167-018	LOCATION MANAGER	4	3	4	ONE TO TWO YEARS
06.1701	REAL ESTATE	191.167-018	LOCATION MANAGER	4	3	4	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	163.167-014	MANAGER, CIRCULATION	5	3	4	FOUR TO TEN YEARS
		189.167-014	DIRECTOR, SERVICE	5	4	4	TWO TO FOUR YEARS
		189.167-018	MANAGEMENT TRAINEE	4	4	4	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	185.167-042	MANAGER, PROFESSIONAL EQUIPMENT SAL	5	4	4	TWO TO FOUR YEARS
08.0703	INTERNATIONAL MARKETING	186.117-018	CUSTOMS-HOUSE BROKER	5	4	5	FOUR TO TEN YEARS
08.0705	RETAILING	189.167-014	DIRECTOR, SERVICE	5	4	4	TWO TO FOUR YEARS
		189.167-018	MANAGEMENT TRAINEE	4	4	4	ONE TO TWO YEARS
08.0708	MARKETING, GENERAL	*185.167-042	MANAGER, PROFESSIONAL EQUIPMENT SAL	5	4	4	TWO TO FOUR YEARS
13.1319	TECHNICAL EDUCATION	*169.167-062	COORDINATOR, SKILL-TRAINING PROGRAM	5	4	4	ONE TO TWO YEARS
13.1320	TRADE AND INDUSTRIAL EDUCATION	*169.167-062	COORDINATOR, SKILL-TRAINING PROGRAM	5	4	4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1400

MANAGEMENT-RELATED OCCUPATIONS

Workers in these occupations provide support services for the management of businesses, industries, and institutions. They may provide financial information or accounting services. Others purchase goods for resale or use in company operations. Some workers hire and train personnel while others analyze company operations and advise management. Managers depend on these workers who implement their plans, advise them on operations, and recommend changes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1410

ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS

Workers in these occupations examine and evaluate financial information in order to advise their employer or clients. They may examine financial records, statistical information, or credit reports. They may prepare tax forms, outline contracts, or determine financial risk. They examine all available information and help establish financial and investment plans.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1412

ACCOUNTANTS AND AUDITORS

ACCOUNTANTS and AUDITORS study financial records in order to give advice on money matters or prepare financial statements. They may prepare income tax forms or advise clients on certain business or financial decisions. They may examine clients' financial records to see if they are properly kept and reported. They may develop estate plans, accounting systems, or budgets. Some teach courses in a business or professional school, do consulting work, or serve on committees of professional organizations

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	160.167-030	AUDITOR, COUNTY OR CITY	5	5 5	ONE TO TWO YEARS
		160.167-038	AUDITOR, TAX	5	5 5	FOUR TO TEN YEARS
		160.267-014	DIRECTOR, UTILITY ACCOUNTS	5	5 5	FOUR TO TEN YEARS
06.0201	ACCOUNTING	*160.162-010	ACCOUNTANT, TAX	5	5 5	FOUR TO TEN YEARS
		*160.162-014	AUDITOR	5	5 5	FOUR TO TEN YEARS
		*160.167-010	ACCOUNTANT	5	5 5	FOUR TO TEN YEARS
		*160.167-014	ACCOUNTANT, BUDGET	5	5 5	FOUR TO TEN YEARS
		*160.167-018	ACCOUNTANT, COST	5	5 5	FOUR TO TEN YEARS
		*160.167-022	ACCOUNTANT, PROPERTY	5	5 5	FOUR TO TEN YEARS
		*160.167-026	ACCOUNTANT, SYSTEMS	5	5 5	FOUR TO TEN YEARS
		*160.167-030	AUDITOR, COUNTY OR CITY	5	5 5	ONE TO TWO YEARS
		*160.167-034	AUDITOR, INTERNAL	5	5 5	FOUR TO TEN YEARS
		*160.167-038	AUDITOR, TAX	5	5 5	FOUR TO TEN YEARS
		*160.167-042	BURSAR	5	5 5	TWO TO FOUR YEARS
06.0301	BANKING AND FINANCE	*160.267-010	CREDIT ANALYST, CHIEF	5	5 5	FOUR TO TEN YEARS
06.1901	TAXATION	*160.162-010	ACCOUNTANT, TAX	5	5 5	FOUR TO TEN YEARS
		*160.167-038	AUDITOR, TAX	5	5 5	FOUR TO TEN YEARS
07.0102	ACCOUNTING AND COMPUTING	160.162-010	ACCOUNTANT, TAX	5	5 5	FOUR TO TEN YEARS
		160.162-014	AUDITOR	5	5 5	FOUR TO TEN YEARS
		160.167-010	ACCOUNTANT	5	5 5	FOUR TO TEN YEARS
		160.167-014	ACCOUNTANT, BUDGET	5	5 5	FOUR TO TEN YEARS
		160.167-018	ACCOUNTANT, COST	5	5 5	FOUR TO TEN YEARS
		160.167-022	ACCOUNTANT, PROPERTY	5	5 5	FOUR TO TEN YEARS
		160.167-026	ACCOUNTANT, SYSTEMS	5	5 5	FOUR TO TEN YEARS
		160.167-034	AUDITOR, INTERNAL	5	5 5	FOUR TO TEN YEARS
		160.167-042	BURSAR	5	5 5	TWO TO FOUR YEARS
08.0401	FINANCIAL SERVICES MARKETING	160.267-010	CREDIT ANALYST, CHIEF	5	5 5	FOUR TO TEN YEARS
13.0406	HIGHER EDUCATION ADMINISTRATION	*160.167-042	BURSAR	5	5 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1412 ACCOUNTANTS AND AUDITORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
13.0407	COMMUNITY COLLEGE EDUCATION ADMINISTRATI	*160.167-042	BURSAR	5 5 5 TWO TO FOUR YEARS

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OCCUPATION: 1414

UNDERWRITERS

UNDERWRITERS decide what risks the insurance companies they work for will insure. To make these decisions, they study information on insurance applications and loss-control, medical, and actuarial reports. They may outline the terms of contracts or policies, including the amounts of premiums. They often deal with clients, agents, and managers to obtain or give out information about policies. Most specialize in one of three major categories of insurance: Life, Property and Liability, or Health.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
07.0203	INSURANCE CLERK	169.167-058	UNDERWRITER	5 4 5 TWO TO FOUR YEARS
08.1001	INSURANCE MARKETING	169.167-058	UNDERWRITER	5 4 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1415

LOAN OFFICERS

LOAN OFFICERS evaluate the credit and collateral of individuals and businesses applying for a loan. (Collateral means stocks, bonds, property, or other securities pledged for the payment of a loan.) They may handle installment, commercial, real estate, or farm loans. To evaluate loan applications, they must understand economics, production, marketing, and commerce law. They also must know business operations and be able to understand financial statements, prepare letters, reports, and loan agreements.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.0301	BANKING AND FINANCE	*186.267-018	LOAN OFFICER	5 4 4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	186.267-018	LOAN OFFICER	5 4 4	TWO TO FOUR YEARS
08.0401	FINANCIAL SERVICES MARKETING	186.267-014	LOAN COUNSELOR	5 4 5	TWO TO FOUR YEARS
		186.267-018	LOAN OFFICER	5 4 4	TWO TO FOUR YEARS

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OCCUPATION: 1419

FINANCIAL OFFICERS, OTHER

These workers counsel clients or businesses on the wise use of money. They may run credit analysis, budgeting, or trust management programs. Some plan ways for debtors to pay their bills and accounts. Some manage departments that prepare budgets for a business or agency. Some evaluate credit applications or direct credit investigations. Some direct student financial aid programs. These workers supervise staff work, and deal directly with management, clients, and the public. They study financial statements, write reports, and keep detailed financial records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	161.117-010	BUDGET OFFICER	5 5 5	FOUR TO TEN YEARS
		161.267-030	BUDGET ANALYST	5 3 4	TWO TO FOUR YEARS
		169.267-018	FINANCIAL-AID COUNSELOR	4 4 4	SIX TO 12 MONTHS
		186.117-026	FACTORER	5 5 4	FOUR TO TEN YEARS
		186.117-066	RISK AND INSURANCE MANAGER	5 4 4	FOUR TO TEN YEARS
		241.267-022	CREDIT ANALYST	4 3 4	TWO TO FOUR YEARS
06.0201	ACCOUNTING	*161.117-010	BUDGET OFFICER	5 5 5	FOUR TO TEN YEARS
06.0301	BANKING AND FINANCE	*161.267-014	CREDIT OFFICER, DEALER ACCOUNTS	5 5 4	TWO TO FOUR YEARS
		*186.117-026	FACTORER	5 5 4	FOUR TO TEN YEARS
		*186.117-050	NEGOTIATOR, LETTER OF CREDIT	5 4 4	TWO TO FOUR YEARS
		*186.117-066	RISK AND INSURANCE MANAGER	5 4 4	FOUR TO TEN YEARS
		*186.117-074	TRUST OFFICER	5 5 5	FOUR TO TEN YEARS
		*186.167-010	ESTATE PLANNER	5 4 5	TWO TO FOUR YEARS
		*186.167-014	FOREIGN-EXCHANGE TRADER	5 4 4	FOUR TO TEN YEARS
		*186.167-050	OPERATIONS OFFICER	5 5 4	TWO TO FOUR YEARS
		*186.167-058	SECURITIES TRADER 2	6 5 5	FOUR TO TEN YEARS
06.0801	INSURANCE AND RISK MANAGEMENT	*186.117-066	RISK AND INSURANCE MANAGER	5 4 4	FOUR TO TEN YEARS
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*186.117-026	FACTORER	5 5 4	FOUR TO TEN YEARS
		*186.117-050	NEGOTIATOR, LETTER OF CREDIT	5 4 4	TWO TO FOUR YEARS
		*186.167-014	FOREIGN-EXCHANGE TRADER	5 4 4	FOUR TO TEN YEARS
06.1001	INVESTMENTS AND SECURITIES	*186.117-074	TRUST OFFICER	5 5 5	FOUR TO TEN YEARS
		*186.167-010	ESTATE PLANNER	5 4 5	TWO TO FOUR YEARS
		*186.167-058	SECURITIES TRADER 2	6 5 5	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	161.267-014	CREDIT OFFICER, DEALER ACCOUNTS	5 5 4	TWO TO FOUR YEARS
		168.167-054	MANAGER, CREDIT AND COLLECTION	5 5 5	FOUR TO TEN YEARS
		186.117-050	NEGOTIATOR, LETTER OF CREDIT	5 4 4	TWO TO FOUR YEARS
		186.117-074	TRUST OFFICER	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1419 OTHER FINANCIAL OFFICERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		186.167-010	ESTATE PLANNER	5 4 5	TWO TO FOUR YEARS
		186.167-058	SECURITIES TRADER 2	6 5 5	FOUR TO TEN YEARS
		186.267-010	BONDING AGENT	4 3 4	CNE TO TWO YEARS
07.0102	ACCOUNTING AND COMPUTING	160.207-010	CREDIT COUNSELOR	5 5 5	TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	168.167-054	MANAGER, CREDIT AND COLLECTION	5 5 5	FOUR TO TEN YEARS
		186.167-050	OPERATIONS OFFICER	5 5 4	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	186.267-010	BONDING AGENT	4 3 4	ONE TO TWO YEARS
08.0401	FINANCIAL SERVICES MARKETING	160.207-010	CREDIT COUNSELOR	5 5 5	TWO TO FOUR YEARS
		161.267-014	CREDIT OFFICER, DEALER ACCOUNTS	5 5 4	TWO TO FOUR YEARS
		168.167-054	MANAGER, CREDIT AND COLLECTION	5 5 5	FOUR TO TEN YEARS
		186.117-050	NEGOTIATOR, LETTER OF CREDIT	5 4 4	TWO TO FOUR YEARS
		186.117-074	TRUST OFFICER	5 5 5	FOUR TO TEN YEARS
		186.167-014	FOREIGN-EXCHANGE TRADER	5 4 4	FOUR TO TEN YEARS
		186.167-058	SECURITIES TRADER 2	6 5 5	FOUR TO TEN YEARS
		191.267-014	CREDIT ANALYST	5 4 5	FOUR TO TEN YEARS
		241.267-022	CREDIT ANALYST	4 3 4	TWO TO FOUR YEARS
08.0703	INTERNATIONAL MARKETING	186.167-014	FOREIGN-EXCHANGE TRADER	5 4 4	FOUR TO TEN YEARS
08.1001	INSURANCE MARKETING	186.167-010	ESTATE PLANNER	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 1420

MANAGEMENT ANALYSTS

These workers analyze business operations to find ways to help management operate more efficiently and effectively. They conduct studies, design new work systems and procedures, look for ways to simplify work, and prepare procedures manuals. For example, they might plan a new system for filing and protecting records and reports. They might sketch the layout for new office machines, or develop ways to improve business reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	161.117-014	DIRECTOR, RECORDS MANAGEMENT	5 4 5	FOUR TO TEN YEARS
		161.167-010	MANAGEMENT ANALYST	5 5 5	TWO TO FOUR YEARS
		161.167-014	MANAGER, FORMS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		161.167-018	MANAGER, RECORDS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		161.167-022	MANAGER, REPORTS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		161.267-010	CLERICAL-METHODS ANALYST	5 5 4	TWO TO FOUR YEARS
		161.267-018	FORMS ANALYST	4 3 4	TWO TO FOUR YEARS
		161.267-022	RECORDS-MANAGEMENT ANALYST	4 3 4	TWO TO FOUR YEARS
		161.267-026	REPORTS ANALYST	4 3 4	TWO TO FOUR YEARS
06.0501	BUSINESS ECONOMICS	*161.167-010	MANAGEMENT ANALYST	5 5 5	TWO TO FOUR YEARS
06.1201	MANAGEMENT INFORMATION SYSTEMS	*161.117-014	DIRECTOR, RECORDS MANAGEMENT	5 4 5	FOUR TO TEN YEARS
		*161.167-014	MANAGER, FORMS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		*161.167-018	MANAGER, RECORDS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		*161.167-022	MANAGER, REPORTS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		*161.267-018	FORMS ANALYST	4 3 4	TWO TO FOUR YEARS
		*161.267-022	RECORDS-MANAGEMENT ANALYST	4 3 4	TWO TO FOUR YEARS
		*161.267-026	REPORTS ANALYST	4 3 4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	161.117-014	DIRECTOR, RECORDS MANAGEMENT	5 4 5	FOUR TO TEN YEARS
		161.167-018	MANAGER, RECORDS ANALYSIS	5 4 4	FOUR TO TEN YEARS
		161.167-022	MANAGER, REPORTS ANALYSIS	5 4 4	FOUR TO TEN YEARS
06.1501	ORGANIZATIONAL BEHAVIOR	*161.167-010	MANAGEMENT ANALYST	5 5 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1430

PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS

These people make sure that workers and work activities are handled according to set procedures. PERSONNEL SPECIALISTS recruit, select, and place workers. They also prepare job descriptions and conduct benefit, safety, and other programs. TRAINING SPECIALISTS lead training sessions, prepare training manuals, and advise workers. LABOR RELATIONS SPECIALISTS help develop, interpret, and enforce union contracts, and help to settle work related disputes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	079.127-010	INSERVICE COORDINATOR, AUXILIARY PE	5 4 5	TWO TO FOUR YEARS
		099.167-010	CERTIFICATION AND SELECTION SPECIAL	6 5 5	FOUR TO TEN YEARS
		166.167-010	CONTESTANT COORDINATOR	4 3 4	SIX TO 12 MONTHS
		166.167-042	SENIOR ENLISTED ADVISOR	3 3 3	SIX TO 12 MONTHS
		166.267-034	JOB DEVELOPMENT SPECIALIST	4 3 4	SIX TO 12 MONTHS
		166.267-038	PERSONNEL RECRUITER	5 3 5	TWO TO FOUR YEARS
		169.107-010	ARBITRATOR	5 4 5	FOUR TO TEN YEARS
		169.207-010	CONCILIATOR	5 4 5	FOUR TO TEN YEARS
06.0601	HUMAN RESOURCES DEVELOPMENT	*166.067-010	OCCUPATIONAL ANALYST	5 4 5	TWO TO FOUR YEARS
		*166.117-014	MANAGER, EMPLOYEE WELFARE	5 4 5	TWO TO FOUR YEARS
		*166.167-014	DIRECTOR OF PLACEMENT	6 5 5	FOUR TO TEN YEARS
		*166.167-034	MANAGER, LABOR RELATIONS	5 4 5	FOUR TO TEN YEARS
		*166.267-018	JOB ANALYST	5 4 5	ONE TO TWO YEARS
		*166.267-026	RECRUITER	4 2 3	SIX TO 12 MONTHS
		*166.267-034	JOB DEVELOPMENT SPECIALIST	4 3 4	SIX TO 12 MONTHS
		*166.267-038	PERSONNEL RECRUITER	5 3 5	TWO TO FOUR YEARS
06.0801	INSURANCE AND RISK MANAGEMENT	*166.167-046	SPECIAL AGENT	5 3 5	FOUR TO TEN YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*166.117-014	MANAGER, EMPLOYEE WELFARE	5 4 5	TWO TO FOUR YEARS
		*166.167-022	MANAGER, COMPENSATION	5 5 5	FOUR TO TEN YEARS
		*166.167-034	MANAGER, LABOR RELATIONS	5 4 5	FOUR TO TEN YEARS
		*169.107-010	ARBITRATOR	5 4 5	FOUR TO TEN YEARS
		*169.207-010	CONCILIATOR	5 4 5	FOUR TO TEN YEARS
06.1501	ORGANIZATIONAL BEHAVIOR	*166.167-034	MANAGER, LABOR RELATIONS	5 4 5	FOUR TO TEN YEARS
06.1601	PERSONNEL MANAGEMENT	*166.117-014	MANAGER, EMPLOYEE WELFARE	5 4 5	TWO TO FOUR YEARS
		*166.167-014	DIRECTOR OF PLACEMENT	6 5 5	FOUR TO TEN YEARS
		*166.167-022	MANAGER, COMPENSATION	5 5 5	FOUR TO TEN YEARS
		*166.167-034	MANAGER, LABOR RELATIONS	5 4 5	FOUR TO TEN YEARS
		*166.267-026	RECRUITER	4 2 3	SIX TO 12 MONTHS
		*166.267-038	PERSONNEL RECRUITER	5 3 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1430 PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALIST (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0503	PERSONNEL ASSISTING	166.067-010	OCCUPATIONAL ANALYST	5 4 5	TWO TO FOUR YEARS
		166.117-014	MANAGER, EMPLOYEE WELFARE	5 4 5	TWO TO FOUR YEARS
		166.167-014	DIRECTOR OF PLACEMENT	6 5 5	FOUR TO TEN YEARS
		166.167-022	MANAGER, COMPENSATION	5 5 5	FOUR TO TEN YEARS
		166.167-034	MANAGER, LABOR RELATIONS	5 4 5	FOUR TO TEN YEARS
		166.167-038	PORT PURSER	5 4 4	FOUR TO TEN YEARS
		166.267-010	EMPLOYMENT INTERVIEWER	5 3 5	SIX TO 12 MONTHS
		166.267-018	JOB ANALYST	5 4 5	ONE TO TWO YEARS
		166.267-022	PRISONER-CLASSIFICATION INTERVIEWER	5 3 4	TWO TO FOUR YEARS
		166.267-026	RECRUITER	4 2 3	SIX TO 12 MONTHS
		169.367-010	EMPLOYMENT-AND-CLAIMS AIDE	3 3 3	SIX TO 12 MONTHS
08.1001	INSURANCE MARKETING	166.167-046	SPECIAL AGENT	5 3 5	FOUR TO TEN YEARS
		166.267-014	HOSPITAL-INSURANCE REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
13.0405	ELEMENTARY AND SECONDARY EDUCATION ADMIN	*099.167-010	CERTIFICATION AND SELECTION SPECIAL	6 5 5	FOUR TO TEN YEARS
13.1101	STUDENT COUNSELING AND PERSONNEL SERVICE	*166.167-014	DIRECTOR OF PLACEMENT	6 5 5	FOUR TO TEN YEARS
		*166.267-026	RECRUITER	4 2 3	SIX TO 12 MONTHS
18.0701	HEALTH SERVICES ADMINISTRATION	*079.127-010	INSERVICE COORDINATOR, AUXILIARY PE	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 1440

PURCHASING AGENTS AND BUYERS

These workers represent companies and institutions as they buy goods and contract for services. They examine similar products, determine the best value, and arrange contracts to purchase goods. They ask companies to bid items they sell. They talk with sales agents and visit wholesale houses. The goods they buy are resold in commercial stores or are used in the operation of a business, industry, or educational institution, so agents buy at special prices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1442

BUYERS: WHOLESALE AND RETAIL TRADE, EXCEPT FARM PRODUCTS

These people buy goods for resale in wholesale and retail stores. They attend fashion and trade shows, visit showrooms, or talk with sales workers to select merchandise that will satisfy their stores' customers. A BUYER for a small store may purchase its complete stock of goods. Those who work for larger businesses usually handle one or a few related lines of goods. BUYERS must be able to judge the resale value of goods and make a purchase decision quickly. They also arrange for goods to be shipped and approve payments for orders received.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
01.0102	AGRICULTURAL BUSINESS	*162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
01.0503	AGRICULTURAL SUPPLIES MARKETING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
01.0701	INTERNATIONAL AGRICULTURE	*162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
04.0501	INTERIOR DESIGN	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
06.0402	CONTRACT MANAGEMENT AND PROCUREMENT/PURC	*162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
08.0703	INTERNATIONAL MARKETING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
08.0704	PURCHASING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
08.0705	RETAILING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
08.0707	WHOLESALE	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
08.0904	RECREATIONAL PRODUCTS MARKETING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
20.0306	FASHION/FABRIC COORDINATION	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
20.0308	WEDDING/SPECIALTY CONSULTING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS
20.0505	HOME DECORATING	162.157-018	BUYER	4	3 4	ONE TO TWO YEARS
		162.157-022	BUYER, ASSISTANT	4	3 3	ONE TO TWO YEARS

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OCCUPATION: 1443

PURCHASING AGENTS AND BUYERS, FARM PRODUCTS

These workers buy farm products such as grain or tobacco for individuals or wholesale companies. They also may sell the products and arrange for their shipment and storage.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-CED-
CODE TITLE	CODE TITLE	R M I TRAINING TIME
01.0102 AGRICULTURAL BUSINESS	*162.117-010 CHRISTMAS-TREE CONTRACTOR	5 3 5 TWO TO FOUR YEARS
	*162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
	*162.167-010 BUYER, GRAIN	5 3 4 FOUR TO TEN YEARS
01.0503 AGRICULTURAL SUPPLIES MARKETING	162.117-010 CHRISTMAS-TREE CONTRACTOR	5 3 5 TWO TO FOUR YEARS
	162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
	162.167-010 BUYER, GRAIN	5 3 4 FOUR TO TEN YEARS
	162.167-014 BUYER, TOBACCO, HEAD	4 3 4 TWO TO FOUR YEARS
	162.167-018 CLEAN-RICE BROKER	5 5 5 TWO TO FOUR YEARS
01.0701 INTERNATIONAL AGRICULTURE	*162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
	*162.167-010 BUYER, GRAIN	5 3 4 FOUR TO TEN YEARS
03.0402 FOREST PRODUCTION	162.117-010 CHRISTMAS-TREE CONTRACTOR	5 3 5 TWO TO FOUR YEARS
06.0402 CONTRACT MANAGEMENT AND PROCUREMENT/PURC	*162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
	*162.167-010 BUYER, GRAIN	5 3 4 FOUR TO TEN YEARS
	*162.167-014 BUYER, TOBACCO, HEAD	4 3 4 TWO TO FOUR YEARS
08.0401 FINANCIAL SERVICES MARKETING	162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
08.0703 INTERNATIONAL MARKETING	162.167-018 CLEAN-RICE BROKER	5 5 5 TWO TO FOUR YEARS
08.0704 PURCHASING	162.117-010 CHRISTMAS-TREE CONTRACTOR	5 3 5 TWO TO FOUR YEARS
	162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
08.0706 SALES	162.167-018 CLEAN-RICE BROKER	5 5 5 TWO TO FOUR YEARS
08.0707 WHOLESALING	162.157-010 BROKER-AND-MARKET OPERATOR, GRAIN	5 4 4 TWO TO FOUR YEARS
	162.167-010 BUYER, GRAIN	5 3 4 FOUR TO TEN YEARS
	162.167-014 BUYER, TOBACCO, HEAD	4 3 4 TWO TO FOUR YEARS
	162.167-018 CLEAN-RICE BROKER	5 5 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1449

PURCHASING AGENTS AND BUYERS, N.E.C.

These people buy supplies and raw materials for internal use or for further processing by manufacturing firms. They review internal requests for materials and supplies, collect information on the sources and prices of goods, and contact vendors or suppliers to arrange purchase contracts. They also may negotiate for purchase of services, such as the delivery of supplies. They advise suppliers concerning the type, quality, and amount of materials needed in the future. They also may arrange financing or other assistance so that the desired materials can be made available. These workers keep records of items bought, costs, product performance, and inventories. They also may write reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	I	
00.0000	NO CIP ASSIGNED	169.167-054	TOOLING COORDINATOR, PRODUCTION ENG	4	4	4	TWO TO FOUR YEARS
01.0302	ANIMAL PRODUCTION	162.117-026	FIELD-CONTACT TECHNICIAN	5	3	5	TWO TO FOUR YEARS
01.0503	AGRICULTURAL SUPPLIES MARKETING	162.117-022	FIELD CONTRACTOR	5	3	5	TWO TO FOUR YEARS
		162.117-026	FIELD-CONTACT TECHNICIAN	5	3	5	TWO TO FOUR YEARS
		162.157-038	PURCHASING AGENT	4	3	4	TWO TO FOUR YEARS
02.0206	DAIRY	162.117-026	FIELD-CONTACT TECHNICIAN	5	3	5	TWO TO FOUR YEARS
06.0402	CONTRACT MANAGEMENT AND PROCUREMENT/PURC	*162.117-018	CONTRACT SPECIALIST	5	3	4	FOUR TO TEN YEARS
		*162.117-022	FIELD CONTRACTOR	5	3	5	TWO TO FOUR YEARS
		*162.117-026	FIELD-CONTACT TECHNICIAN	5	3	5	TWO TO FOUR YEARS
		*162.157-034	PROCUREMENT ENGINEER	5	5	5	TWO TO FOUR YEARS
		*162.157-038	PURCHASING AGENT	4	3	4	TWO TO FOUR YEARS
		*162.167-030	PURCHASE-PRICE ANALYST	5	5	4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	*163.117-010	MANAGER, CONTRACTS	5	5	5	TWO TO FOUR YEARS
		162.157-038	PURCHASING AGENT	4	3	4	TWO TO FOUR YEARS
08.0102	FASHION MERCHANDISING	163.117-010	MANAGER, CONTRACTS	5	5	5	TWO TO FOUR YEARS
08.0702	INDUSTRIAL SALES	162.117-018	CONTRACT SPECIALIST	5	3	4	FOUR TO TEN YEARS
08.0704	PURCHASING	162.117-022	FIELD CONTRACTOR	5	3	5	TWO TO FOUR YEARS
		162.117-026	FIELD-CONTACT TECHNICIAN	5	3	5	TWO TO FOUR YEARS
		162.157-030	OUTSIDE PROPERTY AGENT	4	4	4	TWO TO FOUR YEARS
		162.157-034	PROCUREMENT ENGINEER	5	5	5	TWO TO FOUR YEARS
		162.157-038	PURCHASING AGENT	4	3	4	TWO TO FOUR YEARS
		162.167-030	PURCHASE-PRICE ANALYST	5	5	4	TWO TO FOUR YEARS
08.1204	PETROLEUM WHOLESALE	163.117-010	MANAGER, CONTRACTS	5	5	5	TWO TO FOUR YEARS

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1009 PURCHASING AGENTS AND BUYERS, NOT ELSEWHERE CLASSIF (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
15.0603	INDUSTRIAL TECHNOLOGY	169.167-054	TOOLING COORDINATOR, PRODUCTION ENG	4 4 4	TWO TO FOUR YEARS
20.0405	FOOD CATERING	162.157-038	PURCHASING AGENT	4 3 4	TWO TO FOUR YEARS
20.0406	FOOD SERVICE	162.157-038	PURCHASING AGENT	4 3 4	TWO TO FOUR YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1450

BUSINESS AND PROMOTION AGENTS

BUSINESS and PROMOTION AGENTS handle business affairs for clients such as: performers, societies, theater companies, writers and jockeys. They advise clients on business matters, represent them in contract talks, and arrange their tours and engagements. They may handle publicity, fan mail, and requests for personal appearances. Some market writers' works to editors and publishers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	189.167-026	MEMBERSHIP DIRECTOR	5 4 4	TWO TO FOUR YEARS
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	191.117-014	BOOKING MANAGER	4 4 4	ONE TO TWO YEARS
		191.117-022	CIRCUS AGENT	4 3 4	TWO TO FOUR YEARS
		191.117-038	MANAGER, TOURING PRODUCTION	4 3 4	TWO TO FOUR YEARS
		191.167-010	ADVANCE AGENT	4 4 4	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	191.117-010	ARTIST'S MANAGER	5 4 5	TWO TO FOUR YEARS
		191.117-018	BUSINESS MANAGER	5 4 5	TWO TO FOUR YEARS
		191.117-026	JOCKEY AGENT	4 3 4	SIX TO 12 MONTHS
		191.117-034	LITERARY AGENT	5 4 5	TWO TO FOUR YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	191.117-014	BOOKING MANAGER	4 4 4	ONE TO TWO YEARS
		191.117-018	BUSINESS MANAGER	5 4 5	TWO TO FOUR YEARS
		191.167-010	ADVANCE AGENT	4 4 4	TWO TO FOUR YEARS

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OCCUPATION: 1470

INSPECTORS AND COMPLIANCE OFFICERS

These workers inspect businesses and industries to insure that rules, regulations, and codes are obeyed. They visit building sites to see that construction work meets code standards. They may visit industrial sites to insure that safety regulations are in force. Or they may inspect hospitals, restaurants, or food packing plants to enforce public health laws. Other workers may investigate ways to help businesses operate more efficiently or profitably.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1472

CONSTRUCTION INSPECTORS

CONSTRUCTION INSPECTORS make sure that the methods and materials used to build and repair structures meet with regulations. They inspect structures and visit work sites to observe and test parts of structures. They use blueprints and tests and measuring instruments, keep work logs, file work reports, and if necessary, issue 'stop-work' orders. Most workers specialize in a certain type of construction work, such as building, electrical, mechanical, or public works.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	168.267-010 BUILDING INSPECTOR 899.487-010 TESTER	4 3 4 TWO TO FOUR YEARS 2 1 2 30 10 90 DAYS
15.0101 ARCHITECTURAL DESIGN AND CONSTRUCTION TE	168.167-030 INSPECTOR, BUILDING 168.167-050 INSPECTOR, PLUMBING 168.267-010 BUILDING INSPECTOR 182.267-010 CONSTRUCTION INSPECTOR	5 4 4 TWO TO FOUR YEARS 5 4 4 TWO TO FOUR YEARS 4 3 4 TWO TO FOUR YEARS 4 4 3 ONE TO TWO YEARS
15.0201 CIVIL TECHNOLOGY	850.387-010 INSPECTOR OF DREDGING	4 3 3 ONE TO TWO YEARS
15.0302 ELECTRICAL TECHNOLOGY	168.167-034 INSPECTOR, ELECTRICAL	5 4 4 TWO TO FOUR YEARS
15.0403 ELECTROMECHANICAL TECHNOLOGY	168.167-038 INSPECTOR, ELEVATORS	5 4 5 FOUR TO TEN YEARS
15.0501 AIR CONDITIONING, HEATING, AND REFRIGERA	168.167-046 INSPECTOR, HEATING AND REFRIGERATIO	5 4 4 TWO TO FOUR YEARS
15.0701 OCCUPATIONAL SAFETY AND HEALTH TECHNOLOG	168.267-010 BUILDING INSPECTOR	4 3 4 TWO TO FOUR YEARS
15.1001 CONSTRUCTION TECHNOLOGY	*182.267-010 CONSTRUCTION INSPECTOR	4 4 3 ONE TO TWO YEARS
43.0201 FIRE CONTROL AND SAFETY TECHNOLOGY	168.167-030 INSPECTOR, BUILDING 168.167-034 INSPECTOR, ELECTRICAL 168.167-046 INSPECTOR, HEATING AND REFRIGERATIO	5 4 4 TWO TO FOUR YEARS 5 4 4 TWO TO FOUR YEARS 5 4 4 TWO TO FOUR YEARS
46.0302 ELECTRICIAN	168.167-034 INSPECTOR, ELECTRICAL	5 4 4 TWO TO FOUR YEARS
46.0403 CONSTRUCTION INSPECTION	168.167-030 INSPECTOR, BUILDING 168.167-034 INSPECTOR, ELECTRICAL 168.167-038 INSPECTOR, ELEVATORS 168.167-046 INSPECTOR, HEATING AND REFRIGERATIO 168.167-050 INSPECTOR, PLUMBING 168.267-010 BUILDING INSPECTOR 168.267-102 PLAN CHECKER 182.267-010 CONSTRUCTION INSPECTOR	5 4 4 TWO TO FOUR YEARS 5 4 4 TWO TO FOUR YEARS 5 4 5 FOUR TO TEN YEARS 5 4 4 TWO TO FOUR YEARS 5 4 4 TWO TO FOUR YEARS 4 3 4 TWO TO FOUR YEARS 4 4 4 TWO TO FOUR YEARS 4 4 3 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1472 CONSTRUCTION INSPECTORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		850.387-010	INSPECTOR OF DREDGING	4 3 3	ONE TO TWO YEARS
46.0503	PLUMBING	168.167-050	INSPECTOR, PLUMBING	5 4 4	TWO TO FOUR YEARS
47.0202	COOLING AND REFRIGERATION	168.167-046	INSPECTOR, HEATING AND REFRIGERATIO	5 4 4	TWO TO FOUR YEARS
47.0203	HEATING AND AIR CONDITIONING	168.167-046	INSPECTOR, HEATING AND REFRIGERATIO	5 4 4	TWO TO FOUR YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.467-010	GRADE CHECKER	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 1473

INSPECTORS AND COMPLIANCE OFFICERS, EXCEPT CONSTRUCTION
 These workers conduct inspections or investigations to see if laws, regulations, or company policies are being followed. They work in a variety of jobs and settings. Some check to see that proper equipment is being used and that safety rules are being obeyed. Some inspect places such as hospitals and restaurants to enforce public health laws. Some compile information on the activities and conduct of workers. Some inspect articles being carried into the country to enforce customs laws.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	160.167-046	CHIEF BANK EXAMINER	5	5 5	FOUR TO TEN YEARS
		158.161-010	CORONER	5	5 4	TWO TO FOUR YEARS
		168.167-014	EQUAL-OPPORTUNITY REPRESENTATIVE	5	3 5	FOUR TO TEN YEARS
		168.167-018	HEALTH OFFICER, FIELD	5	3 5	ONE TO TEN YEARS
		168.167-022	IMMIGRATION INSPECTOR	4	3 4	SIX TO 12 MONTHS
		168.167-026	INSPECTOR, BOILER	5	4 5	FOUR TO TEN YEARS
		168.167-042	INSPECTOR, HEALTH CARE FACILITIES	4	3 4	ONE TO TWO YEARS
		168.167-062	OCCUPATIONAL-SAFETY-AND-HEALTH INSP	5	5 5	ONE TO TWO YEARS
		168.167-078	SAFETY INSPECTOR	5	4 5	FOUR TO TEN YEARS
		168.167-082	TRANSPORTATION INSPECTOR	4	3 4	TWO TO FOUR YEARS
		168.167-086	SAFETY MANAGER	5	5 5	TWO TO FOUR YEARS
		168.261-010	RADIATION-PROTECTION SPECIALIST	5	4 5	FOUR TO TEN YEARS
		168.264-010	INSPECTOR, AIR-CARRIER	5	5 4	TWO TO FOUR YEARS
		168.264-014	SAFETY INSPECTOR	4	3 4	ONE TO TWO YEARS
		168.267-014	CLAIM EXAMINER	5	3 4	TWO TO FOUR YEARS
		168.267-034	DRIVER'S LICENSE EXAMINER	3	2 3	THREE TO SIX MONTHS
		168.267-042	FOOD AND DRUG INSPECTOR	5	4 5	ONE TO TWO YEARS
		168.267-046	INSPECTOR, FURNITURE AND BEDDING	4	3 4	ONE TO TWO YEARS
		168.267-050	INSPECTOR, GOVERNMENT PROPERTY	4	3 4	ONE TO TWO YEARS
		168.267-058	INSPECTOR, MOTOR VEHICLES	5	4 5	TWO TO FOUR YEARS
		168.267-074	MINE INSPECTOR	4	3 4	ONE TO TWO YEARS
		168.267-082	AGRICULTURAL-CHEMICALS INSPECTOR	4	2 3	TWO TO FOUR YEARS
		168.267-086	HAZARDOUS-WASTE MANAGEMENT SPECIALI	5	3 5	TWO TO FOUR YEARS
		168.267-094	MARINE-CARGO SURVEYOR	4	4 4	OVER 10 YEARS
		168.267-098	PESTICIDE-CONTROL INSPECTOR	4	2 3	TWO TO FOUR YEARS
		168.267-106	REGISTRATION SPECIALIST, AGRICULTUR	5	3 4	TWO TO FOUR YEARS
		168.267-110	SANITATION INSPECTOR	3	2 3	SIX TO 12 MONTHS
		168.287-014	INSPECTOR, QUALITY ASSURANCE	5	5 5	TWO TO FOUR YEARS
		168.287-018	INSPECTOR, RAILROAD	4	3 4	TWO TO FOUR YEARS
		168.367-010	ATTENDANCE OFFICER	4	2 4	TWO TO FOUR YEARS
		168.367-014	RATER, TRAVEL ACCOMMODATIONS	3	3 3	ONE TO TWO YEARS
		168.367-018	CODE INSPECTOR	3	2 3	SIX TO 12 MONTHS
		168.387-010	OPENER-VERIFIER-PACKER, CUSTOMS	3	3 3	SIX TO 12 MONTHS
		169.267-014	EXAMINER	4	4 4	ONE TO TWO YEARS

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1473 INSPECTORS AND COMPLIANCE OFFICERS, EXCEPT CONSTRUCT (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		169.267-030	PASSPORT-APPLICATION EXAMINER	4 3 4	SIX TO 12 MONTHS
		169.284-010	ADMEASURER	5 4 5	TWO TO FOUR YEARS
		188.167-038	DIRECTOR, SECURITIES AND REAL ESTAT	5 4 5	TWO TO FOUR YEARS
		188.167-074	REVENUE OFFICER	5 4 4	TWO TO FOUR YEARS
		191.367-010	PERSONAL PROPERTY ASSESSOR	3 3 3	THREE TO SIX MONTHS
01.0402	FOOD PRODUCTS	168.287-010	INSPECTOR, AGRICULTURAL COMMODITIES	4 3 4	TWO TO FOUR YEARS
02.0301	FOOD SCIENCES	168.267-042	FOOD AND DRUG INSPECTOR	5 4 5	ONE TO TWO YEARS
		168.287-010	INSPECTOR, AGRICULTURAL COMMODITIES	4 3 4	TWO TO FOUR YEARS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	168.287-010	INSPECTOR, AGRICULTURAL COMMODITIES	4 3 4	TWO TO FOUR YEARS
03.0405	LOGGING	168.267-070	LOGGING-OPERATIONS INSPECTOR	5 3 4	TWO TO FOUR YEARS
06.0701	HOTEL/MOTEL MANAGEMENT	187.167-062	MANAGER, BRANCH OPERATION EVALUATIO	4 3 4	ONE TO TWO YEARS
06.0705	TRANSPORTATION MANAGEMENT	184.163-010	TRAFFIC INSPECTOR	4 2 3	TWO TO FOUR YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*168.167-014	EQUAL-OPPORTUNITY REPRESENTATIVE	5 3 5	FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	168.267-018	CUSTOMS IMPORT SPECIALIST	5 3 5	FOUR TO TEN YEARS
		187.167-062	MANAGER, BRANCH OPERATION EVALUATIO	4 3 4	ONE TO TWO YEARS
07.0102	ACCOUNTING AND COMPUTING	160.167-050	REVENUE AGENT	5 4 4	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	168.267-026	DEALER-COMPLIANCE REPRESENTATIVE	4 3 3	ONE TO TWO YEARS
08.0703	INTERNATIONAL MARKETING	168.267-018	CUSTOMS IMPORT SPECIALIST	5 3 5	FOUR TO TEN YEARS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	187.167-062	MANAGER, BRANCH OPERATION EVALUATIO	4 3 4	ONE TO TWO YEARS
08.1204	PETROLEUM WHOLESALING	168.267-026	DEALER-COMPLIANCE REPRESENTATIVE	4 3 3	ONE TO TWO YEARS
12.0301	FUNERAL SERVICES	168.267-078	MORTICIAN INVESTIGATOR	4 3 4	ONE TO TWO YEARS
15.0503	ENERGY CONSERVATION AND USE TECHNOLOGY	959.367-018	ENERGY-CONSERVATION REPRESENTATIVE	3 3 3	30 TO 90 DAYS
15.0504	SANITATION TECHNOLOGY	168.267-042	FOOD AND DRUG INSPECTOR	5 4 5	ONE TO TWO YEARS
		168.287-010	INSPECTOR, AGRICULTURAL COMMODITIES	4 3 4	TWO TO FOUR YEARS
15.0506	WATER AND WASTEWATER TECHNOLOGY	168.267-054	INSPECTOR, INDUSTRIAL WASTE	5 4 5	ONE TO TWO YEARS

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OCCUPATION: 1473 INSPECTORS AND COMPLIANCE OFFICERS, EXCEPT CONSTRUC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		168.267-090	INSPECTOR, WATER-POLLUTION CONTROL	5 4 5	TWO TO FOUR YEARS
15.0602	FOOD PROCESSING TECHNOLOGY	168.267-042	FOOD AND DRUG INSPECTOR	5 4 5	ONE TO TWO YEARS
		168.287-010	INSPECTOR, AGRICULTURAL COMMODITIES	4 3 4	TWO TO FOUR YEARS
15.0701	OCCUPATIONAL SAFETY AND HEALTH TECHNOLOG	168.161-014	INDUSTRIAL-SAFETY-AND-HEALTH TECHNI	5 4 4	ONE TO TWO YEARS
		168.167-026	INSPECTOR, BOILER	5 4 5	FOUR TO TEN YEARS
		168.167-042	INSPECTOR, HEALTH CARE FACILITIES	4 3 4	ONE TO TWO YEARS
		168.167-062	OCCUPATIONAL-SAFETY-AND-HEALTH INSP	5 5 5	ONE TO TWO YEARS
		168.167-078	SAFETY INSPECTOR	5 4 5	FOUR TO TEN YEARS
		168.167-086	SAFETY MANAGER	5 5 5	TWO TO FOUR YEARS
		168.264-014	SAFETY INSPECTOR	4 3 4	ONE TO TWO YEARS
		168.267-074	MINE INSPECTOR	4 3 4	ONE TO TWO YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	168.167-026	INSPECTOR, BOILER	5 4 5	FOUR TO TEN YEARS
		168.287-014	INSPECTOR, QUALITY ASSURANCE	5 5 5	TWO TO FOUR YEARS
15.0902	MINING (EXCLUDING COAL) TECHNOLOGY	168.267-074	MINE INSPECTOR	4 3 4	ONE TO TWO YEARS
18.1107	PUBLIC HEALTH	*168.167-018	HEALTH OFFICER, FIELD	5 3 5	ONE TO TWO YEARS
20.0406	FOOD SERVICE	168.267-030	DINING-SERVICE INSPECTOR	4 2 3	TWO TO FOUR YEARS
41.0101	BIOLOGICAL LABORATORY TECHNOLOGY	168.167-066	QUALITY-CONTROL COORDINATOR	4 4 4	ONE TO TWO YEARS
41.0201	NUCLEAR MATERIALS HANDLING TECHNOLOGY	168.267-054	INSPECTOR, INDUSTRIAL WASTE	5 4 5	ONE TO TWO YEARS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	168.267-062	INVESTIGATOR	5 4 4	ONE TO TWO YEARS
		188.167-090	SPECIAL AGENT, CUSTOMS	5 3 5	FOUR TO TEN YEARS
43.0107	LAW ENFORCEMENT	168.167-074	REVIEWING OFFICER, DRIVER'S LICENSE	4 3 4	TWO TO FOUR YEARS
		168.267-062	INVESTIGATOR	5 4 4	ONE TO TWO YEARS
		168.267-066	LICENSE INSPECTOR	4 3 3	TWO TO FOUR YEARS
		188.167-090	SPECIAL AGENT, CUSTOMS	5 3 5	FOUR TO TEN YEARS
43.0109	SECURITY SERVICES	168.267-022	CUSTOMS INSPECTOR	4 4 4	ONE TO TWO YEARS
43.0201	FIRE CONTROL AND SAFETY TECHNOLOGY	168.167-078	SAFETY INSPECTOR	5 4 5	FOUR TO TEN YEARS
		168.264-014	SAFETY INSPECTOR	4 3 4	ONE TO TWO YEARS
44.0601	PUBLIC SANITATION	*168.267-042	FOOD AND DRUG INSPECTOR	5 4 5	ONE TO TWO YEARS
49.0102	AIRPLANE PILOTING AND NAVIGATION (COMMER	196.163-010	FLIGHT-OPERATIONS INSPECTOR	5 4 5	FOUR TO TEN YEARS

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OCCUPATION: 1473 INSPECTORS AND COMPLIANCE OFFICERS, EXCEPT CONSTRUC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		196.163-014	SUPERVISING AIRPLANE PILOT	5 5 5	FOUR TO TEN YEARS
49.0107	AIRPLANE PILOTING (PRIVATE)	*196.163-010	FLIGHT-OPERATIONS INSPECTOR	5 4 5	FOUR TO TEN YEARS
		*196.163-014	SUPERVISING AIRPLANE PILOT	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1490

MANAGEMENT-RELATED OCCUPATIONS, N.E.C.

People in these jobs do things to help an office or business operate more efficiently. Some prepare cost estimates used by management to prepare bids or to set the prices of products and services. Some coordinate office services such as personnel, budget control, and records control. Some study jobs to help set wage and promotion policies. Some set up security procedures, or keep official corporation records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	160.267-018	ESTIMATOR	4 3 4	TWO TO FOUR YEARS
		169.117-014	GRANT COORDINATOR	6 4 6	TWO TO FOUR YEARS
		169.167-026	LABORATORY ASSISTANT, LIAISON INSPE	5 5 5	TWO TO FOUR YEARS
		169.167-038	ORDER-DEPARTMENT SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		186.117-030	GENERAL CLAIMS AGENT	4 4 4	FOUR TO TEN YEARS
		187.167-198	VETERANS CONTACT REPRESENTATIVE	5 4 5	TWO TO FOUR YEARS
		189.167-034	SECURITY OFFICER	4 3 4	TWO TO FOUR YEARS
		239.167-010	COMMUNICATIONS COORDINATOR	4 3 3	TWO TO FOUR YEARS
06.0201	ACCOUNTING	*160.267-018	ESTIMATOR	4 3 4	TWO TO FOUR YEARS
06.0301	BANKING AND FINANCE	*160.267-018	ESTIMATOR	4 3 4	TWO TO FOUR YEARS
06.1701	REAL ESTATE	191.167-014	CLAIM AGENT	6 3 6	TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	169.167-010	ADMINISTRATIVE ASSISTANT	5 3 5	TWO TO FOUR YEARS
		169.167-014	ADMINISTRATIVE SECRETARY	5 4 5	FOUR TO TEN YEARS
07.0603	EXECUTIVE SECRETARIAL	169.167-010	ADMINISTRATIVE ASSISTANT	5 3 5	TWO TO FOUR YEARS
		169.167-014	ADMINISTRATIVE SECRETARY	5 4 5	FOUR TO TEN YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	184.167-250	TARIFF PUBLISHING AGENT	4 3 3	FOUR TO TEN YEARS
08.1001	INSURANCE MARKETING	169.167-050	SPECIAL AGENT, GROUP INSURANCE	5 3 5	TWO TO FOUR YEARS
09.0801	TELECOMMUNICATIONS	239.167-010	COMMUNICATIONS COORDINATOR	4 3 3	TWO TO FOUR YEARS
15.0101	ARCHITECTURAL DESIGN AND CONSTRUCTION TECHNOLOGY	160.267-018	ESTIMATOR	4 3 4	TWO TO FOUR YEARS
15.0603	INDUSTRIAL TECHNOLOGY	160.267-018	ESTIMATOR	4 3 4	TWO TO FOUR YEARS
49.0302	BARGE AND BOAT OPERATIONS	197.167-014	PURSER	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 1600

ENGINEERS, SURVEYORS, AND ARCHITECTS

These workers use technical skills to identify and utilize information about land and resources to design and develop structures, tools, machines, and products from resources and manufactured materials. They consult with clients and other specialists, do research, test methods and designs, and recommend methods of operation and production. They prepare detailed drawings and specifications as well as cost estimates.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 1610

ARCHITECTS

ARCHITECTS plan, design, and supervise the construction of homes, office buildings, and other structures. They also plan and design projects such as parks, airports, and highways. They are involved in all phases of the development of a building or project. They discuss with clients the purposes, requirements and cost of a project. They prepare detailed drawings that show the scale and structure of buildings, the dimensions of every part of the structure and location of plumbing, heating, and other units.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
00.0000	NO CIP ASSIGNED	001.061-010	ARCHITECT	6 6 6	FOUR TO TEN YEARS
		001.061-018	LANDSCAPE ARCHITECT	5 5 5	FOUR TO TEN YEARS
		001.167-010	SCHOOL-PLANT CONSULTANT	5 5 5	ONE TO TWO YEARS
04.0201	ARCHITECTURE	*001.061-010	ARCHITECT	6 6 6	FOUR TO TEN YEARS
04.0601	LANDSCAPE ARCHITECTURE	*001.061-018	LANDSCAPE ARCHITECT	5 5 5	FOUR TO TEN YEARS
04.0701	URBAN DESIGN	*001.061-010	ARCHITECT	6 6 6	FOUR TO TEN YEARS
14.0401	ARCHITECTURAL ENGINEERING	*001.061-010	ARCHITECT	6 6 6	FOUR TO TEN YEARS
		*001.061-018	LANDSCAPE ARCHITECT	5 5 5	FOUR TO TEN YEARS
		*001.167-010	SCHOOL-PLANT CONSULTANT	5 5 5	ONE TO TWO YEARS

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OCCUPATION: 1620

ENGINEERS

Engineers design, develop, and test methods of using materials for the production of tools, machines, structures, and resources. They may design engines, highways, or nuclear reactors. They may find methods of extracting metals from ores, producing fuels, or increasing agricultural production. Some engineers work in the field while others do research, teach, or do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME

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OCCUPATION: 1622

AEROSPACE ENGINEERS

AEROSPACE ENGINEERS design, develop, test, and help produce aircraft, missiles, and spacecraft. They work to advance the state of technology in aviation, defense systems, and space travel. Most specialize in a particular area of work, such as structural design, guidance and control, or production methods. They also may specialize in one type of aerospace product, such as commercial aircraft, helicopters, or rockets.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	002.061-010	AERODYNAMIST	6	6	6	FOUR TO TEN YEARS
		002.061-014	AERONAUTICAL ENGINEER	6	6	6	FOUR TO TEN YEARS
		002.061-018	AERONAUTICAL TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		002.061-022	AERONAUTICAL-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		002.061-026	AERONAUTICAL-RESEARCH ENGINEER	6	6	6	FOUR TO TEN YEARS
		002.061-030	STRESS ANALYST	5	5	5	FOUR TO TEN YEARS
		002.167-010	COST-ANALYSIS ENGINEER	6	5	6	TWO TO FOUR YEARS
		002.167-014	FIELD-SERVICE ENGINEER	5	5	5	FOUR TO TEN YEARS
		002.167-018	AERONAUTICAL PROJECT ENGINEER	6	6	6	OVER 10 YEARS
14.0201	AEROSPACE, AERONAUTICAL, AND ASTRONAUTIC	*002.061-010	AERODYNAMIST	6	6	6	FOUR TO TEN YEARS
		*002.061-014	AERONAUTICAL ENGINEER	6	6	6	FOUR TO TEN YEARS
		*002.061-018	AERONAUTICAL TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		*002.061-022	AERONAUTICAL-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		*002.061-026	AERONAUTICAL-RESEARCH ENGINEER	6	6	6	FOUR TO TEN YEARS
		*002.061-030	STRESS ANALYST	5	5	5	FOUR TO TEN YEARS
		*002.167-010	COST-ANALYSIS ENGINEER	6	5	6	TWO TO FOUR YEARS
		*002.167-014	FIELD-SERVICE ENGINEER	5	5	5	FOUR TO TEN YEARS
		*002.167-018	AERONAUTICAL PROJECT ENGINEER	6	6	6	OVER 10 YEARS

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OCCUPATION: 1623

METALLURGICAL AND MATERIALS ENGINEERS

METALLURGICAL AND MATERIALS ENGINEERS try to find new or improved ways to extract metal from ores and to make products from minerals, rocks, or metals. They also design tools and equipment to make products from materials such as clay, glass, stone, and metal.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			R M L TRAINING TIME		
CODE	TITLE	CODE	TITLE						
00.0000	NO CIP ASSIGNED	006.061-010	CERAMIC DESIGN ENGINEER	5	5	5	FOUR	10	TEN YEARS
		006.061-014	CERAMIC ENGINEER	6	6	6	FOUR	10	TEN YEARS
		006.061-018	CERAMIC RESEARCH ENGINEER	5	5	5	FOUR	10	TEN YEARS
		006.061-022	CERAMICS TEST ENGINEER	5	5	5	FOUR	10	TEN YEARS
		011.061-010	FOUNDRY METALLURGIST	5	5	5	FOUR	10	TEN YEARS
		011.061-014	METALLOGRAPHER	5	5	5	FOUR	10	TEN YEARS
		011.061-018	METALLURGIST, EXTRACTIVE	6	6	6	FOUR	10	TEN YEARS
		011.061-022	METALLURGIST, PHYSICAL	6	6	6	FOUR	10	TEN YEARS
		011.061-026	WELDING ENGINEER	5	5	5	FOUR	10	TEN YEARS
		019.061-014	MATERIALS ENGINEER	5	5	5	FOUR	10	TEN YEARS
14.0601	CERAMIC ENGINEERING	*006.061-010	CERAMIC DESIGN ENGINEER	5	5	5	FOUR	10	TEN YEARS
		*006.061-014	CERAMIC ENGINEER	6	6	6	FOUR	10	TEN YEARS
		*006.061-018	CERAMIC RESEARCH ENGINEER	5	5	5	FOUR	10	TEN YEARS
		*006.061-022	CERAMICS TEST ENGINEER	5	5	5	FOUR	10	TEN YEARS
14.1301	ENGINEERING SCIENCE	*006.061-014	CERAMIC ENGINEER	6	6	6	FOUR	10	TEN YEARS
		*019.061-014	MATERIALS ENGINEER	5	5	5	FOUR	10	TEN YEARS
14.1801	MATERIALS ENGINEERING	*019.061-014	MATERIALS ENGINEER	5	5	5	FOUR	10	TEN YEARS
14.2001	METALLURGICAL ENGINEERING	*011.061-010	FOUNDRY METALLURGIST	5	5	5	FOUR	10	TEN YEARS
		*011.061-014	METALLOGRAPHER	5	5	5	FOUR	10	TEN YEARS
		*011.061-018	METALLURGIST, EXTRACTIVE	6	6	6	FOUR	10	TEN YEARS
		*011.061-022	METALLURGIST, PHYSICAL	6	6	6	FOUR	10	TEN YEARS
		*011.061-026	WELDING ENGINEER	5	5	5	FOUR	10	TEN YEARS
		*019.061-014	MATERIALS ENGINEER	5	5	5	FOUR	10	TEN YEARS
14.2101	MINING AND MINERAL ENGINEERING	*011.061-018	METALLURGIST, EXTRACTIVE	6	6	6	FOUR	10	TEN YEARS
		*011.061-022	METALLURGIST, PHYSICAL	6	6	6	FOUR	10	TEN YEARS
15.0603	INDUSTRIAL TECHNOLOGY	019.061-014	MATERIALS ENGINEER	5	5	5	FOUR	10	TEN YEARS
40.0701	METALLURGY	*011.061-010	FOUNDRY METALLURGIST	5	5	5	FOUR	10	TEN YEARS
		*011.061-014	METALLOGRAPHER	5	5	5	FOUR	10	TEN YEARS
		*011.061-018	METALLURGIST, EXTRACTIVE	6	6	6	FOUR	10	TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1623 METALLURGICAL AND MATERIALS ENGINEERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
		*011.061-022	METALLURGIST, PHYSICAL	6 6 6	FOUR TO TEN YEARS
		*011.061-026	WELDING ENGINEER	5 5 5	FOUR TO TEN YEARS
		*011.161-010	SUPERVISOR, METALLURGICAL-AND-QUAL I	5 5 5	FOUR TO TEN YEARS
41.0303	METALLURGICAL TECHNOLOGY	011.161-010	SUPERVISOR, METALLURGICAL-AND-QUAL I	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1624

MINING ENGINEERS

MINING ENGINEERS look for coal, ore, and other mineral deposits. They also conduct research, inspect mining areas, plan ways to mine deposits, direct work at mines and quarries, train miners, and write reports. Some spend much of their time at mine sites supervising mining operations. Others do research in offices or labs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GID-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	010.061-010	DESIGN ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
		010.061-014	MINING ENGINEER	5 5 5	FOUR TO TEN YEARS
		010.061-022	RESEARCH ENGINEER, MINING-AND-OIL-W	5 5 5	FOUR TO TEN YEARS
		010.061-026	SAFETY ENGINEER, MINES	5 5 5	FOUR TO TEN YEARS
		010.061-030	TEST ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
14.1501	GEOLOGICAL ENGINEERING	*010.061-010	DESIGN ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
		*010.061-014	MINING ENGINEER	5 5 5	FOUR TO TEN YEARS
		*010.061-022	RESEARCH ENGINEER, MINING-AND-OIL-W	5 5 5	FOUR TO TEN YEARS
		*010.061-026	SAFETY ENGINEER, MINES	5 5 5	FOUR TO TEN YEARS
		*010.061-030	TEST ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
14.2101	MINING AND MINERAL ENGINEERING	*010.061-010	DESIGN ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
		*010.061-014	MINING ENGINEER	5 5 5	FOUR TO TEN YEARS
		*010.061-022	RESEARCH ENGINEER, MINING-AND-OIL-W	5 5 5	FOUR TO TEN YEARS
		*010.061-026	SAFETY ENGINEER, MINES	5 5 5	FOUR TO TEN YEARS
		*010.061-030	TEST ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
14.2501	PETROLEUM ENGINEERING	*010.061-010	DESIGN ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS
		*010.061-022	RESEARCH ENGINEER, MINING-AND-OIL-W	5 5 5	FOUR TO TEN YEARS
		*010.061-030	TEST ENGINEER, MINING-AND-OILFIELD	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1625

PETROLEUM ENGINEERS

PETROLEUM ENGINEERS plan, organize, and supervise the way oil and natural gas are obtained, stored, and shipped. They also conduct research, give technical advice, and direct workers who drill and operate oil wells. Some spend much of their time at oil fields. Others work mostly in offices or labs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	010.061-018	PETROLEUM ENGINEER	5	5	5	FOUR TO TEN YEARS
		010.161-010	CHIEF ENGINEER, RESEARCH	6	6	6	FOUR TO TEN YEARS
		010.161-014	CHIEF PETROLEUM ENGINEER	6	6	6	OVER 10 YEARS
		010.167-010	CHIEF ENGINEER	6	6	6	OVER 10 YEARS
		010.167-014	DISTRICT SUPERVISOR, MUD-ANALYSIS W	5	5	5	FOUR TO TEN YEARS
14.1501	GEOLOGICAL ENGINEERING	*010.061-018	PETROLEUM ENGINEER	5	5	5	FOUR TO TEN YEARS
		*010.161-010	CHIEF ENGINEER, RESEARCH	6	6	6	FOUR TO TEN YEARS
		*010.161-014	CHIEF PETROLEUM ENGINEER	6	6	6	OVER 10 YEARS
14.2501	PETROLEUM ENGINEERING	*010.061-018	PETROLEUM ENGINEER	5	5	5	FOUR TO TEN YEARS
		*010.161-010	CHIEF ENGINEER, RESEARCH	6	6	6	FOUR TO TEN YEARS
		*010.161-014	CHIEF PETROLEUM ENGINEER	6	6	6	OVER 10 YEARS
		*010.167-010	CHIEF ENGINEER	6	6	6	OVER 10 YEARS
15.0903	PETROLEUM TECHNOLOGY	010.131-010	WELL-LOGGING CAPTAIN, MUD ANALYSIS	5	5	4	TWO TO FOUR YEARS
		010.161-018	OBSERVER, SEISMIC PROSPECTING	4	4	4	TWO TO FOUR YEARS
		010.167-018	SUPERINTENDENT, OIL-WELL SERVICES	5	5	5	FOUR TO TEN YEARS
41.0302	GEOLOGICAL TECHNOLOGY	010.161-018	OBSERVER, SEISMIC PROSPECTING	4	4	4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1626

CHEMICAL ENGINEERS

CHEMICAL ENGINEERS develop new ways to make chemicals and related products. They also help design, build, and operate plants that use or process chemicals. Because their duties cut across many fields, they must have a knowledge of chemistry, physics, and mechanical and electrical engineering. Some specialize in certain areas such as pollution control, or heat transfer, or in the production of certain types of products such as plastics or drugs. Some teach or do research.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	008.061-010	ABSORPTION-AND-ADSORPTION ENGINEER	6	6	6	FOUR TO TEN YEARS
		008.061-014	CHEMICAL DESIGN ENGINEER, PROCESSES	5	5	5	FOUR TO TEN YEARS
		008.061-018	CHEMICAL ENGINEER	6	6	6	FOUR TO TEN YEARS
		008.061-022	CHEMICAL RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS
		008.061-026	CHEMICAL-TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		008.061-030	NUCLEAR-DECONTAMINATION RESEARCH SP	6	6	6	FOUR TO TEN YEARS
		008.167-010	TECHNICAL DIRECTOR, CHEMICAL PLANT	6	6	5	FOUR TO TEN YEARS
14.0701	CHEMICAL ENGINEERING	*008.061-010	ABSORPTION-AND-ADSORPTION ENGINEER	6	6	6	FOUR TO TEN YEARS
		*008.061-014	CHEMICAL DESIGN ENGINEER, PROCESSES	5	5	5	FOUR TO TEN YEARS
		*008.061-018	CHEMICAL ENGINEER	6	6	6	FOUR TO TEN YEARS
		*008.061-022	CHEMICAL RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS
		*008.061-026	CHEMICAL-TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		*008.167-010	TECHNICAL DIRECTOR, CHEMICAL PLANT	6	6	5	FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*008.061-018	CHEMICAL ENGINEER	6	6	6	FOUR TO TEN YEARS
14.2301	NUCLEAR ENGINEERING	*008.061-030	NUCLEAR-DECONTAMINATION RESEARCH SP	6	6	6	FOUR TO TEN YEARS
40.0806	NUCLEAR PHYSICS	*008.061-030	NUCLEAR-DECONTAMINATION RESEARCH SP	6	6	6	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NITCC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1627

NUCLEAR ENGINEERS

NUCLEAR ENGINEERS study the development and uses of atomic power. They also design, develop, and test equipment that is used to release, control and utilize nuclear energy. Some are researchers, while others direct the operations of nuclear power plants. They must be knowledgeable of nuclear reactors, reactions, and radiation.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
00.0000 NO CIP ASSIGNED	015.061-010 DESIGN ENGINEER, NUCLEAR EQUIPMENT	5 5 5	FOUR TO TEN YEARS
	015.061-014 NUCLEAR ENGINEER	6 6 5	FOUR TO TEN YEARS
	015.061-018 RESEARCH ENGINEER, NUCLEAR EQUIPME	5 5 5	FOUR TO TEN YEARS
	015.061-022 TEST ENGINEER, NUCLEAR EQUIPMENT	5 5 5	FOUR TO TEN YEARS
	015.061-026 NUCLEAR-FUELS RECLAMATION ENGINEER	6 5 5	TWO TO FOUR YEARS
	015.061-030 NUCLEAR-FUELS RESEARCH ENGINEER	6 6 6	FOUR TO TEN YEARS
	015.067-010 NUCLEAR-CRITICALITY SAFETY ENGINEER	6 6 5	FOUR TO TEN YEARS
	015.137-010 RADIATION-PROTECTION ENGINEER	5 4 5	FOUR TO TEN YEARS
	015.167-010 NUCLEAR-PLANT TECHNICAL ADVISOR	6 5 5	FOUR TO TEN YEARS
	015.167-014 NUCLEAR-TEST-REACTOR PROGRAM COORDI	5 5 5	FOUR TO TEN YEARS
14.1401 ENVIRONMENTAL HEALTH ENGINEERING	*015.067-010 NUCLEAR-CRITICALITY SAFETY ENGINEER	6 6 5	FOUR TO TEN YEARS
	*015.137-010 RADIATION-PROTECTION ENGINEER	5 4 5	FOUR TO TEN YEARS
14.2301 NUCLEAR ENGINEERING	*015.061-010 DESIGN ENGINEER, NUCLEAR EQUIPMENT	5 5 5	FOUR TO TEN YEARS
	*015.061-014 NUCLEAR ENGINEER	6 6 5	FOUR TO TEN YEARS
	*015.061-018 RESEARCH ENGINEER, NUCLEAR EQUIPME	5 5 5	FOUR TO TEN YEARS
	*015.061-022 TEST ENGINEER, NUCLEAR EQUIPMENT	5 5 5	FOUR TO TEN YEARS
	*015.061-026 NUCLEAR-FUELS RECLAMATION ENGINEER	6 5 5	TWO TO FOUR YEARS
	*015.061-030 NUCLEAR-FUELS RESEARCH ENGINEER	6 6 6	FOUR TO TEN YEARS
	*015.067-010 NUCLEAR-CRITICALITY SAFETY ENGINEER	6 6 5	FOUR TO TEN YEARS
	*015.137-010 RADIATION-PROTECTION ENGINEER	5 4 5	FOUR TO TEN YEARS
	*015.167-010 NUCLEAR-PLANT TECHNICAL ADVISOR	6 5 5	FOUR TO TEN YEARS
	*015.167-014 NUCLEAR-TEST-REACTOR PROGRAM COORDI	5 5 5	FOUR TO TEN YEARS
40.0806 NUCLEAR PHYSICS	*015.061-014 NUCLEAR ENGINEER	6 6 5	FOUR TO TEN YEARS
	*015.061-018 RESEARCH ENGINEER, NUCLEAR EQUIPME	5 5 5	FOUR TO TEN YEARS
	*015.061-022 TEST ENGINEER, NUCLEAR EQUIPMENT	5 5 5	FOUR TO TEN YEARS
	*015.061-030 NUCLEAR-FUELS RESEARCH ENGINEER	6 6 6	FOUR TO TEN YEARS
	*015.167-014 NUCLEAR-TEST-REACTOR PROGRAM COORDI	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1628

CIVIL ENGINEERS

CIVIL ENGINEERS plan, design, and supervise the construction of structures such as buildings, roads, water and sewage systems, bridges, and dams. They also may do such things as conduct research, advise on engineering problems, prepare technical reports and materials, and teach.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	005.061-010	AIRPORT ENGINEER	5 5 5	FOUR TO TEN YEARS
		005.061-014	CIVIL ENGINEER	5 5 5	FOUR TO TEN YEARS
		005.061-018	HYDRAULIC ENGINEER	5 5 5	TWO TO FOUR YEARS
		005.061-022	IRRIGATION ENGINEER	5 5 4	FOUR TO TEN YEARS
		005.061-026	RAILROAD ENGINEER	5 5 5	FOUR TO TEN YEARS
		005.061-030	SANITARY ENGINEER	5 5 5	FOUR TO TEN YEARS
		005.061-034	STRUCTURAL ENGINEER	5 5 5	FOUR TO TEN YEARS
		005.061-038	TRANSPORTATION ENGINEER	5 5 5	FOUR TO TEN YEARS
		005.061-042	WASTE-MANAGEMENT ENGINEER, RADIOACT	5 5 5	FOUR TO TEN YEARS
		005.167-010	CHIEF ENGINEER, WATERWORKS	5 5 5	OVER 10 YEARS
		005.167-018	FOREST ENGINEER	5 5 5	TWO TO FOUR YEARS
		019.167-018	RESOURCE-RECOVERY ENGINEER	6 6 5	FOUR TO TEN YEARS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	005.167-014	DRAINAGE-DESIGN COORDINATOR	5 5 4	FOUR TO TEN YEARS
03.0202	CONSERVATION	005.167-014	DRAINAGE-DESIGN COORDINATOR	5 5 4	FOUR TO TEN YEARS
03.0504	FOREST ENGINEERING	*005.167-018	FOREST ENGINEER	5 5 5	TWO TO FOUR YEARS
03.0506	FOREST MANAGEMENT	*005.167-018	FOREST ENGINEER	5 5 5	TWO TO FOUR YEARS
14.0401	ARCHITECTURAL ENGINEERING	*005.061-010	AIRPORT ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-014	CIVIL ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-038	TRANSPORTATION ENGINEER	5 5 5	FOUR TO TEN YEARS
14.0801	CIVIL ENGINEERING	*005.061-010	AIRPORT ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-014	CIVIL ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-018	HYDRAULIC ENGINEER	5 5 5	TWO TO FOUR YEARS
		*005.061-022	IRRIGATION ENGINEER	5 5 4	FOUR TO TEN YEARS
		*005.061-026	RAILROAD ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-030	SANITARY ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-034	STRUCTURAL ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-038	TRANSPORTATION ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-042	WASTE-MANAGEMENT ENGINEER, RADIOACT	5 5 5	FOUR TO TEN YEARS
		*005.167-010	CHIEF ENGINEER, WATERWORKS	5 5 5	OVER 10 YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1628 CIVIL ENGINEERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*005.167-014	DRAINAGE-DESIGN COORDINATOR	5 5 4	FOUR TO TEN YEARS
		*005.167-018	FOREST ENGINEER	5 5 5	TWO TO FOUR YEARS
		*019.167-018	RESOURCE-RECOVERY ENGINEER	6 6 5	FOUR TO TEN YEARS
14.1401	ENVIRONMENTAL HEALTH ENGINEERING	*005.061-030	SANITARY ENGINEER	5 5 5	FOUR TO TEN YEARS
		*005.061-042	WASTE-MANAGEMENT ENGINEER, RADIOACT	5 5 5	FOUR TO TEN YEARS
14.2501	PETROLEUM ENGINEERING	*005.061-014	CIVIL ENGINEER	5 5 5	FOUR TO TEN YEARS
44.0601	PUBLIC SANITATION	*005.061-030	SANITARY ENGINEER	5 5 5	FOUR TO TEN YEARS
44.0602	PUBLIC TRANSPORTATION	*005.061-038	TRANSPORTATION ENGINEER	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1632

AGRICULTURAL ENGINEERS

AGRICULTURAL ENGINEERS work to solve farming problems and find ways to make farms run better and produce more. They design farm machines, structures, and equipment that will improve the production, processing, and delivery of farm products. Some plan and supervise the production of such items. Others help to conserve and manage energy, soil, and water resources.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	013.061-010	AGRICULTURAL ENGINEER	5	5	5 FOUR TO TEN YEARS
		013.061-014	AGRICULTURAL-RESEARCH ENGINEER	5	5	5 FOUR TO TEN YEARS
		013.061-018	DESIGN-ENGINEER, AGRICULTURAL EQUIP	5	5	5 FOUR TO TEN YEARS
		013.061-022	TEST ENGINEER, AGRICULTURAL EQUIPME	5	5	5 FOUR TO TEN YEARS
14.0301	AGRICULTURAL ENGINEERING	*013.061-010	AGRICULTURAL ENGINEER	5	5	5 FOUR TO TEN YEARS
		*013.061-014	AGRICULTURAL-RESEARCH ENGINEER	5	5	5 FOUR TO TEN YEARS
		*013.061-018	DESIGN-ENGINEER, AGRICULTURAL EQUIP	5	5	5 FOUR TO TEN YEARS
		*013.061-022	TEST ENGINEER, AGRICULTURAL EQUIPME	5	5	5 FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*013.061-010	AGRICULTURAL ENGINEER	5	5	5 FOUR TO TEN YEARS
30.0101	BIOLOGICAL AND PHYSICAL SCIENCES	*013.061-010	AGRICULTURAL ENGINEER	5	5	5 FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1633

ELECTRICAL AND ELECTRONIC ENGINEERS

ELECTRICAL ENGINEERS design, develop, test, and supervise the manufacture of electrical and electronic parts. Those who work with electronic equipment are called ELECTRONIC ENGINEERS. Electrical equipment includes power generators and transmitters used in power plants and electric motors, lighting and wiring in buildings, cars, and planes. Electronic equipment includes radar, computers, TV's and stereo sets. ELECTRICAL ENGINEERS design and operate power plants. Some teach and do research.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M L	
00.0000 NO CIP ASSIGNED	003.061-010 ELECTRICAL ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-014 ELECTRICAL TEST ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-018 ELECTRICAL-DESIGN ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-022 ELECTRICAL-PROSPECTING ENGINEER	6 6 6	FOUR TO TEN YEARS
	003.061-026 ELECTRICAL-RESEARCH ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-030 ELECTRONICS ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-034 ELECTRONICS-DESIGN ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-038 ELECTRONICS-RESEARCH ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-042 ELECTRONICS-TEST ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-046 ILLUMINATING ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.061-050 PLANNING ENGINEER, CENTRAL OFFICE F	6 6 6	FOUR TO TEN YEARS
	003.167-010 CABLE ENGINEER, OUTSIDE PLANT	5 5 5	FOUR TO TEN YEARS
	003.167-014 DISTRIBUTION-FIELD ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.167-018 ELECTRICAL ENGINEER, POWER SYSTEM	6 6 6	FOUR TO TEN YEARS
	003.167-022 ELECTROLYSIS-AND-CORROSION-CONTROL	5 5 5	FOUR TO TEN YEARS
	003.167-026 ENGINEER OF SYSTEM DEVELOPMENT	5 5 5	FOUR TO TEN YEARS
	003.167-030 ENGINEER-IN-CHARGE, STUDIO OPERATIO	5 5 5	FOUR TO TEN YEARS
	003.167-034 ENGINEER-IN-CHARGE, TRANSMITTER	5 5 5	FOUR TO TEN YEARS
	003.167-038 INDUCTION-COORDINATION POWER ENGINE	5 5 5	FOUR TO TEN YEARS
	003.167-042 OUTSIDE-PLANT ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.167-046 POWER-DISTRIBUTION ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.167-050 POWER-TRANSMISSION ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.167-054 PROTECTION ENGINEER	5 5 5	FOUR TO TEN YEARS
	003.167-058 SUPERVISOR, MICROWAVE	5 5 5	FOUR TO TEN YEARS
	003.167-066 TRANSMISSION-AND-PROTECTION ENGINEE	5 5 5	FOUR TO TEN YEARS
	003.187-010 CENTRAL-OFFICE EQUIPMENT ENGINEER	6 6 6	FOUR TO TEN YEARS
	003.187-014 COMMERCIAL ENGINEER	5 5 5	TWO TO FOUR YEARS
	003.187-018 CUSTOMER-EQUIPMENT ENGINEER	5 5 5	FOUR TO TEN YEARS
06.2101 COMPUTER INSTALLATION MANAGEMENT	*003.061-030 ELECTRONICS ENGINEER	5 5 5	FOUR TO TEN YEARS
09.0801 TELECOMMUNICATIONS	*003.061-050 PLANNING ENGINEER, CENTRAL OFFICE F	6 6 6	FOUR TO TEN YEARS
	*003.167-030 ENGINEER-IN-CHARGE, STUDIO OPERATIO	5 5 5	FOUR TO TEN YEARS
	*003.167-034 ENGINEER-IN-CHARGE, TRANSMITTER	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1633 ELECTRICAL AND ELECTRONIC ENGINEERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		*003.187-010	CENTRAL-OFFICE EQUIPMENT ENGINEER	6	6	6	FOUR TO TEN YEARS
		*003.187-014	COMMERCIAL ENGINEER	5	5	5	TWO TO FOUR YEARS
		*003.187-018	CUSTOMER-EQUIPMENT ENGINEER	5	5	5	FOUR TO TEN YEARS
14.0901	COMPUTER ENGINEERING	*003.061-030	ELECTRONICS ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-034	ELECTRONICS-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-038	ELECTRONICS-RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-042	ELECTRONICS-TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
14.1001	ELECTRICAL, ELECTRONICS, AND COMMUNICATI	*003.061-010	ELECTRICAL ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-014	ELECTRICAL TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-018	ELECTRICAL-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-022	ELECTRICAL-PROSPECTING ENGINEER	6	6	6	FOUR TO TEN YEARS
		*003.061-026	ELECTRICAL-RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-030	ELECTRONICS ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-034	ELECTRONICS-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-038	ELECTRONICS-RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-042	ELECTRONICS-TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-046	ILLUMINATING ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-050	PLANNING ENGINEER, CENTRAL OFFICE	6	6	6	FOUR TO TEN YEARS
		*003.167-010	CABLE ENGINEER, OUTSIDE PLANT	5	5	5	FOUR TO TEN YEARS
		*003.167-014	DISTRIBUTION-FIELD ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.167-018	ELECTRICAL ENGINEER, POWER SYSTEM	6	6	6	FOUR TO TEN YEARS
		*003.167-022	ELECTROLYSIS-AND-CORROSION-CONTROL	5	5	5	FOUR TO TEN YEARS
		*003.167-026	ENGINEER OF SYSTEM DEVELOPMENT	5	5	5	FOUR TO TEN YEARS
		*003.167-038	INDUCTION-COORDINATION POWER ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.167-042	OUTSIDE-PLANT ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.167-046	POWER-DISTRIBUTION ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.167-050	POWER-TRANSMISSION ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.167-054	PROTECTION ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.167-058	SUPERVISOR, MICROWAVE	5	5	5	FOUR TO TEN YEARS
		*003.167-066	TRANSMISSION-AND-PROTECTION ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.187-014	COMMERCIAL ENGINEER	5	5	5	TWO TO FOUR YEARS
14.1002	MICROELECTRONIC ENGINEERING	*003.061-010	ELECTRICAL ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-014	ELECTRICAL TEST ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-018	ELECTRICAL-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-022	ELECTRICAL-PROSPECTING ENGINEER	6	6	6	FOUR TO TEN YEARS
		*003.061-026	ELECTRICAL-RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-030	ELECTRONICS ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-034	ELECTRONICS-DESIGN ENGINEER	5	5	5	FOUR TO TEN YEARS
		*003.061-038	ELECTRONICS-RESEARCH ENGINEER	5	5	5	FOUR TO TEN YEARS

HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1633 ELECTRICAL AND ELECTRONIC ENGINEERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		*003.061-042	ELECTRONICS-TEST ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-046	ILLUMINATING ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-050	PLANNING ENGINEER, CENTRAL OFFICE F	6	6 6	FOUR TO TEN YEARS
		*003.167-010	CABLE ENGINEER, OUTSIDE PLANT	5	5 5	FOUR TO TEN YEARS
		*003.167-014	DISTRIBUTION-FIELD ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.167-018	ELECTRICAL ENGINEER, POWER SYSTEM	6	6 6	FOUR TO TEN YEARS
		*003.167-022	ELECTROLYSIS-AND-CORROSION-CONTROL	5	5 5	FOUR TO TEN YEARS
		*003.167-026	ENGINEER OF SYSTEM DEVELOPMENT	5	5 5	FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*003.061-010	ELECTRICAL ENGINEER	5	5 5	FOUR TO TEN YEARS
14.2701	SYSTEMS ENGINEERING	*003.061-030	ELECTRONICS ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-034	ELECTRONICS-DESIGN ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-038	ELECTRONICS-RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-042	ELECTRONICS-TEST ENGINEER	5	5 5	FOUR TO TEN YEARS
40.0808	SOLID STATE PHYSICS	*003.061-030	ELECTRONICS ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-034	ELECTRONICS-DESIGN ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-038	ELECTRONICS-RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.061-042	ELECTRONICS-TEST ENGINEER	5	5 5	FOUR TO TEN YEARS
44.0603	PUBLIC UTILITIES	*003.061-046	ILLUMINATING ENGINEER	5	5 5	FOUR TO TEN YEARS
		*003.167-018	ELECTRICAL ENGINEER, POWER SYSTEM	6	6 6	FOUR TO TEN YEARS
		*003.167-026	ENGINEER OF SYSTEM DEVELOPMENT	5	5 5	FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1634

INDUSTRIAL ENGINEERS

INDUSTRIAL ENGINEERS study and design ways to make the best use of people, machines, and materials in business and industry. They advise on and set up methods to promote efficient, safe, and cost-effective use of people and machines. They plan equipment layout, workflow, and means to prevent accidents. They also plan and oversee training programs and develop ways to control product quality and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	012.061-010	PRODUCT-SAFETY ENGINEER	6 6 6	FOUR TO TEN YEARS
		012.061-014	SAFETY ENGINEER	6 6 6	FOUR TO TEN YEARS
		012.061-018	STANDARDS ENGINEER	5 5 5	FOUR TO TEN YEARS
		012.067-010	METROLOGIST	6 6 6	FOUR TO TEN YEARS
		012.167-010	CONFIGURATION MANAGEMENT ANALYST	5 4 5	FOUR TO TEN YEARS
		012.167-014	DIRECTOR, QUALITY CONTROL	6 6 6	FOUR TO TEN YEARS
		012.167-018	FACTORY LAY-OUT ENGINEER	5 5 5	FOUR TO TEN YEARS
		012.167-022	FIRE-PREVENTION RESEARCH ENGINEER	5 5 5	TWO TO FOUR YEARS
		012.167-026	FIRE-PROTECTION ENGINEER	5 5 5	TWO TO FOUR YEARS
		012.167-030	INDUSTRIAL ENGINEER	5 5 5	TWO TO FOUR YEARS
		012.167-034	INDUSTRIAL-HEALTH ENGINEER	5 5 5	TWO TO FOUR YEARS
		012.167-038	LIAISON WORKER, TOOL FABRICATION	5 5 4	TWO TO FOUR YEARS
		012.167-042	MANUFACTURING ENGINEER	5 5 5	FOUR TO TEN YEARS
		012.167-046	PRODUCTION ENGINEER	5 5 5	TWO TO FOUR YEARS
		012.167-050	PRODUCTION PLANNER	5 5 5	TWO TO FOUR YEARS
		012.167-054	QUALITY-CONTROL ENGINEER	6 6 6	FOUR TO TEN YEARS
		012.167-070	TIME-STUDY ENGINEER	5 5 5	FOUR TO TEN YEARS
		012.167-074	TOOL PLANNER	5 5 5	FOUR TO TEN YEARS
		012.187-010	MATERIAL SCHEDULER	5 5 5	TWO TO FOUR YEARS
		012.187-014	SHOE-LAY-OUT PLANNER	5 5 4	FOUR TO TEN YEARS
06.0403	PRODUCT MANAGEMENT	*012.061-018	STANDARDS ENGINEER	5 5 5	FOUR TO TEN YEARS
		*012.167-010	CONFIGURATION MANAGEMENT ANALYST	5 4 5	FOUR TO TEN YEARS
		*012.167-014	DIRECTOR, QUALITY CONTROL	6 6 6	FOUR TO TEN YEARS
		*012.167-018	FACTORY LAY-OUT ENGINEER	5 5 5	FOUR TO TEN YEARS
		*012.167-030	INDUSTRIAL ENGINEER	5 5 5	TWO TO FOUR YEARS
		*012.167-042	MANUFACTURING ENGINEER	5 5 5	FOUR TO TEN YEARS
		*012.167-046	PRODUCTION ENGINEER	5 5 5	TWO TO FOUR YEARS
		*012.167-050	PRODUCTION PLANNER	5 5 5	TWO TO FOUR YEARS
		*012.167-054	QUALITY-CONTROL ENGINEER	6 6 6	FOUR TO TEN YEARS
		*012.167-074	TOOL PLANNER	5 5 5	FOUR TO TEN YEARS
14.0201	AEROSPACE, AERONAUTICAL, AND ASTRONAUTIC	*012.167-054	QUALITY-CONTROL ENGINEER	6 6 6	FOUR TO TEN YEARS
14.0501	BIOENGINEERING AND BIOMEDICAL ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6 6 6	FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
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OCCUPATION: 1634 INDUSTRIAL ENGINEERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
14.0601	CERAMIC ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.0701	CHEMICAL ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.0901	COMPUTER ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.1001	ELECTRICAL, ELECTRONICS, AND COMMUNICATI	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.1002	MICROELECTRONIC ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.1401	ENVIRONMENTAL HEALTH ENGINEERING	*012.061-010	PRODUCT-SAFETY ENGINEER	6	6 6	FOUR TO TEN YEARS
		*012.061-014	SAFETY ENGINEER	6	6 6	FOUR TO TEN YEARS
		*012.167-034	INDUSTRIAL-HEALTH ENGINEER	5	5 5	TWO TO FOUR YEARS
		*012.167-058	SAFETY MANAGER	6	6 6	FOUR TO TEN YEARS
14.1701	INDUSTRIAL ENGINEERING	*012.061-018	STANDARDS ENGINEER	5	5 5	FOUR TO TEN YEARS
		*012.067-010	METROLOGIST	6	6 6	FOUR TO TEN YEARS
		*012.167-010	CONFIGURATION MANAGEMENT ANALYST	5	4 5	FOUR TO TEN YEARS
		*012.167-014	DIRECTOR, QUALITY CONTROL	6	6 6	FOUR TO TEN YEARS
		*012.167-018	FACTORY LAY-OUT ENGINEER	5	5 5	FOUR TO TEN YEARS
		*012.167-030	INDUSTRIAL ENGINEER	5	5 5	TWO TO FOUR YEARS
		*012.167-038	LIAISON WORKER, TOOL FABRICATION	5	5 4	TWO TO FOUR YEARS
		*012.167-042	MANUFACTURING ENGINEER	5	5 5	FOUR TO TEN YEARS
		*012.167-046	PRODUCTION ENGINEER	5	5 5	TWO TO FOUR YEARS
		*012.167-050	PRODUCTION PLANNER	5	5 5	TWO TO FOUR YEARS
		*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
		*012.167-062	SUPERVISOR, VENDOR QUALITY	5	5 5	TWO TO FOUR YEARS
		*012.167-070	TIME-STUDY ENGINEER	5	5 5	FOUR TO TEN YEARS
		*012.167-074	TOOL PLANNER	5	5 5	FOUR TO TEN YEARS
*012.187-014	SHOE-LAY-OUT PLANNER	5	5 4	FOUR TO TEN YEARS		
14.1801	MATERIALS ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.1901	MECHANICAL ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.2001	METALLURGICAL ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.2301	NUCLEAR ENGINEERING	*012.167-054	QUALITY-CONTROL ENGINEER	6	6 6	FOUR TO TEN YEARS
14.2801	TEXTILE ENGINEERING	*012.061-018	STANDARDS ENGINEER	5	5 5	FOUR TO TEN YEARS
		*012.067-010	METROLOGIST	6	6 6	FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1634 INDUSTRIAL ENGINEERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
		*012.167-010	CONFIGURATION MANAGEMENT ANALYST	5	4	5 FOUR TO TEN YEARS
		*012.167-014	DIRECTOR, QUALITY CONTROL	6	6	6 FOUR TO TEN YEARS
		*012.167-018	FACTORY LAY-OUT ENGINEER	5	5	5 FOUR TO TEN YEARS
		*012.167-030	INDUSTRIAL ENGINEER	5	5	5 TWO TO FOUR YEARS
		*012.167-042	MANUFACTURING ENGINEER	5	5	5 FOUR TO TEN YEARS
		*012.167-046	PRODUCTION ENGINEER	5	5	5 TWO TO FOUR YEARS
		*012.167-050	PRODUCTION PLANNER	5	5	5 TWO TO FOUR YEARS
		*012.167-054	QUALITY-CONTROL ENGINEER	6	6	6 FOUR TO TEN YEARS
		*012.167-070	TIME-STUDY ENGINEER	5	5	5 FOUR TO TEN YEARS
		*012.187-014	SHOE-LAY-OUT PLANNER	5	5	4 FOUR TO TEN YEARS
15.0603	INDUSTRIAL TECHNOLOGY	012.167-038	LIAISON WORKER, TOOL FABRICATION	5	5	4 TWO TO FOUR YEARS
		012.167-074	TOOL PLANNER	5	5	5 FOUR TO TEN YEARS
		012.187-010	MATERIAL SCHEDULER	5	5	5 TWO TO FOUR YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	012.167-062	SUPERVISOR, VENDOR QUALITY	5	5	5 TWO TO FOUR YEARS
43.0201	FIRE CONTROL AND SAFETY TECHNOLOGY	*012.167-022	FIRE-PREVENTION RESEARCH ENGINEER	5	5	5 TWO TO FOUR YEARS
		*012.167-026	FIRE-PROTECTION ENGINEER	5	5	5 TWO TO FOUR YEARS
		012.167-058	SAFETY MANAGER	6	6	6 FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1635

MECHANICAL ENGINEERS

MECHANICAL ENGINEERS design and develop tools, engines, machines, and other equipment. They also direct the installation, use, up-keep, and repair of equipment used in heat, gas, water, and steam systems. Many specialize in a certain product area, such as motor vehicles, marine equipment, heating and cooling units, or plastics. Some conduct research, do sales work, or teach.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	007.061-010	AUTOMOTIVE ENGINEER	5	5 5	FOUR TO TEN YEARS
		007.061-014	MECHANICAL ENGINEER	5	5 5	FOUR TO TEN YEARS
		007.061-018	MECHANICAL-DESIGN ENGINEER, FACILIT	5	5 5	FOUR TO TEN YEARS
		007.061-022	MECHANICAL-DESIGN ENGINEER, PRODUCT	5	5 5	FOUR TO TEN YEARS
		007.061-034	UTILIZATION ENGINEER	5	5 5	FOUR TO TEN YEARS
		007.161-022	MECHANICAL RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
		007.161-034	TEST ENGINEER, MECHANICAL EQUIPMENT	5	5 5	FOUR TO TEN YEARS
		007.167-014	PLANT ENGINEER	5	5 5	FOUR TO TEN YEARS
		007.167-022	TOOL-DRAWING CHECKER	5	5 4	TWO TO FOUR YEARS
14.1101	ENGINEERING MECHANICS	*007.061-014	MECHANICAL ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.161-022	MECHANICAL RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
14.1201	ENGINEERING PHYSICS	*007.061-014	MECHANICAL ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.161-022	MECHANICAL RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*007.061-014	MECHANICAL ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.161-022	MECHANICAL RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
14.1901	MECHANICAL ENGINEERING	*007.061-010	AUTOMOTIVE ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.061-014	MECHANICAL ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.061-018	MECHANICAL-DESIGN ENGINEER, FACILIT	5	5 5	FOUR TO TEN YEARS
		*007.061-022	MECHANICAL-DESIGN ENGINEER, PRODUCT	5	5 5	FOUR TO TEN YEARS
		*007.061-026	TOOL DESIGNER	5	5 5	FOUR TO TEN YEARS
		*007.061-030	TOOL-DESIGNER APPRENTICE	5	5 5	FOUR TO TEN YEARS
		*007.061-034	UTILIZATION ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.161-022	MECHANICAL RESEARCH ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.161-034	TEST ENGINEER, MECHANICAL EQUIPMENT	5	5 5	FOUR TO TEN YEARS
		*007.161-038	SOLAR-ENERGY-SYSTEMS DESIGNER	5	4 4	SIX TO 12 MONTHS
		*007.167-014	PLANT ENGINEER	5	5 5	FOUR TO TEN YEARS
		*007.267-010	DRAWINGS CHECKER, ENGINEERING	4	4 4	ONE TO TWO YEARS
14.2501	PETROLEUM ENGINEERING	*007.061-034	UTILIZATION ENGINEER	5	5 5	FOUR TO TEN YEARS
15.0202	DRAFTING AND DESIGN TECHNOLOGY	007.167-010	DIE-DRAWING CHECKER	5	5 4	TWO TO FOUR YEARS

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OCCUPATION: 1635 MECHANICAL ENGINEERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		007.267-010	DRAWINGS CHECKER, ENGINEERING	4 4 4	ONE TO TWO YEARS
15.0505	SOLAR HEATING AND COOLING TECHNOLOGY	007.161-038	SOLAR-ENERGY-SYSTEMS DESIGNER	5 4 4	SIX TO 12 MONTHS
15.0805	MECHANICAL DESIGN TECHNOLOGY	007.061-026	TOOL DESIGNER	5 5 5	FOUR TO TEN YEARS
		007.061-030	TOOL-DESIGNER APPRENTICE	5 5 5	FOUR TO TEN YEARS
48.0105	MECHANICAL DRAFTING	007.167-010	DIE-DRAWING CHECKER	5 5 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1636

COMPUTER ENGINEERS

COMPUTER ENGINEERS plan, design, and help build computers and related equipment. They also help companies decide what computer equipment they need.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	003.167-062	SYSTEMS ENGINEER, ELECTRONIC DATA P	6 5 5	FOUR TO TEN YEARS
		020.062-010	COMPUTER-APPLICATIONS ENGINEER	6 6 6	FOUR TO TEN YEARS
		020.067-010	ENGINEERING ANALYST	6 6 5	TWO TO FOUR YEARS
06.1302	OPERATIONS RESEARCH (QUANTITATIVE METHOD	*020.062-010	COMPUTER-APPLICATIONS ENGINEER	6 6 6	FOUR TO TEN YEARS
		*020.067-010	ENGINEERING ANALYST	6 6 5	TWO TO FOUR YEARS
06.2101	COMPUTER INSTALLATION MANAGEMENT	*003.167-062	SYSTEMS ENGINEER, ELECTRONIC DATA P	6 5 5	FOUR TO TEN YEARS
11.0601	MICROCOMPUTER APPLICATIONS	003.167-062	SYSTEMS ENGINEER, ELECTRONIC DATA P	6 5 5	FOUR TO TEN YEARS
		*020.062-010	COMPUTER-APPLICATIONS ENGINEER	6 6 6	FOUR TO TEN YEARS
14.0901	COMPUTER ENGINEERING	*003.167-062	SYSTEMS ENGINEER, ELECTRONIC DATA P	6 5 5	FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*020.067-010	ENGINEERING ANALYST	6 6 5	TWO TO FOUR YEARS
14.2701	SYSTEMS ENGINEERING	*003.167-062	SYSTEMS ENGINEER, ELECTRONIC DATA P	6 5 5	FOUR TO TEN YEARS
27.0301	APPLIED MATHEMATICS	*020.067-010	ENGINEERING ANALYST	6 6 5	TWO TO FOUR YEARS

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OCCUPATION: 1637

MARINE ENGINEERS AND NAVAL ARCHITECTS

These workers plan, design, test, and oversee the construction and repair of marine craft, structures, and port facilities. They also design the machinery and equipment used aboard vessels. They study drawings and design specifications to plan the layout and design of ship systems. Some specialize in the inspection and repair of marine craft or equipment. Some check vessels to see if they meet insurance requirements.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	001.061-014	ARCHITECT, MARINE	6	6	6	OVER 10 YEARS
		014.061-010	DESIGN ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		014.061-014	MARINE ENGINEER	6	5	5	FOUR TO TEN YEARS
		014.061-018	RESEARCH ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		014.061-022	TEST ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		014.167-010	MARINE SURVEYOR	5	4	4	FOUR TO TEN YEARS
		014.167-014	PORT ENGINEER	5	4	3	FOUR TO TEN YEARS
14.2201	NAVAL ARCHITECTURE AND MARINE ENGINEERIN	*001.061-014	ARCHITECT, MARINE	6	6	6	OVER 10 YEARS
		*014.061-010	DESIGN ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		*014.061-014	MARINE ENGINEER	6	5	5	FOUR TO TEN YEARS
		*014.061-018	RESEARCH ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		*014.061-022	TEST ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		*014.167-010	MARINE SURVEYOR	5	4	4	FOUR TO TEN YEARS
		*014.167-014	PORT ENGINEER	5	4	3	FOUR TO TEN YEARS
14.2401	OCEAN ENGINEERING	*001.061-014	ARCHITECT, MARINE	6	6	6	OVER 10 YEARS
		*014.061-010	DESIGN ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		*014.061-014	MARINE ENGINEER	6	5	5	FOUR TO TEN YEARS
		*014.061-018	RESEARCH ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		*014.061-022	TEST ENGINEER, MARINE EQUIPMENT	5	5	5	FOUR TO TEN YEARS
		*014.167-010	MARINE SURVEYOR	5	4	4	FOUR TO TEN YEARS
		*014.167-014	PORT ENGINEER	5	4	3	FOUR TO TEN YEARS

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OCCUPATION: 1639

ENGINEERS, N.E.C.

These ENGINEERS do research to develop and test new theories and facts, and design new types of products. They may specialize in medicine, optics, explosives, photography, or another field. Some design artificial (fake) body organs or develop new optical systems. Some develop and test explosives. Some prepare instructions for the installation of equipment. They use math and complex instruments and equipment to design, build, and test products. They also prepare charts, graphs, diagrams, and technical reports. Some teach and/or do consulting.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	019.061-010	BIOMEDICAL ENGINEER	6 6 5	FOUR TO TEN YEARS
		019.061-018	OPTICAL ENGINEER	6 5 5	FOUR TO TEN YEARS
		019.061-022	ORDNANCE ENGINEER	6 6 5	FOUR TO TEN YEARS
		019.031-010	MAINTAINABILITY ENGINEER	5 4 5	FOUR TO TEN YEARS
		019.081-014	PHOTOGRAPHIC ENGINEER	5 4 4	FOUR TO TEN YEARS
		019.081-018	POLLUTION-CONTROL ENGINEER	6 6 6	FOUR TO TEN YEARS
		019.081-022	RELIABILITY ENGINEER	6 5 5	FOUR TO TEN YEARS
		019.167-010	LOGISTICS ENGINEER	5 5 5	FOUR TO TEN YEARS
		019.167-014	PROJECT ENGINEER	5 5 5	FOUR TO TEN YEARS
		019.187-010	PACKAGING ENGINEER	5 4 5	TWO TO FOUR YEARS
14.0501	BIOENGINEERING AND BIOMEDICAL ENGINEERING	*019.061-010	BIOMEDICAL ENGINEER	6 6 5	FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*019.061-010	BIOMEDICAL ENGINEER	6 6 5	FOUR TO TEN YEARS
14.1401	ENVIRONMENTAL HEALTH ENGINEERING	*019.081-018	POLLUTION-CONTROL ENGINEER	6 6 6	FOUR TO TEN YEARS
14.1701	INDUSTRIAL ENGINEERING	*019.081-010	MAINTAINABILITY ENGINEER	5 4 5	FOUR TO TEN YEARS
		*019.081-022	RELIABILITY ENGINEER	6 5 5	FOUR TO TEN YEARS
14.1801	MATERIALS ENGINEERING	*019.081-014	PHOTOGRAPHIC ENGINEER	5 4 4	FOUR TO TEN YEARS
		*019.187-010	PACKAGING ENGINEER	5 4 5	TWO TO FOUR YEARS
15.0302	ELECTRICAL TECHNOLOGY	019.161-010	SUPERVISOR, ESTIMATOR AND DRAFTER	5 5 5	FOUR TO TEN YEARS
15.0603	INDUSTRIAL TECHNOLOGY	019.167-010	LOGISTICS ENGINEER	5 5 5	FOUR TO TEN YEARS
30.0101	BIOLOGICAL AND PHYSICAL SCIENCES	*019.061-010	BIOMEDICAL ENGINEER	6 6 5	FOUR TO TEN YEARS
40.0807	OPTICS	*019.061-018	OPTICAL ENGINEER	6 5 5	FOUR TO TEN YEARS
		*019.081-014	PHOTOGRAPHIC ENGINEER	5 4 4	FOUR TO TEN YEARS

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OCCUPATION: 1640

SURVEYORS AND MAPPING SCIENTISTS

These workers measure land, note landmarks and elevations, and determine boundaries. They record their findings on maps and legal descriptions. Their findings are used by architects and engineers who design structures for a site. Surveyors and mapping scientists also compile information for underground and underwater structures. They survey and map waterways, harbors, and oceans, as well as locate and map land formations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 1643

LAND SURVEYORS

LAND SURVEYORS establish official land boundaries and help determine the value of plots of land. They research deeds, write legal descriptions of land, measure plots of land, and collect information for maps and charts. Some head survey parties. They are responsible for a party's activities and the accuracy of its work. They plan the fieldwork, select survey reference points, determine the exact location of land features, prepare survey reports, select survey staff, prepare budgets and buy survey equipment and supplies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
14.2601	SURVEYING AND MAPPING SCIENCES	*018.167-018	LAND SURVEYOR	5 5 4	TWO TO FOUR YEARS
		*018.167-022	MANAGER, LAND SURVEYING	5 5 4	FOUR TO TEN YEARS
15.0201	CIVIL TECHNOLOGY	018.167-018	LAND SURVEYOR	5 5 4	TWO TO FOUR YEARS
		018.167-022	MANAGER, LAND SURVEYING	5 5 4	FOUR TO TEN YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	018.167-018	LAND SURVEYOR	5 5 4	TWO TO FOUR YEARS
		018.167-022	MANAGER, LAND SURVEYING	5 5 4	FOUR TO TEN YEARS
15.1001	CONSTRUCTION TECHNOLOGY	*018.167-018	LAND SURVEYOR	5 5 4	TWO TO FOUR YEARS

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OCCUPATION: 1644

CARTOGRAPHERS

CARTOGRAPHERS plan surveys and gather and interpret information used to design and make maps. They study photographs and other information from surveys to compute the measurements of land areas. They may direct one or more phases of survey operations. These phases include: proposal writing, scheduling activities, conducting surveys, and training and assigning workers. Some CARTOGRAPHERS do research to develop new map-making techniques.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
14.2601	SURVEYING AND MAPPING SCIENCES	*018.262-010	FIELD-MAP EDITOR	4	3 3 ONE TO TWO YEARS
15.0201	CIVIL TECHNOLOGY	018.262-010	FIELD-MAP EDITOR	4	3 3 ONE TO TWO YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	018.262-010	FIELD-MAP EDITOR	4	3 3 ONE TO TWO YEARS

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OCCUPATION: 1649

SURVEYORS AND MAPPING SCIENTISTS, N.E.C.

These workers survey land and underwater areas to compile information used for mapping oil or mineral deposits or for building structures. They use surveying instruments to locate and compute the dimensions of land formations. They determine and record information, such as the exact elevation of land areas. Some specialize in locating and marking land formations on maps. They also may spend much of their time in an office, planning surveys, preparing reports and computations, and drawing maps.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	018.167-026	PHOTOGRAMMETRIC ENGINEER	6 6 5	FOUR TO TEN YEARS
		024.061-014	GEODESIST	6 6 6	FOUR TO TEN YEARS
		184.167-026	DIRECTOR, PHOTOGRAMMETRY FLIGHT OPE	5 4 4	FOUR TO TEN YEARS
14.1601	GEOPHYSICAL ENGINEERING	*024.061-014	GEODESIST	6 6 6	FOUR TO TEN YEARS
14.2601	SURVEYING AND MAPPING SCIENCES	*018.167-026	PHOTOGRAMMETRIC ENGINEER	6 6 5	FOUR TO TEN YEARS
		*018.167-038	SURVEYOR, GEODETIC	5 5 4	TWO TO FOUR YEARS
		*018.167-042	SURVEYOR, GEOPHYSICAL PROSPECTING	5 4 4	ONE TO TWO YEARS
		*018.167-046	SURVEYOR, MARINE	5 5 4	TWO TO FOUR YEARS
		*018.167-050	SURVEYOR, MINE	5 5 4	TWO TO FOUR YEARS
		*024.061-014	GEODESIST	6 6 6	FOUR TO TEN YEARS
		*184.167-026	DIRECTOR, PHOTOGRAMMETRY FLIGHT OPE	5 4 4	FOUR TO TEN YEARS
15.0201	CIVIL TECHNOLOGY	018.167-046	SURVEYOR, MARINE	5 5 4	TWO TO FOUR YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	018.167-038	SURVEYOR, GEODETIC	5 5 4	TWO TO FOUR YEARS
		018.167-042	SURVEYOR, GEOPHYSICAL PROSPECTING	5 4 4	ONE TO TWO YEARS
		018.167-046	SURVEYOR, MARINE	5 5 4	TWO TO FOUR YEARS
		018.167-050	SURVEYOR, MINE	5 5 4	TWO TO FOUR YEARS
15.0901	COAL MINING TECHNOLOGY	018.167-050	SURVEYOR, MINE	5 5 4	TWO TO FOUR YEARS
15.0902	MINING (EXCLUDING COAL) TECHNOLOGY	018.167-050	SURVEYOR, MINE	5 5 4	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	018.167-042	SURVEYOR, GEOPHYSICAL PROSPECTING	5 4 4	ONE TO TWO YEARS
40.0603	GEOPHYSICS AND SEISMOLOGY	*024.061-014	GEODESIST	6 6 6	FOUR TO TEN YEARS
41.0305	OCEANOGRAPHIC (PHYSICAL) TECHNOLOGY	018.167-046	SURVEYOR, MARINE	5 5 4	TWO TO FOUR YEARS

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OCCUPATION: 1699

NATURAL SCIENTISTS AND MATHEMATICIANS

These workers study biological and physical sciences as well as mathematics. They may be involved in pure science, developing and researching theories. Or they may apply their knowledge to research and develop products and processes to improve health, industry, or business. They may work as consultants in crop production or natural resources management. Others may develop computer uses for business, find cures for diseases, do statistical studies, or teach.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 1700

COMPUTER, MATHEMATICAL, AND OPERATIONS RESEARCH OCCUPATIONS

These workers use mathematical principles and analytical methods to solve scientific, industrial, business, and other technological problems. They analyze theoretical or practical problems, then plan solutions. They may use mathematical theory, statistics, computer applications, or time-motion methods of analysis. They develop computer programs, charts and graphs, or mathematical equations. They may write reports or plan ways to implement changes they recommend.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 1710

COMPUTER SCIENTISTS

These workers use computers to solve business, scientific, engineering, and other technical problems. They analyze the problem and develop a computer method or information system to solve it. They decide the data, equipment, and procedures needed to solve the problem. They then make charts, diagrams, and instructions for computers and computer operators to follow. They may prepare reports to help clients understand the problem and its computer solution.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 1712

COMPUTER SYSTEMS ANALYSTS

COMPUTER SYSTEMS ANALYSTS plan ways to use computers to solve scientific, engineering, and business problems. They determine what data must be collected, the equipment needed for computations, and the steps to be followed in processing the information. Once a computer system has been developed, they prepare charts and diagrams that describe its operation. They also may prepare reports to help clients understand the proposed systems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
07.0306	BUSINESS SYSTEMS ANALYSIS	012.167-066	SYSTEMS ANALYST, ELECTRONIC DATA PR	5 5 5 TWO TO FOUR YEARS
11.0601	MICROCOMPUTER APPLICATIONS	*012.167-066	SYSTEMS ANALYST, ELECTRONIC DATA PR	5 5 5 TWO TO FOUR YEARS

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OCCUPATION: 1719

COMPUTER SCIENTISTS, N.E.C.

These SCIENTISTS use computers to analyze and solve business, scientific, engineering, and other technical problems. They design information systems and plan ways to collect, organize, store, and retrieve (set back) information using computers. They also prepare charts, diagrams, and instructions for computers and computer operators to follow.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.1201	MANAGEMENT INFORMATION SYSTEMS	*109.067-010	INFORMATION SCIENTIST	5 5 5	TWO TO FOUR YEARS
07.0306	BUSINESS SYSTEMS ANALYSIS	020.224-010	CUSTOMER-SUPPORT SPECIALIST	4 4 4	TWO TO FOUR YEARS
		109.067-010	INFORMATION SCIENTIST	5 5 5	TWO TO FOUR YEARS
11.0501	SYSTEMS ANALYSIS	020.224-010	CUSTOMER-SUPPORT SPECIALIST	4 4 4	TWO TO FOUR YEARS
		109.067-010	INFORMATION SCIENTIST	5 5 5	TWO TO FOUR YEARS
11.0601	MICROCOMPUTER APPLICATIONS	*020.224-010	CUSTOMER-SUPPORT SPECIALIST	4 4 4	TWO TO FOUR YEARS
		*109.067-010	INFORMATION SCIENTIST	5 5 5	TWO TO FOUR YEARS

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OCCUPATION: 1720

OPERATIONS AND RESEARCH ANALYSTS

These workers study businesses, industries, and other organizations to understand how they are managed and how they operate. They develop models, flow charts, and computer programs that can be used to solve operations and management problems. They may examine various aspects of an organization and suggest ways to improve the efficiency of personnel and procedures. They develop and implement plans for changes they recommend.

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OCCUPATION: 1721

OPERATIONS RESEARCHERS AND ANALYSTS

These people study problems that affect the ways businesses or other organizations are managed and operated. They try to find ways to solve problems using computers, models, and other methods. For example, they may develop math models, flow charts, and computer programs that can be used in planning and controlling large projects. They do research to find out which models and programs work best in a given situation. They prepare reports for managers that define operational problems and offer possible solutions.

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	020.067-018	OPERATIONS-RESEARCH ANALYST	6 6 6	TWO TO FOUR YEARS
06.0501	BUSINESS ECONOMICS	*020.067-018	OPERATIONS-RESEARCH ANALYST	6 6 6	TWO TO FOUR YEARS
06.1302	OPERATIONS RESEARCH (QUANTITATIVE METHOD	*020.067-018	OPERATIONS-RESEARCH ANALYST	6 6 6	TWO TO FOUR YEARS
06.1501	ORGANIZATIONAL BEHAVIOR	*020.067-018	OPERATIONS-RESEARCH ANALYST	6 6 6	TWO TO FOUR YEARS
14.1301	ENGINEERING SCIENCE	*020.067-018	OPERATIONS-RESEARCH ANALYST	6 6 6	TWO TO FOUR YEARS
27.0301	APPLIED MATHEMATICS	*020.067-018	OPERATIONS-RESEARCH ANALYST	6 6 6	TWO TO FOUR YEARS

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OCCUPATION: 1722

SYSTEMS RESEARCHERS AND ANALYSTS, EXCEPT COMPUTER

These workers investigate the operations and organization of work in businesses and factories. They observe work being done, analyze tasks and results, and recommend changes to make work flow more efficiently. They may observe workers performing a particular task or examine the organization of an entire department to determine the most efficient use of personnel, time, and materials.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
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OCCUPATION: 1730

MATHEMATICAL SCIENTISTS

These workers use mathematics to research and solve problems in science, industry, and business. They may look for new theoretical or practical applications of mathematics. They conduct experiments or plan scientific or technical products. Some work with statistics, conducting experiments, surveys, and opinion polls. Others use statistics and business principles to determine insurance and pension program rates.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1732

ACTUARIES

ACTUARIES use their knowledge of math, statistics, and business to help insurance companies and pension programs set their rates. They try to determine how likely incidences of death, sickness, unemployment, and property loss will be among various groups of people. They then determine the amounts of premiums (payments for policies) which will be needed from people to ensure that companies can pay all claims and expenses.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	020.167-010	ACTUARY	5 5 5 FOUR TO TEN YEARS
27.0201	ACTUARIAL SCIENCES	*020.167-010	ACTUARY	5 5 5 FOUR TO TEN YEARS

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OCCUPATION: 1733

STATISTICIANS

STATISTICIANS use math to design, carry out, and evaluate the results of experiments, surveys and opinion polls. They also use math to determine what might happen in the future. They often apply their knowledge in a certain subject area, such as economics, human behavior, natural science, or engineering. Some STATISTICIANS use math theories to design and improve statistical methods. Others teach or do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	020.067-022	STATISTICIAN, MATHEMATICAL	6 6 6	FOUR TO TEN YEARS
		020.167-014	FINANCIAL ANALYST	5 5 4	TWO TO FOUR YEARS
		020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
06.0201	ACCOUNTING	*020.167-014	FINANCIAL ANALYST	5 5 4	TWO TO FOUR YEARS
06.0301	BANKING AND FINANCE	*020.167-014	FINANCIAL ANALYST	5 5 4	TWO TO FOUR YEARS
06.0501	BUSINESS ECONOMICS	*020.167-014	FINANCIAL ANALYST	5 5 4	TWO TO FOUR YEARS
06.1001	INVESTMENTS AND SECURITIES	*020.167-014	FINANCIAL ANALYST	5 5 4	TWO TO FOUR YEARS
06.1302	OPERATIONS RESEARCH (QUANTITATIVE METHOD	*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
13.0603	EDUCATIONAL STATISTICS AND RESEARCH	*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
13.0604	EDUCATIONAL TESTING, EVALUATION, AND MEA	*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
13.0605	ELEMENTARY AND SECONDARY RESEARCH	*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
13.0606	HIGHER EDUCATION RESEARCH	*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
26.0602	BIOMETRICS AND BIostatISTICS	*020.067-022	STATISTICIAN, MATHEMATICAL	6 6 6	FOUR TO TEN YEARS
		*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
27.0301	APPLIED MATHEMATICS	*020.067-022	STATISTICIAN, MATHEMATICAL	6 6 6	FOUR TO TEN YEARS
		*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
27.0401	PURE MATHEMATICS	*020.067-022	STATISTICIAN, MATHEMATICAL	6 6 6	FOUR TO TEN YEARS
27.0501	STATISTICS	*020.067-022	STATISTICIAN, MATHEMATICAL	6 6 6	FOUR TO TEN YEARS
		*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS
42.1301	PSYCHOMETRICS	*020.167-026	STATISTICIAN, APPLIED	5 5 4	TWO TO FOUR YEARS

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OCCUPATION: 1733 STATISTICIANS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
42.1501	QUANTITATIVE PSYCHOLOGY	*020.167-026	STATISTICIAN, APPLIED	5 5 4 TWO TO FOUR YEARS
45.0501	DEMOGRAPHY	*020.167-026	STATISTICIAN, APPLIED	5 5 4 TWO TO FOUR YEARS

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OCCUPATION: 1739

MATHEMATICAL SCIENTISTS, N.E.C.

These SCIENTISTS conduct research in basic math and use math to solve problems in science, industry, and other fields. They study and test theories used to explain facts or events, and look for new uses of algebra, geometry, and other branches of math. They use calculators and computers, and prepare graphs, charts, and reports. Some look for ways to use math in fields such as military planning or electronic data processing. Some teach and do research at a college or university. Many also do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	020.067-014	MATHEMATICIAN	6	6	6 FOUR TO TEN YEARS
		020.187-018	WEIGHT ANALYST	5	5	5 TWO TO FOUR YEARS
		199.267-014	CRYPTANALYST	5	5	5 FOUR TO TEN YEARS
06.1302	OPERATIONS RESEARCH (QUANTITATIVE METHOD	*020.067-014	MATHEMATICIAN	6	6	6 FOUR TO TEN YEARS
14.1301	ENGINEERING SCIENCE	*020.067-014	MATHEMATICIAN	6	6	6 FOUR TO TEN YEARS
		*020.187-018	WEIGHT ANALYST	5	5	5 TWO TO FOUR YEARS
27.0301	APPLIED MATHEMATICS	*020.067-014	MATHEMATICIAN	6	6	6 FOUR TO TEN YEARS
		*020.187-018	WEIGHT ANALYST	5	5	5 TWO TO FOUR YEARS
		*199.267-014	CRYPTANALYST	5	5	5 FOUR TO TEN YEARS
27.0401	PURE MATHEMATICS	*020.067-014	MATHEMATICIAN	6	6	6 FOUR TO TEN YEARS

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OCCUPATION: 1800

NATURAL SCIENTISTS

These workers study the principles and applications of physical and life sciences. They may be involved in pure research or in developing new products and improved production methods. They may work in physics, chemistry, or geology as physical scientists. Others may be life scientists who study agriculture and food production, forestry, or biological sciences. Their areas of study vary from the exploration of energy to understanding life processes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 1840

PHYSICAL SCIENTISTS

These workers study the earth, its atmosphere, and outer space. They may study the physical laws or chemical make-up of the earth or universe. Geologists may study the earth's crust or fossil fuel sources. Physicists may explore principles of light or energy. Chemical research and the development of new products and drugs is another area of physical science. Some workers study the atmosphere while others explore outer space, learning about stars and planets.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1842

ASTRONOMERS

ASTRONOMERS study outer space to find scientific answers to questions about the nature of the universe. They observe the skies through large telescopes and use spectroscopes to study light from stars. They also study radio waves, x-rays, and cosmic rays. Some use math and physics to form theories and math models to explain the growth and development of space bodies. Most do research or teach. Some design astronomical instruments or do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	021.067-010	ASTRONOMER	6 6 6	FOUR TO TEN YEARS
40.0201	ASTRONOMY	*021.067-010	ASTRONOMER	6 6 6	FOUR TO TEN YEARS
40.0301	ASTROPHYSICS	*021.067-010	ASTRONOMER	6 6 6	FOUR TO TEN YEARS
40.0807	OPTICS	*021.067-010	ASTRONOMER	6 6 6	FOUR TO TEN YEARS

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OCCUPATION: 1843

PHYSICISTS

PHYSICISTS use the principles, laws, and theories of matter and energy to help solve problems in science, industry, medicine, and other fields. Some do basic research to increase scientific knowledge. For example, they look into the structures of the atom and the nature of gravity. Others do research to help develop new products and processes. Many teach and do research in colleges and universities. A few work in inspection, quality control, and other jobs in industry. Some do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	023.061-010	ELECTRO-OPTICAL ENGINEER	6 6 6	FOUR TO TEN YEARS
		023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
		023.067-010	PHYSICIST, THEORETICAL	6 6 6	FOUR TO TEN YEARS
		079.021-010	HEALTH PHYSICIST	6 5 5	FOUR TO TEN YEARS
		079.021-014	MEDICAL PHYSICIST	6 5 5	FOUR TO TEN YEARS
14.1101	ENGINEERING MECHANICS	*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
14.1201	ENGINEERING PHYSICS	*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
40.0301	ASTROPHYSICS	*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
		*023.067-010	PHYSICIST, THEORETICAL	6 6 6	FOUR TO TEN YEARS
40.0802	ATOMIC/MOLECULAR PHYSICS	*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
		*023.067-010	PHYSICIST, THEORETICAL	6 6 6	FOUR TO TEN YEARS
40.0806	NUCLEAR PHYSICS	*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
		*023.067-010	PHYSICIST, THEORETICAL	6 6 6	FOUR TO TEN YEARS
40.0807	OPTICS	*023.061-010	ELECTRO-OPTICAL ENGINEER	6 6 6	FOUR TO TEN YEARS
		*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
40.0808	SOLID STATE PHYSICS	*023.061-014	PHYSICIST	6 6 6	FOUR TO TEN YEARS
		*023.067-010	PHYSICIST, THEORETICAL	6 6 6	FOUR TO TEN YEARS

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OCCUPATION: 1845

CHEMISTS, EXCEPT BIOCHEMISTS

CHEMISTS study substances and materials. They test substances to find out what they are made of and to see how they respond to other substances. They use their knowledge to develop chemical compounds and to improve products and processes. Most CHEMISTS work in research and development. However, some work in other areas such as production and inspection, sales, consulting, and teaching.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
		022.061-014	CHEMIST, FOOD	6 5 5 TWO TO FOUR YEARS
		022.137-010	LABORATORY SUPERVISOR	5 5 5 TWO TO FOUR YEARS
		022.161-010	CHEMICAL-LABORATORY CHIEF	6 5 5 FOUR TO TEN YEARS
18.0206	CLINICAL TOXICOLOGY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
40.0502	ANALYTICAL CHEMISTRY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
		*022.061-014	CHEMIST, FOOD	6 5 5 TWO TO FOUR YEARS
		*022.137-010	LABORATORY SUPERVISOR	5 5 5 TWO TO FOUR YEARS
		*022.161-010	CHEMICAL-LABORATORY CHIEF	6 5 5 FOUR TO TEN YEARS
40.0503	INORGANIC CHEMISTRY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
		*022.137-010	LABORATORY SUPERVISOR	5 5 5 TWO TO FOUR YEARS
		*022.161-010	CHEMICAL-LABORATORY CHIEF	6 5 5 FOUR TO TEN YEARS
40.0504	ORGANIC CHEMISTRY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
		*022.061-014	CHEMIST, FOOD	6 5 5 TWO TO FOUR YEARS
		*022.137-010	LABORATORY SUPERVISOR	5 5 5 TWO TO FOUR YEARS
		*022.161-010	CHEMICAL-LABORATORY CHIEF	6 5 5 FOUR TO TEN YEARS
40.0505	PHARMACEUTICAL CHEMISTRY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
		*022.137-010	LABORATORY SUPERVISOR	5 5 5 TWO TO FOUR YEARS
		*022.161-010	CHEMICAL-LABORATORY CHIEF	6 5 5 FOUR TO TEN YEARS
40.0506	PHYSICAL CHEMISTRY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS
		*022.137-010	LABORATORY SUPERVISOR	5 5 5 TWO TO FOUR YEARS
		*022.161-010	CHEMICAL-LABORATORY CHIEF	6 5 5 FOUR TO TEN YEARS
40.0602	GEOCHEMISTRY	*022.061-010	CHEMIST	6 6 5 FOUR TO TEN YEARS

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OCCUPATION: 1846

ATMOSPHERIC AND SPACE SCIENTISTS

These SCIENTISTS study the atmosphere (the air that surrounds the earth) and the climate in certain areas or regions. Some study current weather information, such as air pressure, temperature, humidity, and wind velocity to predict the weather. They forecast the weather for the next few days and for the distant future. Others do research or teach.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	025.062-010	METEOROLOGIST	5 5 5 TWO TO FOUR YEARS
40.0401	ATMOSPHERIC SCIENCES AND METEOROLOGY	*025.062-010	METEOROLOGIST	5 5 5 TWO TO FOUR YEARS
40.0901	PLANETARY SCIENCE	*025.062-010	METEOROLOGIST	5 5 5 TWO TO FOUR YEARS

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OCCUPATION: 1847

GEOLOGISTS

GEOLOGISTS study the structure, makeup, and history of the earth's crust. Some study the air and water, gas, and oil supplies within the earth. Others examine surface rocks and drill for rock cores to find how rocks are arranged below the earth's surface. They also identify rocks and minerals, conduct field surveys, draw maps, take measurements, and record data. They help predict earthquakes and find oil and ore deposits. Some GEOLOGISTS teach or do research.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	024.061-010	CRYSTALLOGRAPHER	6 6 6	FOUR TO TEN YEARS
		024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		024.061-022	GEOLOGIST, PETROLEUM	6 6 5	FOUR TO TEN YEARS
		024.061-026	GEOPHYSICAL PROSPECTOR	6 6 6	FOUR TO TEN YEARS
		024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		024.061-034	HYDROLOGIST	6 6 6	FOUR TO TEN YEARS
		024.061-038	MINERALOGIST	6 6 6	FOUR TO TEN YEARS
		024.061-042	PALEONTOLOGIST	6 6 6	FOUR TO TEN YEARS
		024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
		024.061-054	STRATIGRAPHER	6 6 5	FOUR TO TEN YEARS
		024.161-010	ENGINEER, SOILS	6 5 6	TWO TO FOUR YEARS
		024.167-010	GEOPHYSICAL-LABORATORY CHIEF	6 6 6	OVER 10 YEARS
14.1501	GEOLOGICAL ENGINEERING	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-022	GEOLOGIST, PETROLEUM	6 6 5	FOUR TO TEN YEARS
		*024.061-026	GEOPHYSICAL PROSPECTOR	6 6 6	FOUR TO TEN YEARS
		*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		*024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.161-010	ENGINEER, SOILS	6 5 6	TWO TO FOUR YEARS
14.1601	GEOPHYSICAL ENGINEERING	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-026	GEOPHYSICAL PROSPECTOR	6 6 6	FOUR TO TEN YEARS
		*024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		*024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.167-010	GEOPHYSICAL-LABORATORY CHIEF	6 6 6	OVER 10 YEARS
14.2501	PETROLEUM ENGINEERING	*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		*024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
40.0401	ATMOSPHERIC SCIENCES AND METEOROLOGY	*024.061-034	HYDROLOGIST	6 6 6	FOUR TO TEN YEARS
40.0601	GEOLOGY	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS

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OCCUPATION: 1847 GEOLOGISTS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*024.061-022	GEOLOGIST, PETROLEUM	6 6 5	FOUR TO TEN YEARS
		*024.061-026	GEOPHYSICAL PROSPECTOR	6 6 6	FOUR TO TEN YEARS
		*024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		*024.061-038	MINERALOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-042	PALEONTOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		*024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-054	STRATIGRAPHER	6 6 5	FOUR TO TEN YEARS
		*024.167-010	GEOPHYSICAL-LABORATORY CHIEF	6 6 6	OVER 10 YEARS
40.0602	GEOCHEMISTRY	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-038	MINERALOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
40.0603	GEOPHYSICS AND SEISMOLOGY	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-026	GEOPHYSICAL PROSPECTOR	6 6 6	FOUR TO TEN YEARS
		*024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		*024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.167-010	GEOPHYSICAL-LABORATORY CHIEF	6 6 6	OVER 10 YEARS
40.0604	PALEONTOLOGY	*024.061-042	PALEONTOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-054	STRATIGRAPHER	6 6 5	FOUR TO TEN YEARS
40.0702	OCEANOGRAPHY	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		*024.061-034	HYDROLOGIST	6 6 6	FOUR TO TEN YEARS
40.0703	EARTH SCIENCE	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		*024.061-038	MINERALOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-042	PALEONTOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		*024.061-054	STRATIGRAPHER	6 6 5	FOUR TO TEN YEARS
40.0901	PLANETARY SCIENCE	*024.061-018	GEOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-030	GEOPHYSICIST	6 5 5	FOUR TO TEN YEARS
		*024.061-034	HYDROLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-038	MINERALOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-042	PALEONTOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-046	PETROLOGIST	6 6 5	FOUR TO TEN YEARS
		*024.061-050	SEISMOLOGIST	6 6 6	FOUR TO TEN YEARS
		*024.061-054	STRATIGRAPHER	6 6 5	FOUR TO TEN YEARS

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OCCUPATION: 1849

PHYSICAL SCIENTISTS, N.E.C.

These workers study the nature and uses of different areas of the earth. They collect information to determine social and natural boundaries, prepare maps, and plan ways to use regions efficiently. They also may do research to find materials that might benefit science and industry, or ways to control and prevent pollution. Many teach and conduct research at a college or university. Many work as consultants. These workers prepare and interpret maps, and diagrams, write reports, and may use complex instruments and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
		029.067-014	GEOGRAPHER, PHYSICAL	6 6 6	TWO TO FOUR YEARS
		029.081-010	ENVIRONMENTAL ANALYST	6 6 6	FOUR TO TEN YEARS
		029.081-014	MATERIALS SCIENTIST	6 6 5	TWO TO FOUR YEARS
		029.167-014	PROJECT MANAGER, ENVIRONMENTAL RESE	5 5 5	FOUR TO TEN YEARS
05.0101	AFRICAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0102	AMERICAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0103	ASIAN STUDIES, GENERAL	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0104	EAST ASIAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0105	EASTERN EUROPEAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0107	LATIN AMERICAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0108	MIDDLE EASTERN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0109	PACIFIC AREA STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0111	SCANDANAVIAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0112	SOUTH ASIAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0114	WESTERN EUROPEAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1849 PHYSICAL SCIENTISTS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
05.0115	CANADIAN STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0204	ISLAMIC STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
05.0205	JEWISH STUDIES	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
14.1401	ENVIRONMENTAL HEALTH ENGINEERING	*029.081-010	ENVIRONMENTAL ANALYST	6 6 6	FOUR TO TEN YEARS
		*029.167-014	PROJECT MANAGER, ENVIRONMENTAL RESE	5 5 5	FOUR TO TEN YEARS
18.0206	CLINICAL TOXICOLOGY	*029.081-010	ENVIRONMENTAL ANALYST	6 6 6	FOUR TO TEN YEARS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*029.081-010	ENVIRONMENTAL ANALYST	6 6 6	FOUR TO TEN YEARS
40.0703	EARTH SCIENCE	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
		*029.067-014	GEOGRAPHER, PHYSICAL	6 6 6	TWO TO FOUR YEARS
40.0901	PLANETARY SCIENCE	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
		*029.067-014	GEOGRAPHER, PHYSICAL	6 6 6	TWO TO FOUR YEARS
45.0701	GEOGRAPHY	*029.067-010	GEOGRAPHER	6 6 6	TWO TO FOUR YEARS
		*029.067-014	GEOGRAPHER, PHYSICAL	6 6 6	TWO TO FOUR YEARS

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OCCUPATION: 1850

LIFE SCIENTISTS

These workers study the life cycles of living things, including their cell structure, reproduction processes, and diseases. They use their knowledge to improve the health of living things, increase crop production, or manage natural resources such as forests, for example. They research diseases, testing drugs and other cures. They may also work as consultants to individuals and industries concerned with the health and productivity of living things.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1852

FORESTRY AND CONSERVATION SCIENTISTS

These SCIENTISTS are concerned with the development, preservation, and use of forest resources. They study forest conditions and plan ways to ensure that forest resources meet present and future public needs. They develop ways to protect resources against fire, insects, diseases, floods, and erosion. They do research to discover scientific principles and facts needed for good forest management. They also seek to develop new and better methods and tools for conserving resources. Many of these workers spend a good deal of time working directly with farmers, ranchers, and other land managers developing conservation programs. Some teach at colleges or universities.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	040.061-062	WOOD TECHNOLOGIST	6 5 5	FOUR TO TEN YEARS
02.0409	RANGE MANAGEMENT	040.061-046	RANGE MANAGER	6 6 6	FOUR TO TEN YEARS
		049.127-010	PARK NATURALIST	5 4 5	TWO TO FOUR YEARS
02.0501	SOIL SCIENCES	*040.061-054	SOIL CONSERVATIONIST	6 6 6	FOUR TO TEN YEARS
		*040.261-010	SOIL-CONSERVATION TECHNICIAN	5 4 4	TWO TO FOUR YEARS
03.0202	CONSERVATION	040.061-030	FOREST ECOLOGIST	6 6 6	FOUR TO TEN YEARS
		040.061-034	FORESTER	5 5 5	FOUR TO TEN YEARS
		040.061-046	RANGE MANAGER	6 6 6	FOUR TO TEN YEARS
		040.061-054	SOIL CONSERVATIONIST	6 6 6	FOUR TO TEN YEARS
		049.127-010	PARK NATURALIST	5 4 5	TWO TO FOUR YEARS
03.0203	RESOURCES PROTECTION AND REGULATION	049.127-010	PARK NATURALIST	5 4 5	TWO TO FOUR YEARS
03.0402	FOREST PRODUCTION	040.061-050	SILVICULTURIST	5 5 5	TWO TO FOUR YEARS
03.0405	LOGGING	040.061-034	FORESTER	5 5 5	FOUR TO TEN YEARS
03.0502	FORESTRY SCIENCE	*040.061-030	FOREST ECOLOGIST	6 6 6	FOUR TO TEN YEARS
		*040.061-034	FORESTER	5 5 5	FOUR TO TEN YEARS
		*040.061-050	SILVICULTURIST	5 5 5	TWO TO FOUR YEARS
03.0504	FOREST ENGINEERING	*040.061-030	FOREST ECOLOGIST	6 6 6	FOUR TO TEN YEARS
		*040.061-034	FORESTER	5 5 5	FOUR TO TEN YEARS
		*040.061-050	SILVICULTURIST	5 5 5	TWO TO FOUR YEARS
03.0506	FOREST MANAGEMENT	*040.061-030	FOREST ECOLOGIST	6 6 6	FOUR TO TEN YEARS
		*040.061-034	FORESTER	5 5 5	FOUR TO TEN YEARS
		*040.061-050	SILVICULTURIST	5 5 5	TWO TO FOUR YEARS
03.0509	WOOD SCIENCE	*040.061-062	WOOD TECHNOLOGIST	6 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1852 FORESTRY AND CONSERVATION SCIENTISTS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
04.0801	LAND USE MANAGEMENT AND RECLAMATION	*040.061-046	RANGE MANAGER	6 6 6	FOUR TO TEN YEARS
		*040.061-050	SILVICULTURIST	5 5 5	TWO TO FOUR YEARS
		*040.061-054	SOIL CONSERVATIONIST	6 6 6	FOUR TO TEN YEARS
26.0603	ECOLOGY	*040.061-030	FOREST ECOLOGIST	6 6 6	FOUR TO TEN YEARS

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OCCUPATION: 1853

AGRICULTURAL AND FOOD SCIENTISTS

These SCIENTISTS study ways to produce foods, fibers, and other farm products. They also look for new and better ways to manage and protect these natural resources. Many do research in labs to increase our knowledge of living things and to apply this knowledge to increase crop yields. Some do research on the breeding, feeding, and diseases of farm animals. Others concern themselves with insect control and soil management.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	040.061-010	AGRONOMIST	6 6 6	FOUR TO TEN YEARS
		040.061-014	ANIMAL SCIENTIST	6 6 6	FOUR TO TEN YEARS
		040.061-018	DAIRY SCIENTIST	6 6 6	FOUR TO TEN YEARS
		040.061-038	HORTICULTURIST	6 6 6	FOUR TO TEN YEARS
		040.061-042	POULTRY SCIENTIST	6 6 6	FOUR TO TEN YEARS
		041.061-014	ANIMAL BREEDER	6 6 6	FOUR TO TEN YEARS
		041.061-018	APICULTURIST	6 6 6	FOUR TO TEN YEARS
		041.061-046	ENTOMOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.081-010	FOOD TECHNOLOGIST	6 5 4	TWO TO FOUR YEARS
01.0701	INTERNATIONAL AGRICULTURE	*040.061-010	AGRONOMIST	6 6 6	FOUR TO TEN YEARS
02.0301	FOOD SCIENCES	*040.061-018	DAIRY SCIENTIST	6 6 6	FOUR TO TEN YEARS
		*040.061-038	HORTICULTURIST	6 6 6	FOUR TO TEN YEARS
		*040.061-042	POULTRY SCIENTIST	6 6 6	FOUR TO TEN YEARS
		*041.081-010	FOOD TECHNOLOGIST	6 5 4	TWO TO FOUR YEARS
02.0402	AGRONOMY	041.061-082	PLANT BREEDER	6 6 6	FOUR TO TEN YEARS
02.0501	SOIL SCIENCES	*040.061-058	SOIL SCIENTIST	6 6 6	FOUR TO TEN YEARS
04.0801	LAND USE MANAGEMENT AND RECLAMATION	*040.061-010	AGRONOMIST	6 6 6	FOUR TO TEN YEARS
26.0304	PLANT GENETICS	*041.061-082	PLANT BREEDER	6 6 6	FOUR TO TEN YEARS
26.0702	ENTOMOLOGY	*041.061-018	APICULTURIST	6 6 6	FOUR TO TEN YEARS
		*041.061-046	ENTOMOLOGIST	6 6 6	FOUR TO TEN YEARS
26.0703	GENETICS, HUMAN AND ANIMAL	*041.061-014	ANIMAL BREEDER	6 6 6	FOUR TO TEN YEARS

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OCCUPATION: 1854

BIOLOGICAL SCIENTISTS

BIOLOGICAL SCIENTISTS study living things. Many are involved in research and development. They conduct research to gain information about living things that can be used to solve problems in medicine, industry, and agriculture. They often use complex research techniques and lab equipment to do their work. Others do consulting work, teach, write for technical journals, or test and inspect foods, drugs and other products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	041.061-022	AQUATIC BIOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-026	BIOCHEMIST	6 6 6	FOUR TO TEN YEARS
		041.061-030	BIOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-034	BIOPHYSICIST	6 6 6	FOUR TO TEN YEARS
		041.061-038	BOTANIST	6 6 6	FOUR TO TEN YEARS
		041.061-042	CYTOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-050	GENETICIST	6 6 6	FOUR TO TEN YEARS
		041.061-058	MICROBIOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-062	MYCOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-066	NEMATOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-078	PHYSIOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-086	PLANT PATHOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-090	ZOOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-094	STAFF TOXICOLOGIST	6 6 5	FOUR TO TEN YEARS
		041.167-010	ENVIRONMENTAL EPIDEMIOLOGIST	6 6 5	FOUR TO TEN YEARS
18.0202	CLINICAL BIOCHEMISTRY	*041.061-026	BIOCHEMIST	6 6 6	FOUR TO TEN YEARS
		*041.061-030	BIOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.061-094	STAFF TOXICOLOGIST	6 6 5	FOUR TO TEN YEARS
18.0203	CLINICAL MICROBIOLOGY	*041.061-058	MICROBIOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.061-094	STAFF TOXICOLOGIST	6 6 5	FOUR TO TEN YEARS
18.0205	CLINICAL PHYSIOLOGY	041.061-078	PHYSIOLOGIST	6 6 6	FOUR TO TEN YEARS
18.0206	CLINICAL TOXICOLOGY	*041.061-026	BIOCHEMIST	6 6 6	FOUR TO TEN YEARS
		*041.061-094	STAFF TOXICOLOGIST	6 6 5	FOUR TO TEN YEARS
18.2202	EPIDEMIOLOGY	*041.061-026	BIOCHEMIST	6 6 6	FOUR TO TEN YEARS
		*041.167-010	ENVIRONMENTAL EPIDEMIOLOGIST	6 6 5	FOUR TO TEN YEARS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*041.061-094	STAFF TOXICOLOGIST	6 6 5	FOUR TO TEN YEARS
26.0101	BIOLOGY, GENERAL	*041.061-030	BIOLOGIST	6 6 6	FOUR TO TEN YEARS

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OCCUPATION: 1854 BIOLOGICAL SCIENTISTS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
26.0201	BIOCHEMISTRY AND BIOPHYSICS	*041.061-026	BIOCHEMIST	6	6	6	FOUR TO TEN YEARS
		*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-034	BIOPHYSICIST	6	6	6	FOUR TO TEN YEARS
		*041.061-094	STAFF TOXICOLOGIST	6	6	5	FOUR TO TEN YEARS
26.0301	BOTANY, GENERAL	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0302	BACTERIOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-058	MICROBIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0304	PLANT GENETICS	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-038	BOTANIST	6	6	6	FOUR TO TEN YEARS
		*041.061-050	GENETICIST	6	6	6	FOUR TO TEN YEARS
26.0305	PLANT PATHOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-038	BOTANIST	6	6	6	FOUR TO TEN YEARS
		*041.061-086	PLANT PATHOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0307	PLANT PHYSIOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-038	BOTANIST	6	6	6	FOUR TO TEN YEARS
		*041.061-078	PHYSIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0401	CELL BIOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-042	CYTOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0402	MOLECULAR BIOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-042	CYTOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0501	MICROBIOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-058	MICROBIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0601	ANATOMY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0602	BIOMETRICS AND BIOSTATISTICS	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0603	ECOLOGY	*041.061-022	AQUATIC BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
26.0604	EMBRYOLOGY	*041.061-030	BIOLOGIST	6	6	6	FOUR TO TEN YEARS
		*041.061-050	GENETICIST	6	6	6	FOUR TO TEN YEARS
		*041.061-090	ZOOLOGIST	6	6	6	FOUR TO TEN YEARS

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OCCUPATION: 1854 BIOLOGICAL SCIENTISTS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- CODE TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GED- R M L TRAINING TIME
26.0605 ENDOCRINOLOGY	*041.061-030 BIOLOGIST	6 6 6 FOUR TO TEN YEARS
26.0606 HISTOLOGY	*041.061-030 BIOLOGIST *041.061-042 CYTOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
26.0607 MARINE BIOLOGY	*041.061-022 AQUATIC BIOLOGIST *041.061-030 BIOLOGIST *041.061-038 BOTANIST *041.061-090 ZOOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
26.0608 NEUROSCIENCES	*041.061-030 BIOLOGIST *041.061-034 BIOPHYSICIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
26.0610 PARASITOLOGY	*041.061-062 MYCOLOGIST *041.061-066 NEMATOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
26.0612 TOXICOLOGY	*041.061-094 STAFF TOXICOLOGIST	6 6 5 FOUR TO TEN YEARS
26.0703 GENETICS, HUMAN AND ANIMAL	*041.061-050 GENETICIST *041.061-090 ZOOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
26.0704 PATHOLOGY, HUMAN AND ANIMAL	*041.061-066 NEMATOLOGIST	6 6 6 FOUR TO TEN YEARS
26.0705 PHARMACOLOGY, HUMAN AND ANIMAL	*041.061-026 BIOCHEMIST	6 6 6 FOUR TO TEN YEARS
26.0706 PHYSIOLOGY, HUMAN AND ANIMAL	*041.061-030 BIOLOGIST *041.061-078 PHYSIOLOGIST *041.061-090 ZOOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
30.0101 BIOLOGICAL AND PHYSICAL SCIENCES	*041.061-026 BIOCHEMIST *041.061-034 BIOPHYSICIST	6 6 6 FOUR TO TEN YEARS 6 6 6 FOUR TO TEN YEARS
40.0502 ANALYTICAL CHEMISTRY	*041.061-026 BIOCHEMIST *041.061-094 STAFF TOXICOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 5 FOUR TO TEN YEARS
40.0505 PHARMACEUTICAL CHEMISTRY	*041.061-026 BIOCHEMIST *041.061-094 STAFF TOXICOLOGIST	6 6 6 FOUR TO TEN YEARS 6 6 5 FOUR TO TEN YEARS

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OCCUPATION: 1855

MEDICAL SCIENTISTS

MEDICAL SCIENTISTS are concerned with human and animal health. They conduct research to increase understanding of and develop cures for health problems. They study the structures of cells, tissue, and organs, and the effects which agents such as drugs, poisons, parasites, and bacteria have upon living tissue.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	041.061-010	ANATOMIST	6 6 6	FOUR TO TEN YEARS
		041.061-054	HISTOPATHOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-070	PARASITOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.061-074	PHARMACOLOGIST	6 6 6	FOUR TO TEN YEARS
		041.067-010	MEDICAL COORDINATOR, PESTICIDE USE	6 5 6	OVER 10 YEARS
		041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
18.0201	CLINICAL ANATOMY	*041.061-010	ANATOMIST	6 6 6	FOUR TO TEN YEARS
18.0202	CLINICAL BIOCHEMISTRY	*041.061-054	HISTOPATHOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.061-070	PARASITOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.061-074	PHARMACOLOGIST	6 6 6	FOUR TO TEN YEARS
18.0203	CLINICAL MICROBIOLOGY	*041.061-070	PARASITOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.061-074	PHARMACOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
18.0204	CLINICAL PATHOLOGY	*041.061-054	HISTOPATHOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
18.0206	CLINICAL TOXICOLOGY	*041.061-074	PHARMACOLOGIST	6 6 6	FOUR TO TEN YEARS
18.1018	PATHOLOGY	*041.061-054	HISTOPATHOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
18.2201	PUBLIC HEALTH LABORATORY SCIENCE	*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
18.2202	EPIDEMIOLOGY	*041.061-054	HISTOPATHOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.061-070	PARASITOLOGIST	6 6 6	FOUR TO TEN YEARS
		*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
26.0302	BACTERIOLOGY	*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
26.0501	MICROBIOLOGY	*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6	TWO TO FOUR YEARS
26.0601	ANATOMY	*041.061-010	ANATOMIST	6 6 6	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 1855 MEDICAL SCIENTISTS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
26.0603	ECOLOGY	*041.067-010	MEDICAL COORDINATOR, PESTICIDE USE	6 5 6 OVER 10 YEARS
26.0605	ENDOCRINOLOGY	*041.061-010	ANATOMIST	6 6 6 FOUR TO TEN YEARS
26.0606	HISTOLOGY	*041.061-054	HISTOPATHOLOGIST	6 6 6 FOUR TO TEN YEARS
26.0610	PARASITOLOGY	*041.061-070	PARASITOLOGIST	6 6 6 FOUPT TO TEN YEARS
26.0612	TOXICOLOGY	*041.061-074	PHARMACOLOGIST	6 6 6 FOUR TO TEN YEARS
26.0704	PATHOLOGY, HUMAN AND ANIMAL	*041.061-054	HISTOPATHOLOGIST	6 6 6 FOUR TO TEN YEARS
		*041.061-070	PARASITOLOGIST	6 6 6 FOUR TO TEN YEARS
		*041.261-010	PUBLIC-HEALTH MICROBIOLOGIST	6 6 6 TWO TO FOUR YEARS
26.0705	PHARMACOLOGY, HUMAN AND ANIMAL	*041.061-074	PHARMACOLOGIST	6 6 6 FOUR TO TEN YEARS
26.0706	PHYSIOLOGY, HUMAN AND ANIMAL	*041.061-010	ANATOMIST	6 6 6 FOUR TO TEN YEARS
40.0505	PHARMACEUTICAL CHEMISTRY	*041.061-074	PHARMACOLOGIST	6 6 6 FOUR TO TEN YEARS
42.1401	PSYCHOPHARMACOLOGY	*041.061-074	PHARMACOLOGIST	6 6 6 FOUR TO TEN YEARS

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OCCUPATION: 1899

SOCIAL SCIENTISTS, SOCIAL WORKERS, RELIGIOUS WORKERS, AND LAWYERS

These workers are concerned with understanding human behavior and providing services to insure the well-being of groups and individuals. They may provide historical or theoretical information about behavior or they may be involved in social service programs. They may organize social and religious activities, oversee social welfare programs, or counsel clients. Some are economic or urban planners. Others represent individuals' legal rights in courts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1900

SOCIAL SCIENTISTS AND URBAN PLANNERS

These workers examine human behavior and needs. They may study past or present economic, political, or social behaviors. Their findings and theories are used to influence social policy and planning. They may influence economic policy, political plans, or urban and rural planning. Historical, economic, and social factors are considered in understanding and planning for future needs and development.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1910

SOCIAL SCIENTISTS

These workers study human behavior, interactions, institutions, and history. They may study the economic or political structure of a society to determine new policies or actions. They may study history to relate past and present events. Some study human behavior as people interact to deal with problems. Others provide individual and group counseling. Social scientists consult with businesses institutions, and individuals to solve problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1912

ECONOMISTS

ECONOMISTS study the way a society uses resources such as land, labor, raw materials, and machinery to provide goods and services. They plan and conduct research to determine the costs and benefits of making, distributing, and using resources in a particular way. Some develop theories and models to explain problems such as inflation. Most, however, apply their skills to solve problems in a certain area, such as finance, labor, agriculture, or health. They give economic advice to business firms, insurance companies, banks, and others.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
01.0103	AGRICULTURAL ECONOMICS	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0101	AFRICAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0102	AMERICAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0103	ASIAN STUDIES, GENERAL	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0104	EAST ASIAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0105	EASTERN EUROPEAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0107	LATIN AMERICAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0108	MIDDLE EASTERN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0109	PACIFIC AREA STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0111	SCANDANAVIAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0112	SOUTH ASIAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0114	WESTERN EUROPEAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS
05.0115	CANADIAN STUDIES	*050.067-010	ECONOMIST	5 5 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1912 ECONOMISTS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE			
05.0204	ISLAMIC STUDIES	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
05.0205	JEWISH STUDIES	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
06.0501	BUSINESS ECONOMICS	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
		*050.067-014	MARKET-RESEARCH ANALYST 1	5	5	5 TWO TO FOUR YEARS
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
06.1402	MARKETING RESEARCH	050.067-014	MARKET-RESEARCH ANALYST 1	5	5	5 TWO TO FOUR YEARS
06.1901	TAXATION	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
08.0708	MARKETING, GENERAL	*050.067-014	MARKET-RESEARCH ANALYST 1	5	5	5 TWO TO FOUR YEARS
44.0501	PUBLIC POLICY STUDIES	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
45.0501	DEMOGRAPHY	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
45.0601	ECONOMICS	*050.067-010	ECONOMIST	5	5	5 TWO TO FOUR YEARS
		*050.067-014	MARKET-RESEARCH ANALYST 1	5	5	5 TWO TO FOUR YEARS

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OCCUPATION: 1913

HISTORIANS

HISTORIANS study and describe past events, institutions, ideas, and people. They locate and evaluate historical evidence. They study each piece of evidence carefully to make sure it is genuine. They also try to figure out what this evidence means. Sometimes they develop theories to explain the importance of facts, and try to relate current events to past events. While most HISTORIANS teach, many do research and write books. Some serve as consultants to editors and producers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	052.067-010	BIOGRAPHER	5	2	5	TWO TO FOUR YEARS
		052.067-014	DIRECTOR, STATE-HISTORICAL SOCIETY	5	3	5	FOUR TO TEN YEARS
		052.067-018	GENEALOGIST	5	2	5	TWO TO FOUR YEARS
		052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
		052.067-026	HISTORIAN, DRAMATIC ARTS	5	2	5	TWO TO FOUR YEARS
		052.167-010	DIRECTOR, RESEARCH	5	4	5	FOUR TO TEN YEARS
05.0101	AFRICAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0102	AMERICAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0103	ASIAN STUDIES, GENERAL	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0104	EAST ASIAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0105	EASTERN EUROPEAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0107	LATIN AMERICAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0108	MIDDLE EASTERN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0109	PACIFIC AREA STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0111	SCANDANAVIAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0112	SOUTH ASIAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS
05.0114	WESTERN EUROPEAN STUDIES	*052.067-022	HISTORIAN	5	2	5	TWO TO FOUR YEARS

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OCCUPATION: 1913 HISTORIANS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
05.0115	CANADIAN STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
05.0201	AFRO-AMERICAN (BLACK) STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
05.0202	AMERICAN INDIAN STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
05.0203	HISPANIC-AMERICAN STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
05.0204	ISLAMIC STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
05.0205	JEWISH STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
39.0201	BIBLE STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
39.0601	THEOLOGICAL STUDIES	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
45.0801	HISTORY	*052.067-010	BIOGRAPHER	5 2 5	TWO TO FOUR YEARS
		*052.067-014	DIRECTOR, STATE-HISTORICAL SOCIETY	5 3 5	FOUR TO TEN YEARS
		*052.067-018	GENEALOGIST	5 2 5	TWO TO FOUR YEARS
		*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
		*052.067-026	HISTORIAN, DRAMATIC ARTS	5 2 5	TWO TO FOUR YEARS
		*052.167-010	DIRECTOR, RESEARCH	5 4 5	FOUR TO TEN YEARS
45.0901	INTERNATIONAL RELATIONS	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
45.1001	POLITICAL SCIENCE AND GOVERNMENT	*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS
50.0703	ART HISTORY AND APPRECIATION	*052.067-010	BIOGRAPHER	5 2 5	TWO TO FOUR YEARS
		*052.067-022	HISTORIAN	5 2 5	TWO TO FOUR YEARS

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OCCUPATION: 1914

POLITICAL SCIENTISTS

POLITICAL SCIENTISTS study governments and how groups form, develop, operate, and interact. Some specialize in political theory or philosophy. Most concern themselves with the structure and operation of government units, such as the Presidency, Congress, and the judicial system. They also study public opinion, elections, and special interest groups. They try to help government leaders develop policies and plan programs to meet society's needs. Most POLITICAL SCIENTISTS teach or do research and consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0101	AFRICAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0102	AMERICAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0103	ASIAN STUDIES, GENERAL	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0104	EAST ASIAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0105	EASTERN EUROPEAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0107	LATIN AMERICAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0108	MIDDLE EASTERN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0109	PACIFIC AREA STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0111	SCANDANAVIAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0112	SOUTH ASIAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0114	WESTERN EUROPEAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0115	CANADIAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0201	AFRO-AMERICAN (BLACK) STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS
05.0202	AMERICAN INDIAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5 FOUR TO TEN YEARS

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OCCUPATION: 1914 POLITICAL SCIENTISTS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
05.0203	HISPANIC-AMERICAN STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5	FOUR TO TEN YEARS
05.0204	ISLAMIC STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5	FOUR TO TEN YEARS
05.0205	JEWISH STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5	FOUR TO TEN YEARS
44.0501	PUBLIC POLICY STUDIES	*051.067-010	POLITICAL SCIENTIST	6 5 5	FOUR TO TEN YEARS
45.0901	INTERNATIONAL RELATIONS	*051.067-010	POLITICAL SCIENTIST	6 5 5	FOUR TO TEN YEARS
45.1001	POLITICAL SCIENCE AND GOVERNMENT	*051.067-010	POLITICAL SCIENTIST	6 5 5	FOUR TO TEN YEARS

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OCCUPATION: 1915

PSYCHOLOGISTS

PSYCHOLOGISTS study the ways people behave and think. They seek to understand and explain people's actions. Some do research. They use lab experiments, tests, interviews, and surveys to get information about the ways people think and behave. Others conduct training sessions, do market research, help disturbed patients, and design human-machine systems. Most work in schools, where they teach, counsel, and do research work. These are just a few examples of the things PSYCHOLOGISTS may do.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
		045.061-014	PSYCHOLOGIST, ENGINEERING	6 6 6	FOUR TO TEN YEARS
		045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		045.067-014	PSYCHOLOGIST, SOCIAL	6 6 5	FOUR TO TEN YEARS
		045.067-018	PSYCHOMETRIST	5 5 5	TWO TO FOUR YEARS
		045.107-022	PSYCHOLOGIST, CLINICAL	6 5 6	FOUR TO TEN YEARS
		045.107-026	PSYCHOLOGIST, COUNSELING	6 5 5	FOUR TO TEN YEARS
		045.107-030	PSYCHOLOGIST, INDUSTRIAL-ORGANIZATI	6 6 5	FOUR TO TEN YEARS
		045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
		045.107-046	PSYCHOLOGIST, CHIEF	6 5 6	FOUR TO TEN YEARS
13.0603	EDUCATIONAL STATISTICS AND RESEARCH	*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.0604	EDUCATIONAL TESTING, EVALUATION, AND MEA	*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.067-018	PSYCHOMETRIST	5 5 5	TWO TO FOUR YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	5 5 5	FOUR TO TEN YEARS
13.0605	ELEMENTARY AND SECONDARY RESEARCH	*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.0606	HIGHER EDUCATION RESEARCH	*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.0801	SCHOOL PSYCHOLOGY	*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.067-018	PSYCHOMETRIST	5 5 5	TWO TO FOUR YEARS
		*045.107-026	PSYCHOLOGIST, COUNSELING	6 5 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.1005	EDUCATION OF THE EMOTIONALLY HANDICAPPED	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
		*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.1007	EDUCATION OF THE MULTIPLE HANDICAPPED	*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.1010	REMEDIAL EDUCATION	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1915 PSYCHOLOGISTS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
		*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.1012	SPEECH CORRECTION	*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
13.1101	STUDENT COUNSELING AND PERSONNEL SERVICE	*045.067-018	PSYCHOMETRIST	5 5 5	TWO TO FOUR YEARS
		*045.107-026	PSYCHOLOGIST, COUNSELING	6 5 5	FOUR TO TEN YEARS
18.1023	PSYCHIATRY	*045.107-046	PSYCHOLOGIST, CHIEF	6 5 6	FOUR TO TEN YEARS
42.0201	CLINICAL PSYCHOLOGY	*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		*045.107-022	PSYCHOLOGIST, CLINICAL	6 5 6	FOUR TO TEN YEARS
42.0301	COGNITIVE PSYCHOLOGY	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
		*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.107-022	PSYCHOLOGIST, CLINICAL	6 5 6	FOUR TO TEN YEARS
42.0401	COMMUNITY PSYCHOLOGY	*045.067-014	PSYCHOLOGIST, SOCIAL	6 6 5	FOUR TO TEN YEARS
42.0501	COMPARATIVE PSYCHOLOGY	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
		*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		*045.067-014	PSYCHOLOGIST, SOCIAL	6 6 5	FOUR TO TEN YEARS
42.0601	COUNSELING PSYCHOLOGY	*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS
		*045.107-026	PSYCHOLOGIST, COUNSELING	6 5 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS
42.0701	DEVELOPMENTAL PSYCHOLOGY	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
42.0801	EXPERIMENTAL PSYCHOLOGY	*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
42.0901	INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY	*045.061-014	PSYCHOLOGIST, ENGINEERING	6 6 6	FOUR TO TEN YEARS
		*045.107-030	PSYCHOLOGIST, INDUSTRIAL-ORGANIZATI	6 6 5	FOUR TO TEN YEARS
42.1001	PERSONALITY PSYCHOLOGY	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
		*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		*045.067-010	PSYCHOLOGIST, EDUCATIONAL	6 6 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1915 PSYCHOLOGISTS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		*045.067-014	PSYCHOLOGIST, SOCIAL	6 6 5	FOUR TO TEN YEARS
		*045.107-022	PSYCHOLOGIST, CLINICAL	6 5 6	FOUR TO TEN YEARS
		*045.107-026	PSYCHOLOGIST, COUNSELING	6 5 5	FOUR TO TEN YEARS
42.1101	PHYSIOLOGICAL PSYCHOLOGY	*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		*045.107-022	PSYCHOLOGIST, CLINICAL	6 5 6	FOUR TO TEN YEARS
42.1201	PSYCHOLINGUISTICS	*045.061-010	PSYCHOLOGIST, DEVELOPMENTAL	6 6 5	TWO TO FOUR YEARS
42.1301	PSYCHOMETRICS	*045.067-018	PSYCHOMETRIST	5 5 5	TWO TO FOUR YEARS
42.1401	PSYCHOPHARMACOLOGY	*045.061-018	PSYCHOLOGIST, EXPERIMENTAL	6 6 5	FOUR TO TEN YEARS
		*045.107-022	PSYCHOLOGIST, CLINICAL	6 5 6	FOUR TO TEN YEARS
42.1501	QUANTITATIVE PSYCHOLOGY	*045.067-018	PSYCHOMETRIST	5 5 5	TWO TO FOUR YEARS
42.1601	SOCIAL PSYCHOLOGY	*045.067-014	PSYCHOLOGIST, SOCIAL	6 6 5	FOUR TO TEN YEARS
		*045.107-034	PSYCHOLOGIST, SCHOOL	6 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 1916

SOCIOLOGISTS

SOCIOLOGISTS study human society and social behavior; they examine the groups that people form. These groups include families, tribes, communities, and governments, as well as a great variety of social, religious, business, and other organizations. They study how these groups behave and interact. They also trace their beginning and growth and try to understand the influence these groups have on people. Most SOCIOLOGISTS conduct research, do consulting work, and teach.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	054.067-010	RESEARCH WORKER, SOCIAL WELFARE	6 5 5 TWO TO FOUR YEARS
		054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
		054.107-010	CLINICAL SOCIOLOGIST	5 4 5 ONE TO TWO YEARS
05.0101	AFRICAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0102	AMERICAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0103	ASIAN STUDIES, GENERAL	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0104	EAST ASIAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0105	EASTERN EUROPEAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0107	LATIN AMERICAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0108	MIDDLE EASTERN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0109	PACIFIC AREA STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0111	SCANDANAVIAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0112	SOUTH ASIAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0113	SOUTHEAST ASIAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0114	WESTERN EUROPEAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0115	CANADIAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS
05.0201	AFRO-AMERICAN (BLACK) STUDIES	*054.067-014	SOCIOLOGIST	6 5 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
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OCCUPATION: 1916 SOCIOLOGISTS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
05.0202	AMERICAN INDIAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
05.0203	HISPANIC-AMERICAN STUDIES	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
05.0204	ISLAMIC STUDIES	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
05.0205	JEWISH STUDIES	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
13.0603	EDUCATIONAL STATISTICS AND RESEARCH	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
13.0605	ELEMENTARY AND SECONDARY RESEARCH	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
13.0606	HIGHER EDUCATION RESEARCH	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
13.0701	INTERNATIONAL AND COMPARATIVE EDUCATION	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
13.0901	SOCIAL FOUNDATIONS	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
42.0401	COMMUNITY PSYCHOLOGY	*054.107-010	CLINICAL SOCIOLOGIST	5 4 5	ONE TO TWO YEARS
42.1601	SOCIAL PSYCHOLOGY	*054.107-010	CLINICAL SOCIOLOGIST	5 4 5	ONE TO TWO YEARS
43.0104	CRIMINAL JUSTICE STUDIES	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
44.0501	PUBLIC POLICY STUDIES	*054.067-010	RESEARCH WORKER, SOCIAL WELFARE	6 5 5	TWO TO FOUR YEARS
		*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
45.0401	CRIMINOLOGY	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
45.0501	DEMOGRAPHY	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS
45.1101	SOCIOLOGY	*054.067-014	SOCIOLOGIST	6 5 5	TWO TO FOUR YEARS

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OCCUPATION: 1919

SOCIAL SCIENTISTS, N.E.C.

These people use their knowledge of the social sciences to collect information about present and past cultures and to find ways to solve social, political, or military problems. For example, some study the various human races to learn how and where they began and how their customs developed. They try to find ways to explain differences in people's languages, behaviors, and physical characteristics and why some cultures died away.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	055.067-010	ANTHROPOLOGIST	6 5 5	TWO TO FOUR YEARS
		055.067-014	ANTHROPOLOGIST, PHYSICAL	6 5 5	TWO TO FOUR YEARS
		055.067-018	ARCHEOLOGIST	6 5 5	TWO TO FOUR YEARS
		055.067-022	ETHNOLOGIST	6 5 5	TWO TO FOUR YEARS
		055.381-010	CONSERVATOR, ARTIFACTS	4 4 4	ONE TO TWO YEARS
		059.067-010	PHILOLOGIST	5 1 5	FOUR TO TEN YEARS
		059.067-014	SCIENTIFIC LINGUIST	6 5 6	FOUR TO TEN YEARS
		059.167-010	INTELLIGENCE RESEARCH SPECIALIST	6 5 5	FOUR TO TEN YEARS
		059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
		059.267-014	INTELLIGENCE SPECIALIST	4 4 4	TWO TO FOUR YEARS
05.0101	AFRICAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0102	AMERICAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0103	ASIAN STUDIES, GENERAL	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0104	EAST ASIAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0105	EASTERN EUROPEAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0106	EUROPEAN STUDIES, GENERAL	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0107	LATIN AMERICAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0108	MIDDLE EASTERN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0109	PACIFIC AREA STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0110	RUSSIAN AND SLAVIC STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0111	SCANDANAVIAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0112	SOUTH ASIAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1919 SOCIAL SCIENTISTS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
05.0113	SOUTHEAST ASIAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0114	WESTERN EUROPEAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0115	CANADIAN STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0204	ISLAMIC STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
05.0205	JEWISH STUDIES	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
13.0701	INTERNATIONAL AND COMPARATIVE EDUCATION	*055.067-022	ETHNOLOGIST	6 5 5	TWO TO FOUR YEARS
23.0601	LINGUISTICS (INCLUDES PHONETICS, SEMANTI	*059.067-010	PHILOLOGIST	5 1 5	FOUR TO TEN YEARS
		*059.067-014	SCIENTIFIC LINGUIST	6 5 6	FOUR TO TEN YEARS
45.0201	ANTHROPOLOGY	*055.067-010	ANTHROPOLOGIST	6 5 5	TWO TO FOUR YEARS
		*055.067-014	ANTHROPOLOGIST, PHYSICAL	6 5 5	TWO TO FOUR YEARS
		*055.067-022	ETHNOLOGIST	6 5 5	TWO TO FOUR YEARS
45.0301	ARCHEOLOGY	*055.067-018	ARCHEOLOGIST	6 5 5	TWO TO FOUR YEARS
		*055.381-010	CONSERVATOR, ARTIFACTS	4 4 4	ONE TO TWO YEARS
45.0302	ARCHAEOLOGICAL TECHNOLOGY	*055.067-018	ARCHEOLOGIST	6 5 5	TWO TO FOUR YEARS
		*055.381-010	CONSERVATOR, ARTIFACTS	4 4 4	ONE TO TWO YEARS
45.0901	INTERNATIONAL RELATIONS	*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
		*059.267-014	INTELLIGENCE SPECIALIST	4 4 4	TWO TO FOUR YEARS
45.1001	POLITICAL SCIENCE AND GOVERNMENT	*059.167-010	INTELLIGENCE RESEARCH SPECIALIST	6 5 5	FOUR TO TEN YEARS
		*059.267-010	INTELLIGENCE SPECIALIST	5 4 4	TWO TO FOUR YEARS
		*059.267-014	INTELLIGENCE SPECIALIST	4 4 4	TWO TO FOUR YEARS
50.0702	ART CONSERVATION	*055.381-010	CONSERVATOR, ARTIFACTS	4 4 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 1920

URBAN AND REGIONAL PLANNERS

These people develop programs to provide for the future growth and development of city, suburban, and rural communities. They study the long-range needs of a community for housing, transportation, and business sites. They then propose ways to meet those needs. They also prepare materials that show how these programs can be carried out and what they will cost.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	188.167-110	PLANNER, PROGRAM SERVICES	6 5 6	TWO TO FOUR YEARS
		199.167-014	URBAN PLANNER	5 4 5	FOUR TO TEN YEARS
04.0301	CITY, COMMUNITY, AND REGIONAL PLANNING	*188.167-110	PLANNER, PROGRAM SERVICES	6 5 6	TWO TO FOUR YEARS
		*199.167-014	URBAN PLANNER	5 4 5	FOUR TO TEN YEARS
04.0701	URBAN DESIGN	*188.167-110	PLANNER, PROGRAM SERVICES	6 5 6	TWO TO FOUR YEARS
		*199.167-014	URBAN PLANNER	5 4 5	FOUR TO TEN YEARS
04.0801	LAND USE MANAGEMENT AND RECLAMATION	*199.167-014	URBAN PLANNER	5 4 5	FOUR TO TEN YEARS
44.0501	PUBLIC POLICY STUDIES	*199.167-014	URBAN PLANNER	5 4 5	FOUR TO TEN YEARS
45.1201	URBAN STUDIES	*199.167-014	URBAN PLANNER	5 4 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2000

SOCIAL, RECREATION, AND RELIGIOUS WORKERS

Social, recreation, and religious workers plan and develop programs to meet the needs of the group or community they serve. They may investigate needs and counsel people with personal or employment problems. Others plan, promote, and conduct recreational and educational activities. Some administer the spiritual needs of individuals and groups, both in religious services and social activities.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2030

SOCIAL AND RECREATION WORKERS

Workers in these occupations counsel people in need or help people plan and enjoy recreational activities. Some work with people who have financial, family, or behavior problems. They help clients understand their problems and find ways to deal with them. Others work in such places as summer camps, parks, correctional institutions, or hospitals. They may organize sports or craft activities or help people develop recreational skills.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2032

SOCIAL WORKERS

SOCIAL WORKERS counsel and give aid to people who need help. For example, they help people who are poor or ill or who have housing, family, or behavior problems. They talk with people to understand their problems and to plan ways to help them. They plan activities and services for children, teenagers, adults, and older persons. They provide information and referral services in many areas. They advise on child care and place children in foster homes. They also help patients and families cope with illnesses.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	187.137-014	SUPERVISOR, VOLUNTEER SERVICES	4 3 4	TWO TO FOUR YEARS
		189.267-010	FIELD REPRESENTATIVE	5 4 5	FOUR TO TEN YEARS
		195.107-010	CASEWORKER	5 4 5	TWO TO FOUR YEARS
		195.107-014	CASEWORKER, CHILD WELFARE	5 3 5	TWO TO FOUR YEARS
		195.107-018	CASEWORKER, FAMILY	5 4 5	TWO TO FOUR YEARS
		195.107-022	SOCIAL GROUP WORKER	5 3 5	FOUR TO TEN YEARS
		195.107-026	SOCIAL WORKER, DELINQUENCY PREVENTI	5 3 5	TWO TO FOUR YEARS
		195.107-030	SOCIAL WORKER, MEDICAL	5 3 5	TWO TO FOUR YEARS
		195.107-034	SOCIAL WORKER, PSYCHIATRIC	5 3 5	TWO TO FOUR YEARS
		195.107-038	SOCIAL WORKER, SCHOOL	5 3 5	TWO TO FOUR YEARS
		195.107-042	CORRECTIONAL-TREATMENT SPECIALIST	5 3 5	TWO TO FOUR YEARS
		195.107-046	PROBATION-AND-PAROLE OFFICER	5 3 5	TWO TO FOUR YEARS
		195.137-010	CASEWORK SUPERVISOR	5 3 5	TWO TO FOUR YEARS
		195.164-010	GROUP WORKER	5 4 5	TWO TO FOUR YEARS
		195.167-010	COMMUNITY ORGANIZATION WORKER	5 4 5	TWO TO FOUR YEARS
		195.167-014	COMMUNITY-RELATIONS-AND-SERVICES AD	5 3 5	TWO TO FOUR YEARS
		195.227-010	PROGRAM AIDE, GROUP WORK	5 3 4	ONE TO TWO YEARS
		195.267-018	PATIENT-RESOURCES-AND-REIMBURSEMENT	5 3 5	TWO TO FOUR YEARS
		195.367-018	COMMUNITY WORKER	5 4 4	ONE TO TWO YEARS
17.0401	ALCOHOL/DRUG ABUSE SPECIALTY	195.164-010	GROUP WORKER	5 4 5	TWO TO FOUR YEARS
		195.227-010	PROGRAM AIDE, GROUP WORK	5 3 4	ONE TO TWO YEARS
		195.267-014	HUMAN RELATIONS OR DRUG AND ALCOHOL	3 3 3	ONE TO TWO YEARS
		195.367-010	CASE AIDE	5 3 5	ONE TO TWO YEARS
		195.367-034	SOCIAL-SERVICES AIDE	5 3 5	ONE TO TWO YEARS
17.0405	MENTAL HEALTH/HUMAN SERVICES ASSISTING	195.227-010	PROGRAM AIDE, GROUP WORK	5 3 4	ONE TO TWO YEARS
		195.267-014	HUMAN RELATIONS OR DRUG AND ALCOHOL	3 3 3	ONE TO TWO YEARS
		195.367-010	CASE AIDE	5 3 5	ONE TO TWO YEARS
17.0408	THERAPEUTIC CHILD CARE WORK	195.367-034	SOCIAL-SERVICES AIDE	5 3 5	ONE TO TWO YEARS
19.0301	FAMILY AND COMMUNITY SERVICES	*195.107-010	CASEWORKER	5 4 5	TWO TO FOUR YEARS
		*195.107-014	CASEWORKER, CHILD WELFARE	5 3 5	TWO TO FOUR YEARS

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OCCUPATION: 2032 SOCIAL WORKERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*195.107-018	CASEWORKER, FAMILY	5 4 5	TWO TO FOUR YEARS
		*195.367-018	COMMUNITY WORKER	5 4 4	ONE TO TWO YEARS
19.0603	HOUSING	*195.167-014	COMMUNITY-RELATIONS-AND-SERVICES AD	5 3 5	TWO TO FOUR YEARS
19.0703	FAMILY COUNSELING	*195.107-010	CASEWORKER	5 4 5	TWO TO FOUR YEARS
		*195.107-014	CASEWORKER, CHILD WELFARE	5 3 5	TWO TO FOUR YEARS
		*195.107-018	CASEWORKER, FAMILY	5 4 5	TWO TO FOUR YEARS
		*195.107-026	SOCIAL WORKER, DELINQUENCY PREVENTI	5 3 5	TWO TO FOUR YEARS
		*195.107-038	SOCIAL WORKER, SCHOOL	5 3 5	TWO TO FOUR YEARS
		*195.137-010	CASEWORK SUPERVISOR	5 3 5	TWO TO FOUR YEARS
19.0704	FAMILY RELATIONS	*195.107-010	CASEWORKER	5 4 5	TWO TO FOUR YEARS
		*195.107-014	CASEWORKER, CHILD WELFARE	5 3 5	TWO TO FOUR YEARS
		*195.107-018	CASEWORKER, FAMILY	5 4 5	TWO TO FOUR YEARS
		*195.107-026	SOCIAL WORKER, DELINQUENCY PREVENTI	5 3 5	TWO TO FOUR YEARS
		*195.107-038	SOCIAL WORKER, SCHOOL	5 3 5	TWO TO FOUR YEARS
		*195.137-010	CASEWORK SUPERVISOR	5 3 5	TWO TO FOUR YEARS
19.0705	GERONTOLOGICAL SERVICES	*195.367-018	COMMUNITY WORKER	5 4 4	ONE TO TWO YEARS
20.0602	COMPANION TO THE AGED	195.367-034	SOCIAL-SERVICES AIDE	5 3 5	ONE TO TWO YEARS
20.0603	CONSUMER AIDE/ASSISTING	195.367-022	FOOD-MANAGEMENT AIDE	3 2 3	30 TO 90 DAYS
20.0606	HOMEMAKER'S AIDE	195.367-014	MANAGEMENT AIDE	4 3 4	SIX TO 12 MONTHS
		195.367-022	FOOD-MANAGEMENT AIDE	3 2 3	30 TO 90 DAYS
		195.367-034	SOCIAL-SERVICES AIDE	5 3 5	ONE TO TWO YEARS
42.0201	CLINICAL PSYCHOLOGY	*195.107-034	SOCIAL WORKER, PSYCHIATRIC	5 3 5	TWO TO FOUR YEARS
42.0401	COMMUNITY PSYCHOLOGY	*195.107-034	SOCIAL WORKER, PSYCHIATRIC	5 3 5	TWO TO FOUR YEARS
		*195.167-010	COMMUNITY ORGANIZATION WORKER	5 4 5	TWO TO FOUR YEARS
42.1001	PERSONALITY PSYCHOLOGY	*195.107-034	SOCIAL WORKER, PSYCHIATRIC	5 3 5	TWO TO FOUR YEARS
42.1601	SOCIAL PSYCHOLOGY	*195.107-026	SOCIAL WORKER, DELINQUENCY PREVENTI	5 3 5	TWO TO FOUR YEARS
		*195.107-034	SOCIAL WORKER, PSYCHIATRIC	5 3 5	TWO TO FOUR YEARS
43.0102	CORRECTIONS	*195.107-042	CORRECTIONAL-TREATMENT SPECIALIST	5 3 5	TWO TO FOUR YEARS
		*195.107-046	PROBATION-AND-PAROLE OFFICER	5 3 5	TWO TO FOUR YEARS
		*195.167-030	PAROLE OFFICER	5 3 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2032 SOCIAL WORKERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		*195.167-034	PROBATION OFFICER	5	3	5	TWO TO FOUR YEARS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	195.167-030	PAROLE OFFICER	5	3	5	TWO TO FOUR YEARS
		195.167-034	PROBATION OFFICER	5	3	5	TWO TO FOUR YEARS
43.0107	LAW ENFORCEMENT	195.167-030	PAROLE OFFICER	5	3	5	TWO TO FOUR YEARS
		195.167-034	PROBATION OFFICER	5	3	5	TWO TO FOUR YEARS
44.0201	COMMUNITY SERVICES	*195.107-010	CASEWORKER	5	4	5	TWO TO FOUR YEARS
		*195.107-014	CASEWORKER, CHILD WELFARE	5	3	5	TWO TO FOUR YEARS
		*195.107-018	CASEWORKER, FAMILY	5	4	5	TWO TO FOUR YEARS
		*195.107-022	SOCIAL GROUP WORKER	5	3	5	FOUR TO TEN YEARS
		*195.107-026	SOCIAL WORKER, DELINQUENCY PREVENTI	5	3	5	TWO TO FOUR YEARS
		*195.107-038	SOCIAL WORKER, SCHOOL	5	3	5	TWO TO FOUR YEARS
		*195.137-010	CASEWORK SUPERVISOR	5	3	5	TWO TO FOUR YEARS
		*195.164-010	GROUP WORKER	5	4	5	TWO TO FOUR YEARS
		*195.167-010	COMMUNITY ORGANIZATION WORKER	5	4	5	TWO TO FOUR YEARS
		*195.167-014	COMMUNITY-RELATIONS-AND-SERVICES AD	5	3	5	TWO TO FOUR YEARS
		*195.367-018	COMMUNITY WORKER	5	4	4	ONE TO TWO YEARS
		*195.367-022	FOOD-MANAGEMENT AIDE	3	2	3	30 TO 90 DAYS
44.0701	SOCIAL WORK, GENERAL	*195.107-010	CASEWORKER	5	4	5	TWO TO FOUR YEARS
		*195.107-014	CASEWORKER, CHILD WELFARE	5	3	5	TWO TO FOUR YEARS
		*195.107-018	CASEWORKER, FAMILY	5	4	5	TWO TO FOUR YEARS
		*195.107-022	SOCIAL GROUP WORKER	5	3	5	FOUR TO TEN YEARS
		*195.107-026	SOCIAL WORKER, DELINQUENCY PREVENTI	5	3	5	TWO TO FOUR YEARS
		*195.107-038	SOCIAL WORKER, SCHOOL	5	3	5	TWO TO FOUR YEARS
		*195.137-010	CASEWORK SUPERVISOR	5	3	5	TWO TO FOUR YEARS
		*195.164-010	GROUP WORKER	5	4	5	TWO TO FOUR YEARS
		*195.167-010	COMMUNITY ORGANIZATION WORKER	5	4	5	TWO TO FOUR YEARS
		*195.267-014	HUMAN RELATIONS OR DRUG AND ALCOHOL	3	3	3	ONE TO TWO YEARS
44.0702	MEDICAL SOCIAL WORK	*195.107-030	SOCIAL WORKER, MEDICAL	5	3	5	TWO TO FOUR YEARS
		*195.107-034	SOCIAL WORKER, PSYCHIATRIC	5	3	5	TWO TO FOUR YEARS

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OCCUPATION: 2033

RECREATION WORKERS

These people plan, organize, and direct activities designed to help people enjoy their free time. They work in such places as summer camps, parks, playgrounds, or recreation centers. They may work with children or adults or with special groups, such as prisoners, hospital patients, soldiers, or the aged. Some plan and direct activities, such as hikes, cookouts, and camp fires, or teach people how to swim, ride horseback, sail, or play games. Others organize activities such as arts and crafts, sports, music, dramatics, and dancing.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	195.167-026	DIRECTOR, RECREATION CENTER	5 3 5	TWO TO FOUR YEARS
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	195.167-026	DIRECTOR, RECREATION CENTER	5 3 5	TWO TO FOUR YEARS
20.0202	CHILD CARE AIDE/ASSISTING	159.124-010	COUNSELOR, CAMP	4 2 4	ONE TO TWO YEARS
		195.227-014	RECREATION LEADER	5 3 5	TWO TO FOUR YEARS
44.0201	COMMUNITY SERVICES	*195.167-026	DIRECTOR, RECREATION CENTER	5 3 5	TWO TO FOUR YEARS
		*195.227-014	RECREATION LEADER	5 3 5	TWO TO FOUR YEARS

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OCCUPATION: 2040

RELIGIOUS WORKERS

Religious workers include clergy and other workers who provide help and services to members of a religious community or group. Clergy interpret doctrine, conduct services, and administer sacraments. Other religious workers perform social services, help organize and conduct activities, and administer educational programs provided by the religious group.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2042

CLERGY

CLERGY serve the spiritual and religious needs of people. CLERGY include MINISTERS, RABBIS, and PRIESTS in the Protestant, Jewish, Catholic, other faiths. Their specific duties depend upon their faiths. However, most CLERGY conduct religious services and deliver sermons, conduct weddings and funerals, visit the sick, help the poor, comfort the bereaved, counsel those who need guidance, and involve themselves in community affairs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS
38.0201	RELIGION	*120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS
39.0101	BIBLICAL LANGUAGES	*120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS
39.0201	BIBLE STUDIES	*120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS
39.0301	MISSIONARY STUDIES	*120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS
39.0401	RELIGIOUS EDUCATION	*120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS
39.0601	THEOLOGICAL STUDIES	*120.007-010	CLERGY MEMBER	6 4 6	FOUR TO TEN YEARS

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OCCUPATION: 2049

RELIGIOUS WORKERS, N.E.C.

These people provide services to members of religious groups. Their job duties vary. Some call on families to give support and nonmedical care to church members who are ill. Some plan and direct activities to meet the religious needs of college students. Some direct church school programs for youths. Some perform special religious rites. Some counsel clients who have had disturbing experiences.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	129.027-010	CANTOR	5 1 4	FOUR TO TEN YEARS
		129.107-010	CHRISTIAN SCIENCE NURSE	4 3 4	TWO TO FOUR YEARS
		129.107-014	CHRISTIAN SCIENCE PRACTITIONER	5 2 3	ONE TO TWO YEARS
		129.107-018	DIRECTOR OF RELIGIOUS ACTIVITIES	5 3 5	FOUR TO TEN YEARS
		129.107-022	DIRECTOR, RELIGIOUS EDUCATION	5 3 5	FOUR TO TEN YEARS
		129.271-010	MOHEL	4 2 4	ONE TO TWO YEARS
		199.207-010	DIANETIC COUNSELOR	5 3 4	ONE TO TWO YEARS
38.0201	RELIGION	*129.107-018	DIRECTOR OF RELIGIOUS ACTIVITIES	5 3 5	FOUR TO TEN YEARS
		*129.107-022	DIRECTOR, RELIGIOUS EDUCATION	5 3 5	FOUR TO TEN YEARS
39.0401	RELIGIOUS EDUCATION	*129.107-018	DIRECTOR OF RELIGIOUS ACTIVITIES	5 3 5	FOUR TO TEN YEARS
		*129.107-022	DIRECTOR, RELIGIOUS EDUCATION	5 3 5	FOUR TO TEN YEARS
39.0501	RELIGIOUS MUSIC	*129.027-010	CANTOR	5 1 4	FOUR TO TEN YEARS

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OCCUPATION: 2100

LAWYERS AND JUDGES

Lawyers and judges study, interpret, and decide legal questions. Lawyers study the law, examine evidence and witnesses, present cases in court, and draft legal documents. Judges study the law, interpret the law, and make legal decisions in court after hearing lawyers' arguments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2110

LAWYERS

LAWYERS advise individuals and businesses on legal matters. They consult with clients to determine the details of problems, advise them of the law, and suggest action that might be taken. They also study and interpret laws, draft legal papers, and represent clients in courts of law. Many LAWYERS specialize in a certain branch of law. Some help write laws and establish ways to enforce them. A few teach or hold management positions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	110.107-010	LAWYER	6	4	6	FOUR TO TEN YEARS
		110.107-014	LAWYER, CRIMINAL	6	4	6	FOUR TO TEN YEARS
		110.117-010	DISTRICT ATTORNEY	6	4	6	FOUR TO TEN YEARS
		110.117-014	INSURANCE ATTORNEY	6	4	6	FOUR TO TEN YEARS
		110.117-018	LAWYER, ADMIRALTY	6	4	6	FOUR TO TEN YEARS
		110.117-022	LAWYER, CORPORATION	6	4	6	FOUR TO TEN YEARS
		110.117-026	LAWYER, PATENT	6	4	6	FOUR TO TEN YEARS
		110.117-030	LAWYER, PROBATE	6	4	6	FOUR TO TEN YEARS
		110.117-034	LAWYER, REAL ESTATE	6	4	6	FOUR TO TEN YEARS
		110.117-038	TAX ATTORNEY	6	4	6	FOUR TO TEN YEARS
		110.117-042	TITLE ATTORNEY	6	4	6	FOUR TO TEN YEARS
		110.167-010	BAR EXAMINER	6	4	6	FOUR TO TEN YEARS
22.0101	LAW	*110.107-010	LAWYER	6	4	6	FOUR TO TEN YEARS
		*110.107-014	LAWYER, CRIMINAL	6	4	6	FOUR TO TEN YEARS
		*110.117-010	DISTRICT ATTORNEY	6	4	6	FOUR TO TEN YEARS
		*110.117-014	INSURANCE ATTORNEY	6	4	6	FOUR TO TEN YEARS
		*110.117-018	LAWYER, ADMIRALTY	6	4	6	FOUR TO TEN YEARS
		*110.117-022	LAWYER, CORPORATION	6	4	6	FOUR TO TEN YEARS
		*110.117-026	LAWYER, PATENT	6	4	6	FOUR TO TEN YEARS
		*110.117-030	LAWYER, PROBATE	6	4	6	FOUR TO TEN YEARS
		*110.117-034	LAWYER, REAL ESTATE	6	4	6	FOUR TO TEN YEARS
		*110.117-038	TAX ATTORNEY	6	4	6	FOUR TO TEN YEARS
		*110.117-042	TITLE ATTORNEY	6	4	6	FOUR TO TEN YEARS
		*110.167-010	BAR EXAMINER	6	4	6	FOUR TO TEN YEARS

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OCCUPATION: 2120

JUDGES

Judges preside over courts of law and hold official hearings to settle legal disputes. They listen to cases being presented, examine evidence, advise the lawyers and juries, and set fines or sentences. In some cases, they decide verdicts. They may also perform marriage ceremonies and carry out legal research. Also included in this group are officials, such as HEARING EXAMINERS AND ARBITRATORS, who do not preside over courts, but who do render decisions which have standing in courts of law.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	111.107-010	JUDGE	6 4 6	OVER 10 YEARS
		111.107-014	MAGISTRATE	6 4 6	OVER 10 YEARS
		119.107-010	HEARING OFFICER	6 3 6	OVER 10 YEARS
		119.117-010	APPEALS REVIEWER, VETERAN	6 5 5	OVER 10 YEARS
		119.167-010	ADJUDICATOR	5 4 5	TWO TO FOUR YEARS
		119.267-014	APPEALS REFEREE	6 3 6	FOUR TO TEN YEARS
		169.267-010	CLAIMS ADJUDICATOR	5 4 4	TWO TO FOUR YEARS
22.0101	LAW	*111.107-010	JUDGE	6 4 6	OVER 10 YEARS
		*111.107-014	MAGISTRATE	6 4 6	OVER 10 YEARS
		*119.107-010	HEARING OFFICER	6 3 6	OVER 10 YEARS

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OCCUPATION: 2199

TEACHERS, LIBRARIANS, AND COUNSELORS

These workers are concerned with educational information. They may provide instruction at all levels to people with many different educational needs. They may teach academic or vocational subjects. They may collect and catalog information in the form of books, magazines, and artifacts for study or reference use. Other workers may help people determine educational or vocational goals and help them develop plans to meet those goals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2200

TEACHERS COLLEGE, UNIVERSITY, AND OTHER POST SECONDARY INSTITUTIONS

These people conduct classes for students at a college or university. They may teach one or more subjects within a certain area. They prepare and give lectures and may conduct seminars or lab sessions. They lead class discussions and prepare, give, and grade exams. They may direct research programs, advise students, and work with committees to plan and revise courses and set degree requirements. They may do research and publish their findings in books or journals. Some act as heads of departments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	090.167-010	DEPARTMENT HEAD, COLLEGE OR UNIVERS	6 5 5	FOUR TO TEN YEARS
		090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
13.0301	CURRICULUM AND INSTRUCTION	*090.167-010	DEPARTMENT HEAD, COLLEGE OR UNIVERS	6 5 5	FOUR TO TEN YEARS
13.0404	EDUCATIONAL SUPERVISION	*090.167-010	DEPARTMENT HEAD, COLLEGE OR UNIVERS	6 5 5	FOUR TO TEN YEARS
13.0406	HIGHER EDUCATION ADMINISTRATION	*090.167-010	DEPARTMENT HEAD, COLLEGE OR UNIVERS	6 5 5	FOUR TO TEN YEARS
13.0407	COMMUNITY COLLEGE EDUCATION ADMINISTRATI	*090.167-010	DEPARTMENT HEAD, COLLEGE OR UNIVERS	6 5 5	FOUR TO TEN YEARS
13.0701	INTERNATIONAL AND COMPARATIVE EDUCATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
13.0901	SOCIAL FOUNDATIONS	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
13.1307	HEALTH EDUCATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
13.1310	MARKETING AND DISTRIBUTIVE EDUCATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
13.1319	TECHNICAL EDUCATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0101	FOREIGN LANGUAGES, MULTIPLE EMPHASIS	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0201	AFRICAN (NON-SEMITIC) LANGUAGES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0301	CHINESE	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0302	JAPANESE	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0402	RUSSIAN	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0403	SLAVIC LANGUAGES (OTHER THAN RUSSIAN)	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0501	GERMAN	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2200 TEACHERS; COLLEGE, UNIVERSITY AND OTHER POSTSECONDARY (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
16.0502	SCANDINAVIAN LANGUAGES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0601	GREEK (CLASSICAL)	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0703	INDIC LANGUAGES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0901	FRENCH	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0902	ITALIAN	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0903	LATIN	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0904	PORTUGUESE	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.0905	SPANISH	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.1001	NATIVE AMERICAN LANGUAGES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.1101	ARABIC	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
16.1102	HEBREW	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0101	ENGLISH, GENERAL	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0201	CLASSICS	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0301	COMPARATIVE LITERATURE	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0501	CREATIVE WRITING	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0601	LINGUISTICS (INCLUDES PHONETICS, SEMANTI	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0701	LITERATURE, AMERICAN	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.0801	LITERATURE, ENGLISH	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.1001	SPEECH, DEBATE, AND FORENSICS	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
23.1101	TECHNICAL AND BUSINESS WRITING	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS
24.0101	LIBERAL ARTS AND SCIENCES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2200 TEACHERS; COLLEGE, UNIVERSITY AND OTHER POSTSECONDARY (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
38.0101	PHILOSOPHY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
39.0101	BIBLICAL LANGUAGES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
39.0201	BIBLE STUDIES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
39.0301	MISSIONARY STUDIES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
39.0401	RELIGIOUS EDUCATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
39.0601	THEOLOGICAL STUDIES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0201	ANTHROPOLOGY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0301	ARCHEOLOGY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0302	ARCHAEOLOGICAL TECHNOLOGY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0401	CRIMINOLOGY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0501	DEMOGRAPHY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0601	ECONOMICS	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0701	GEOGRAPHY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0801	HISTORY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.0901	INTERNATIONAL RELATIONS	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.1001	POLITICAL SCIENCE AND GOVERNMENT	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.1101	SOCIOLOGY	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
45.1201	URBAN STUDIES	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
50.0703	ART HISTORY AND APPRECIATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
50.0902	MUSIC HISTORY AND APPRECIATION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS
50.0904	MUSIC THEORY AND COMPOSITION	*090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSI	6 5 5 FOUR TO TEN YEARS

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OCCUPATION: 2216

00.0000 NO CIP ASSIGNED	099.227-038 TEACHER	5 4 5 TWO TO FOUR YEARS
13.1302 ART EDUCATION	*099.227-038 TEACHER	5 4 5 TWO TO FOUR YEARS
50.0703 ART HISTORY AND APPRECIATION	*099.227-038 TEACHER	5 4 5 TWO TO FOUR YEARS

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OCCUPATION: 2232

HEALTH SPECIALITIES TEACHERS N.E.C.

These people teach courses in health specialties. They may specialize in teaching anatomy, dentistry, hygiene, lab technology, nursing, pharmacy, therapy, or veterinary medicine. They prepare and give lectures, conduct and supervise lab work, and direct seminars. They prepare and give exams, evaluate student progress, and keep student records. They also help plan courses of study, teaching schedules, and course outlines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	075.121-010	NURSE, INSTRUCTOR	5 4 5 TWO TO FOUR YEARS
13.1307	HEALTH EDUCATION	*075.121-010	NURSE, INSTRUCTOR	5 4 5 TWO TO FOUR YEARS
13.1313	NUTRITIONAL EDUCATION	*075.121-010	NURSE, INSTRUCTOR	5 4 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2233

00.0000 NO CIP ASS'GNED	090.222-010 INSTRUCTOR, BUSINESS EDUCATION	5 4 5 FOUR TO TEN YEARS
13.1303 BUSINESS EDUCATION	*090.222-010 INSTRUCTOR, BUSINESS EDUCATION	5 4 5 FOUR TO TEN YEARS
13.1310 MARKETING AND DISTRIBUTIVE EDUCATION	*090.222-010 INSTRUCTOR, BUSINESS EDUCATION	5 4 5 FOUR TO TEN YEARS

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OCCUPATION: 2246

TRADE AND INDUSTRIAL TEACHERS

These people teach and instruct students to prepare them for employment. Some teach courses in a technical, vocational, or industrial school. Others teach, instruct, and train workers in business, industry, or government. They instruct students in work methods and procedures. They also teach courses in areas related to the particular type of work the students wish to enter. They prepare courses, give tests, and evaluate student performance.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2249

TEACHERS: POST-SECONDARY, N.E.C.

These workers teach military and police science. They may teach in Reserve Officer Training Corps programs, covering such subjects as weapons deployment, naval science, defense concepts, and aerospace science. Others teach probationary and experienced policemen, covering such areas as investigative methods, self-defense, community relations, and care of firearms. They evaluate test results and student performance.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	099.227-022	INSTRUCTOR, MILITARY SCIENCE	5 3 5	OVER 10 YEARS
13.1203	JUNIOR HIGH/MIDDLE SCHOOL EDUCATION	*099.227-022	INSTRUCTOR, MILITARY SCIENCE	5 3 5	OVER 10 YEARS
13.1205	SECONDARY EDUCATION	*099.227-022	INSTRUCTOR, MILITARY SCIENCE	5 3 5	OVER 10 YEARS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	375.227-010	POLICE-ACADEMY INSTRUCTOR	4 2 3	TWO TO FOUR YEARS
43.0107	LAW ENFORCEMENT	375.227-010	POLICE-ACADEMY INSTRUCTOR	4 2 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2300

TEACHERS, EXCEPT POST-SECONDARY INSTITUTION

These workers teach academic and job skills to children and adults. They may teach basic subjects at the elementary level or teach a specific subject such as English, welding, or business at the secondary level. Others teach children or adults with special needs, such as physical or mental handicaps. Others teach job-related skills to workers or out-of-school youths. Some coordinate educational programs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2310

PREKINDERGARTEN AND KINDERGARTEN TEACHERS

People in these jobs teach preschool and kindergarten aged children. They provide learning activities to help these children develop the physical, mental and social skills they will need when they enter school. They conduct lessons in social skills through games and group projects. They also teach simple principles of science, math, health and language. Besides teaching, they watch children for signs of problems, illness and progress. They meet with parents to discuss their children's problems and progress.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	092.227-014	TEACHER, KINDERGARTEN	5	2	4	TWO TO FOUR YEARS
13.1204	PRE-ELEMENTARY EDUCATION	*092.227-014	TEACHER, KINDERGARTEN	5	2	4	TWO TO FOUR YEARS
		*092.227-018	TEACHER, PRESCHOOL	4	2	3	TWO TO FOUR YEARS
20.0203	CHILD CARE MANAGEMENT	092.227-018	TEACHER, PRESCHOOL	4	2	3	TWO TO FOUR YEARS
39.0201	BIBLE STUDIES	*092.227-014	TEACHER, KINDERGARTEN	5	2	4	TWO TO FOUR YEARS
		*092.227-018	TEACHER, PRESCHOOL	4	2	3	TWO TO FOUR YEARS
39.0301	MISSIONARY STUDIES	*092.227-014	TEACHER, KINDERGARTEN	5	2	4	TWO TO FOUR YEARS
		*092.227-018	TEACHER, PRESCHOOL	4	2	3	TWO TO FOUR YEARS
39.0401	RELIGIOUS EDUCATION	*092.227-014	TEACHER, KINDERGARTEN	5	2	4	TWO TO FOUR YEARS
		*092.227-018	TEACHER, PRESCHOOL	4	2	3	TWO TO FOUR YEARS
39.0601	THEOLOGICAL STUDIES	*092.227-014	TEACHER, KINDERGARTEN	5	2	4	TWO TO FOUR YEARS
		*092.227-018	TEACHER, PRESCHOOL	4	2	3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2320

ELEMENTARY SCHOOL TEACHERS

These TEACHERS work in grade schools. They teach the basic concepts of math, language, science, social studies, and other subjects. They try to provide a sound background for studies in the higher grades. They also try to teach good study habits and respect for learning. They also arrange trips, speakers, and class projects. Some teach special subjects such as music, art, or gym skills. They also attend school meetings, plan courses, grade papers, and supervise after-school activities.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.0201	BILINGUAL/CROSSCULTURAL EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1002	EDUCATION OF THE CULTURALLY DISADVANTAGE	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1003	EDUCATION OF THE DEAF AND HEARING IMPAIR	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1004	EDUCATION OF THE GIFTED AND TALENTED	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1005	EDUCATION OF THE EMOTIONALLY HANDICAPPED	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1006	EDUCATION OF THE MENTALLY HANDICAPPED	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1008	EDUCATION OF THE PHYSICALLY HANDICAPPED	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1009	EDUCATION OF THE VISUALLY HANDICAPPED	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1010	REMEDIAL EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1202	ELEMENTARY EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1302	ART EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1305	ENGLISH EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1306	FOREIGN LANGUAGES EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1307	HEALTH EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1311	MATHEMATICS EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
13.1312	MUSIC EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS

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OCCUPATION: 2320 ELEMENTARY SCHOOL TEACHERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
13.1313	NUTRITIONAL EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
13.1315	READING EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
13.1316	SCIENCE EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
13.1317	SOCIAL SCIENCE EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
13.1318	SOCIAL STUDIES EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
13.1401	TEACHING ENGLISH AS A SECOND LANGUAGE/FO	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0101	FOREIGN LANGUAGES, MULTIPLE EMPHASIS	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0201	AFRICAN (NON-SEMITIC) LANGUAGES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0301	CHINESE	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0302	JAPANESE	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0402	RUSSIAN	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0403	SLAVIC LANGUAGES (OTHER THAN RUSSIAN)	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0501	GERMAN	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0502	SCANDINAVIAN LANGUAGES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0601	GREEK (CLASSICAL)	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0703	INDIC LANGUAGES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0901	FRENCH	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0902	ITALIAN	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0903	LATIN	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0904	PORTUGUESE	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS
16.0905	SPANISH	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5	TWO TO FOUR YEARS

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OCCUPATION: 2320 ELEMENTARY SCHOOL TEACHERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
16.1001	NATIVE AMERICAN LANGUAGES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
16.1101	ARABIC	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
16.1102	HEBREW	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0101	ENGLISH, GENERAL	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0201	CLASSICS	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0301	COMPARATIVE LITERATURE	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0501	CREATIVE WRITING	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0601	LINGUISTICS (INCLUDES PHONETICS, SEMANTI	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0701	LITERATURE, AMERICAN	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.0801	LITERATURE, ENGLISH	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.1001	SPEECH, DEBATE, AND FORENSICS	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.1101	TECHNICAL AND BUSINESS WRITING	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
23.1201	ENGLISH AS A SECOND LANGUAGE	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
24.0101	LIBERAL ARTS AND SCIENCES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
39.0201	BIBLE STUDIES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
39.0301	MISSIONARY STUDIES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
39.0401	RELIGIOUS EDUCATION	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS
39.0601	THEOLOGICAL STUDIES	*092.227-010	TEACHER, ELEMENTARY SCHOOL	5 3 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2330

SECONDARY SCHOOL TEACHERS

These TEACHERS work in middle, junior high, and high schools. They instruct students in specific subjects such as English, math, social studies, or science. Some teach courses to prepare students for specific jobs. They often teach a number of courses within a subject area. They develop teaching plans, prepare and give exams, and arrange class projects. They often use films, slides, computer terminals, and other equipment in conducting classes. They also supervise study halls and homerooms and attend school meetings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	091.221-010	TEACHER, INDUSTRIAL ARTS	5 4 3 TWO TO FOUR YEARS
		091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.0201	BILINGUAL/CROSSCULTURAL EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1002	EDUCATION OF THE CULTURALLY DISADVANTAGE	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1003	EDUCATION OF THE DEAF AND HEARING IMPAIR	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1004	EDUCATION OF THE GIFTED AND TALENTED	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1005	EDUCATION OF THE EMOTIONALLY HANDICAPPED	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1006	EDUCATION OF THE MENTALLY HANDICAPPED	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1008	EDUCATION OF THE PHYSICALLY HANDICAPPED	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1009	EDUCATION OF THE VISUALLY HANDICAPPED	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1010	REMEDIAL EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1203	JUNIOR HIGH/MIDDLE SCHOOL EDUCATION	*091.221-010	TEACHER, INDUSTRIAL ARTS	5 4 3 TWO TO FOUR YEARS
		*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1205	SECONDARY EDUCATION	*091.221-010	TEACHER, INDUSTRIAL ARTS	5 4 3 TWO TO FOUR YEARS
		*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1302	ART EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1303	BUSINESS EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
13.1305	ENGLISH EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2330 SECONDARY SCHOOL TEACHERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
13.1306	FOREIGN LANGUAGES EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1307	HEALTH EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1308	HOME ECONOMICS EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1309	INDUSTRIAL ARTS EDUCATION	*091.221-010	TEACHER, INDUSTRIAL ARTS	5 4 3	TWO TO FOUR YEARS
		*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1310	MARKETING AND DISTRIBUTIVE EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1311	MATHEMATICS EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1312	MUSIC EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1313	NUTRITIONAL EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1315	READING EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1316	SCIENCE EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1317	SOCIAL SCIENCE EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1318	SOCIAL STUDIES EDUCATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1319	TECHNICAL EDUCATION	*091.221-010	TEACHER, INDUSTRIAL ARTS	5 4 3	TWO TO FOUR YEARS
		*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1320	TRADE AND INDUSTRIAL EDUCATION	*091.221-010	TEACHER, INDUSTRIAL ARTS	5 4 3	TWO TO FOUR YEARS
		*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
13.1401	TEACHING ENGLISH AS A SECOND LANGUAGE/FO	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0101	FOREIGN LANGUAGES, MULTIPLE EMPHASIS	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0201	AFRICAN (NON-SEMITIC) LANGUAGES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0301	CHINESE	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0302	JAPANESE	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0402	RUSSIAN	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
16.0403	SLAVIC LANGUAGES (OTHER THAN RUSSIAN)	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0501	GERMAN	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0502	SCANDINAVIAN LANGUAGES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0601	GREEK (CLASSICAL)	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0703	INDIC LANGUAGES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0901	FRENCH	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0902	ITALIAN	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0903	LATIN	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0904	PORTUGUESE	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.0905	SPANISH	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.1001	NATIVE AMERICAN LANGUAGES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.1101	ARABIC	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
16.1102	HEBREW	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0101	ENGLISH, GENERAL	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0201	CLASSICS	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0301	COMPARATIVE LITERATURE	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0501	CREATIVE WRITING	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0601	LINGUISTICS (INCLUDES PHONETICS, SEMANTI	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0701	LITERATURE, AMERICAN	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.0801	LITERATURE, ENGLISH	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS
23.1001	SPEECH, DEBATE, AND FORENSICS	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 2330 SECONDARY SCHOOL TEACHERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
23.1101	TECHNICAL AND BUSINESS WRITING	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
23.1201	ENGLISH AS A SECOND LANGUAGE	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
24.0101	LIBERAL ARTS AND SCIENCES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
39.0101	BIBLICAL LANGUAGES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
39.0201	BIBLE STUDIES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
39.0301	MISSIONARY STUDIES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
39.0601	THEOLOGICAL STUDIES	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
50.0703	ART HISTORY AND APPRECIATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
50.0902	MUSIC HISTORY AND APPRECIATION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS
50.0904	MUSIC THEORY AND COMPOSITION	*091.227-010	TEACHER, SECONDARY SCHOOL	5 4 5 TWO TO FOUR YEARS

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OCCUPATION: 2350

TEACHERS: SPECIAL EDUCATION

These people teach academic, social, and other skills to children and adults who have special problems. The students may have physical or mental handicaps. They may teach in a classroom, or special building, or some travel to students' homes to teach. They may use special methods or tools, such as sign language or Braille writers to teach. They plan courses, prepare lessons, grade papers, and keep records. An important part of their work involves encouraging and advising students and their families.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	094.224-010	TEACHER, DEAF	5 4 5	TWO TO FOUR YEARS
		094.227-010	EDUCATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		094.227-014	TEACHER, BLIND	5 4 5	TWO TO FOUR YEARS
		094.227-018	TEACHER, HANDICAPPED STUDENTS	5 4 5	TWO TO FOUR YEARS
		094.227-022	TEACHER, MENTALLY RETARDED	5 4 5	TWO TO FOUR YEARS
13.1003	EDUCATION OF THE DEAF AND HEARING IMPAIR	*094.224-010	TEACHER, DEAF	5 4 5	TWO TO FOUR YEARS
13.1005	EDUCATION OF THE EMOTIONALLY HANDICAPPED	*094.227-010	EDUCATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
13.1006	EDUCATION OF THE MENTALLY HANDICAPPED	*094.227-010	EDUCATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		*094.227-022	TEACHER, MENTALLY RETARDED	5 4 5	TWO TO FOUR YEARS
13.1007	EDUCATION OF THE MULTIPLE HANDICAPPED	*094.224-010	TEACHER, DEAF	5 4 5	TWO TO FOUR YEARS
		*094.227-010	EDUCATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		*094.227-014	TEACHER, BLIND	5 4 5	TWO TO FOUR YEARS
		*094.227-018	TEACHER, HANDICAPPED STUDENTS	5 4 5	TWO TO FOUR YEARS
		*094.227-022	TEACHER, MENTALLY RETARDED	5 4 5	TWO TO FOUR YEARS
13.1008	EDUCATION OF THE PHYSICALLY HANDICAPPED	*094.227-018	TEACHER, HANDICAPPED STUDENTS	5 4 5	TWO TO FOUR YEARS
13.1009	EDUCATION OF THE VISUALLY HANDICAPPED	*094.227-014	TEACHER, BLIND	5 4 5	TWO TO FOUR YEARS
13.1010	REMEDIAL EDUCATION	*094.227-010	EDUCATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		*094.227-022	TEACHER, MENTALLY RETARDED	5 4 5	TWO TO FOUR YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*094.224-010	TEACHER, DEAF	5 4 5	TWO TO FOUR YEARS
		*094.227-010	EDUCATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		*094.227-014	TEACHER, BLIND	5 4 5	TWO TO FOUR YEARS
		*094.227-018	TEACHER, HANDICAPPED STUDENTS	5 4 5	TWO TO FOUR YEARS
		*094.227-022	TEACHER, MENTALLY RETARDED	5 4 5	TWO TO FOUR YEARS
17.0410	SIGN LANGUAGE INTERPRETING	*094.224-010	TEACHER, DEAF	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 2360

INSTRUCTIONAL COORDINATORS

These workers plan, develop, and support educational programs. These programs may be at the primary, secondary, or higher educational level. For example, some plan and set up community health education programs. Others develop programs to provide in-service training for teachers. Some review courses of study, or order educational materials and supplies for a school system. These people work with school officials, teachers, and community groups to make sure that educational standards and goals are met.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	079.117-014	PUBLIC HEALTH EDUCATOR	5 4 5	FOUR TO TEN YEARS
		099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		099.167-018	DIRECTOR, INSTRUCTIONAL MATERIAL	5 4 5	FOUR TO TEN YEARS
		099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
		099.167-026	MUSIC SUPERVISOR	5 2 5	FOUR TO TEN YEARS
13.0301	CURRICULUM AND INSTRUCTION	*099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		*099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
13.0403	ADULT AND CONTINUING EDUCATION ADMINISTR	*099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		*099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
13.0405	ELEMENTARY AND SECONDARY EDUCATION ADMIN	*099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		*099.167-018	DIRECTOR, INSTRUCTIONAL MATERIAL	5 4 5	FOUR TO TEN YEARS
		*099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
13.0603	EDUCATIONAL STATISTICS AND RESEARCH	*099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		*099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
13.0605	ELEMENTARY AND SECONDARY RESEARCH	*099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		*099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
13.0606	HIGHER EDUCATION RESEARCH	*099.167-014	CONSULTANT, EDUCATION	6 6 5	FOUR TO TEN YEARS
		*099.167-022	EDUCATIONAL SPECIALIST	6 5 5	FOUR TO TEN YEARS
13.1312	MUSIC EDUCATION	*099.167-026	MUSIC SUPERVISOR	5 2 5	FOUR TO TEN YEARS
17.0409	POPULATION AND FAMILY PLANNING	*079.117-014	PUBLIC HEALTH EDUCATOR	5 4 5	FOUR TO TEN YEARS
18.0702	HEALTH CARE PLANNING	*079.117-014	PUBLIC HEALTH EDUCATOR	5 4 5	FOUR TO TEN YEARS
18.1022	PREVENTIVE MEDICINE	*079.117-014	PUBLIC HEALTH EDUCATOR	5 4 5	FOUR TO TEN YEARS

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OCCUPATION: 2390

ADULT EDUCATION AND OTHER TEACHERS, N.E.C.

These people teach special, academic, job-related, and other courses in school business, industrial, and other settings. They may teach any one of a variety of popular courses, such as consumer education, home management, foreign language, art, music, or wood-working. They may teach job-related skills such as assembling watch parts or decorating dinnerware. They plan courses, prepare lessons, and give written or performance tests. They also may advise students in career and related matters.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	075.127-010	INSTRUCTOR, PSYCHIATRIC AIDE	5	4	5	TWO TO FOUR YEARS
		090.227-018	INSTRUCTOR, EXTENSION WORK	5	3	5	FOUR TO TEN YEARS
		096.121-010	COUNTY HOME-DEMONSTRATION AGENT	5	3	5	TWO TO FOUR YEARS
		096.127-010	COUNTY-AGRICULTURAL AGENT	5	3	5	TWO TO FOUR YEARS
		096.127-014	EXTENSION SERVICE SPECIALIST	5	3	5	FOUR TO TEN YEARS
		096.127-022	FOUR-H CLUB AGENT	5	3	5	TWO TO FOUR YEARS
		096.167-010	DISTRICT EXTENSION SERVICE AGENT	5	3	5	FOUR TO TEN YEARS
		097.227-010	INSTRUCTOR, FLYING 2	4	4	3	ONE TO TWO YEARS
		097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
		099.223-010	INSTRUCTOR, DRIVING	4	2	3	THREE TO SIX MONTHS
		099.224-010	INSTRUCTOR, PHYSICAL EDUCATION	5	2	4	TWO TO FOUR YEARS
		099.227-014	INSTRUCTOR, CORRESPONDENCE SCHOOL	5	3	5	TWO TO FOUR YEARS
		099.227-018	INSTRUCTOR, GROUND SERVICES	5	3	5	TWO TO FOUR YEARS
		099.227-026	INSTRUCTOR, MODELING	4	2	4	THREE TO SIX MONTHS
		099.227-030	TEACHER, ADULT EDUCATION	4	2	4	TWO TO FOUR YEARS
		099.227-034	TUTOR	5	3	5	TWO TO FOUR YEARS
		149.021-010	TEACHER, ART	5	4	4	TWO TO FOUR YEARS
		150.027-014	TEACHER, DRAMA	5	2	5	TWO TO FOUR YEARS
		151.027-014	INSTRUCTOR, DANCING	5	2	5	TWO TO FOUR YEARS
		152.021-010	TEACHER, MUSIC	5	2	5	FOUR TO TEN YEARS
		153.227-014	INSTRUCTOR, PHYSICAL	3	3	3	ONE TO TWO YEARS
		153.227-018	INSTRUCTOR, SPORTS	4	3	4	FOUR TO TEN YEARS
		159.227-010	INSTRUCTOR, BRIDGE	4	4	4	FOUR TO TEN YEARS
		683.222-010	INSTRUCTOR, WEAVING	3	2	3	TWO TO FOUR YEARS
		689.222-010	INSTRUCTOR	4	3	3	ONE TO TWO YEARS
		740.221-010	INSTRUCTOR, DECORATING	4	2	3	TWO TO FOUR YEARS
		789.222-010	INSTRUCTOR, APPAREL MANUFACTURE	4	3	3	ONE TO TWO YEARS
		806.227-010	INSTRUCTOR, ROCKET-MOTOR CASE ASSEM	4	2	3	SIX TO 12 MONTHS
01.0502	AGRICULTURAL SERVICES	096.127-018	FEED AND FARM MANAGEMENT ADVISER	4	3	4	TWO TO FOUR YEARS
02.0204	ANIMAL NUTRITION	096.127-018	FEED AND FARM MANAGEMENT ADVISER	4	3	4	TWO TO FOUR YEARS
06.0601	HUMAN RESOURCES DEVELOPMENT	*166.227-010	TRAINING REPRESENTATIVE	5	4	5	TWO TO FOUR YEARS

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OCCUPATION: 2390 ADULT EDUCATION AND OTHER TEACHERS, NOT ELSEWHERE C (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	187.161-014	MANAGER, HANDICRAFT-OR-HOBBY SHOP	4	4 4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	187.161-014	MANAGER, HANDICRAFT-OR-HOBBY SHOP	4	4 4	TWO TO FOUR YEARS
07.0502	TRAINING ASSISTING	166.227-010	TRAINING REPRESENTATIVE	5	4 5	TWO TO FOUR YEARS
07.0503	PERSONNEL ASSISTING	239.227-010	CUSTOMER-SERVICE-REPRESENTATIVE INS	4	2 3	ONE TO TWO YEARS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	235.222-010	PRIVATE-BRANCH-EXCHANGE SERVICE ADV	4	2 4	ONE TO TWO YEARS
08.0102	FASHION MERCHANDISING	096.121-014	HOME ECONOMIST	5	3 5	TWO TO FOUR YEARS
08.0705	RETAILING	187.161-014	MANAGER, HANDICRAFT-OR-HOBBY SHOP	4	4 4	TWO TO FOUR YEARS
13.1002	EDUCATION OF THE CULTURALLY DISADVANTAGE	*099.227-030	TEACHER, ADULT EDUCATION	4	2 4	TWO TO FOUR YEARS
		*149.021-010	TEACHER, ART	5	4 4	TWO TO FOUR YEARS
		*150.027-014	TEACHER, DRAMA	5	2 5	TWO TO FOUR YEARS
		*151.027-014	INSTRUCTOR, DANCING	5	2 5	TWO TO FOUR YEARS
		*152.021-010	TEACHER, MUSIC	5	2 5	FOUR TO TEN YEARS
13.1004	EDUCATION OF THE GIFTED AND TALENTED	*149.021-010	TEACHER, ART	5	4 4	TWO TO FOUR YEARS
		*150.027-014	TEACHER, DRAMA	5	2 5	TWO TO FOUR YEARS
		*151.027-014	INSTRUCTOR, DANCING	5	2 5	TWO TO FOUR YEARS
		*152.021-010	TEACHER, MUSIC	5	2 5	FOUR TO TEN YEARS
13.1007	EDUCATION OF THE MULTIPLE HANDICAPPED	*149.021-010	TEACHER, ART	5	4 4	TWO TO FOUR YEARS
		*150.027-014	TEACHER, DRAMA	5	2 5	TWO TO FOUR YEARS
		*151.027-014	INSTRUCTOR, DANCING	5	2 5	TWO TO FOUR YEARS
		*152.021-010	TEACHER, MUSIC	5	2 5	FOUR TO TEN YEARS
13.1010	REMEDIAL EDUCATION	*099.227-030	TEACHER, ADULT EDUCATION	4	2 4	TWO TO FOUR YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*152.021-010	TEACHER, MUSIC	5	2 5	FOUR TO TEN YEARS
13.1201	ADULT AND CONTINUING EDUCATION	*090.227-018	INSTRUCTOR, EXTENSION WORK	5	3 5	FOUR TO TEN YEARS
		*099.227-014	INSTRUCTOR, CORRESPONDENCE SCHOOL	5	3 5	TWO TO FOUR YEARS
		*099.227-030	TEACHER, ADULT EDUCATION	4	2 4	TWO TO FOUR YEARS
13.1202	ELEMENTARY EDUCATION	*099.224-010	INSTRUCTOR, PHYSICAL EDUCATION	5	2 4	TWO TO FOUR YEARS
		*099.227-034	TUTOR	5	3 5	TWO TO FOUR YEARS
13.1203	JUNIOR HIGH/MIDDLE SCHOOL EDUCATION	*099.224-010	INSTRUCTOR, PHYSICAL EDUCATION	5	2 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2390 ADULT EDUCATION AND OTHER TEACHERS, NOT ELSEWHERE C (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		*099.227-034	TUTOR	5	3	5	TWO TO FOUR YEARS
13.1205	SECONDARY EDUCATION	*099.224-010	INSTRUCTOR, PHYSICAL EDUCATION	5	2	4	TWO TO FOUR YEARS
		*099.227-034	TUTOR	5	3	5	TWO TO FOUR YEARS
13.1301	AGRICULTURAL EDUCATION	*096.121-010	COUNTY HOME-DEMONSTRATION AGENT	5	3	5	TWO TO FOUR YEARS
		*096.121-014	HOME ECONOMIST	5	3	5	TWO TO FOUR YEARS
		*096.127-010	COUNTY-AGRICULTURAL AGENT	5	3	5	TWO TO FOUR YEARS
		*096.127-014	EXTENSION SERVICE SPECIALIST	5	3	5	FOUR TO TEN YEARS
		*096.127-022	FOUR-H CLUB AGENT	5	3	5	TWO TO FOUR YEARS
		*096.167-010	DISTRICT EXTENSION SERVICE AGENT	5	3	5	FOUR TO TEN YEARS
		*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
13.1302	ART EDUCATION	*149.021-010	TEACHER, ART	5	4	4	TWO TO FOUR YEARS
13.1304	DRIVER AND SAFETY EDUCATION	*099.223-010	INSTRUCTOR, DRIVING	4	2	3	THREE TO SIX MONTHS
13.1307	HEALTH EDUCATION	*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
13.1308	HOME ECONOMICS EDUCATION	*096.121-014	HOME ECONOMIST	5	3	5	TWO TO FOUR YEARS
		*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
13.1309	INDUSTRIAL ARTS EDUCATION	*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
13.1310	MARKETING AND DISTRIBUTIVE EDUCATION	*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
13.1312	MUSIC EDUCATION	*152.021-010	TEACHER, MUSIC	5	2	5	FOUR TO TEN YEARS
13.1314	PHYSICAL EDUCATION	*099.224-010	INSTRUCTOR, PHYSICAL EDUCATION	5	2	4	TWO TO FOUR YEARS
		*153.227-014	INSTRUCTOR, PHYSICAL	3	3	3	ONE TO TWO YEARS
		*153.227-018	INSTRUCTOR, SPORTS	4	3	4	FOUR TO TEN YEARS
13.1319	TECHNICAL EDUCATION	*097.227-010	INSTRUCTOR, FLYING 2	4	4	3	ONE TO TWO YEARS
		*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
13.1320	TRADE AND INDUSTRIAL EDUCATION	*097.227-010	INSTRUCTOR, FLYING 2	4	4	3	ONE TO TWO YEARS
		*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
		*099.227-018	INSTRUCTOR, GROUND SERVICES	5	3	5	TWO TO FOUR YEARS
13.1321	COMPUTER EDUCATION	*097.227-014	INSTRUCTOR, VOCATIONAL TRAINING	4	4	4	TWO TO FOUR YEARS
18.1106	PSYCHIATRIC/MENTAL HEALTH	*075.127-010	INSTRUCTOR, PSYCHIATRIC AIDE	5	4	5	TWO TO FOUR YEARS

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OCCUPATION: 2390 ADULT EDUCATION AND OTHER TEACHERS, NOT ELSEWHERE C (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
19.0201	BUSINESS HOME ECONOMICS	*096.121-010	COUNTY HOME-DEMONSTRATION AGENT	5 3 5	TWO TO FOUR YEARS
		*096.121-014	HOME ECONOMIST	5 3 5	TWO TO FOUR YEARS
		*096.127-014	EXTENSION SERVICE SPECIALIST	5 3 5	FOUR TO TEN YEARS
		*096.127-022	FOUR-H CLUB AGENT	5 3 5	TWO TO FOUR YEARS
		*096.167-010	DISTRICT EXTENSION SERVICE AGENT	5 3 5	FOUR TO TEN YEARS
19.0402	CONSUMER SCIENCE	*096.121-014	HOME ECONOMIST	5 3 5	TWO TO FOUR YEARS
19.0502	FOOD/FOOD SCIENCES	*096.121-014	HOME ECONOMIST	5 3 5	TWO TO FOUR YEARS
19.0503	DIETITICS/HUMAN NUTRITIONAL SERVICES	*096.121-014	HOME ECONOMIST	5 3 5	TWO TO FOUR YEARS
20.0202	CHILD CARE AIDE/ASSISTING	099.227-010	CHILDREN'S TUTOR	4 2 4	SIX TO 12 MONTHS
23.1201	ENGLISH AS A SECOND LANGUAGE	*099.227-030	TEACHER, ADULT EDUCATION	4 2 4	TWO TO FOUR YEARS
47.0408	WATCH REPAIR	715.221-010	INSTRUCTOR, WATCH ASSEMBLY	4 3 4	TWO TO FOUR YEARS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	*621.221-010	FIELD-SERVICE REPRESENTATIVE	4 4 4	TWO TO FOUR YEARS
48.0304	SHOE AND BOOT REPAIR	788.222-010	INSTRUCTOR	4 3 4	ONE TO TWO YEARS
49.0205	TRUCK AND BUS DRIVING	919.223-010	INSTRUCTOR, BJS, TROLLEY, AND TAXI	4 3 3	ONE TO TWO YEARS
50.0301	DANCE	*151.027-014	INSTRUCTOR, DANCING	5 2 5	TWO TO FOUR YEARS
50.0501	DRAMATIC ARTS	*150.027-014	TEACHER, DRAMA	5 2 5	TWO TO FOUR YEARS
50.0602	CINEMATOGRAPHY/FILM	*150.027-014	TEACHER, DRAMA	5 2 5	TWO TO FOUR YEARS
50.0703	ART HISTORY AND APPRECIATION	*149.021-010	TEACHER, ART	5 4 4	TWO TO FOUR YEARS
50.0902	MUSIC HISTORY AND APPRECIATION	*152.021-010	TEACHER, MUSIC	5 2 5	FOUR TO TEN YEARS
50.0904	MUSIC THEORY AND COMPOSITION	*152.021-010	TEACHER, MUSIC	5 2 5	FOUR TO TEN YEARS

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OCCUPATION: 2400

VOCATIONAL AND EDUCATIONAL COUNSELORS

These workers counsel people on educational and career matters. They help students or workers by providing them with information about training and jobs and by helping them deal with personal problems. They collect information about people from interviews, tests, records, and other sources. They also compile job, school, and economic information. They determine people's interests, abilities, and needs and plan educational and training programs to suit them. They may help clients get training or other help from community agencies. They also keep records and write reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	045.107-010	COUNSELOR	5 5 5 TWO TO FOUR YEARS
		045.107-014	COUNSELOR, NURSES' ASSOCIATION	5 4 5 FOUR TO TEN YEARS
		045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
		045.107-038	RESIDENCE COUNSELOR	5 4 5 TWO TO FOUR YEARS
		045.107-042	VOCATIONAL-REHABILITATION COUNSELOR	5 3 5 FOUR TO TEN YEARS
		045.117-010	DIRECTOR OF GUIDANCE IN PUBLIC SCHO	5 5 5 FOUR TO TEN YEARS
		090.107-010	FOREIGN-STUDENT ADVISER	5 2 5 TWO TO FOUR YEARS
		169.267-026	SUPERVISOR, SPECIAL SERVICES	5 4 5 ONE TO TWO YEARS
13.0402	ADMINISTRATION OF SPECIAL EDUCATION	*045.107-042	VOCATIONAL-REHABILITATION COUNSELOR	5 3 5 FOUR TO TEN YEARS
		*045.117-010	DIRECTOR OF GUIDANCE IN PUBLIC SCHO	5 5 5 FOUR TO TEN YEARS
13.0405	ELEMENTARY AND SECONDARY EDUCATION ADMIN	*045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
		*045.117-010	DIRECTOR OF GUIDANCE IN PUBLIC SCHO	5 5 5 FOUR TO TEN YEARS
13.0406	HIGHER EDUCATION ADMINISTRATION	*045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
		*090.107-010	FOREIGN-STUDENT ADVISER	5 2 5 TWO TO FOUR YEARS
13.0407	COMMUNITY COLLEGE EDUCATION ADMINISTRATION	*045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
13.0801	SCHOOL PSYCHOLOGY	*045.107-010	COUNSELOR	5 5 5 TWO TO FOUR YEARS
		*045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
		*045.107-038	RESIDENCE COUNSELOR	5 4 5 TWO TO FOUR YEARS
		*045.117-010	DIRECTOR OF GUIDANCE IN PUBLIC SCHO	5 5 5 FOUR TO TEN YEARS
13.1101	STUDENT COUNSELING AND PERSONNEL SERVICE	*045.107-010	COUNSELOR	5 5 5 TWO TO FOUR YEARS
		*045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
		*045.117-010	DIRECTOR OF GUIDANCE IN PUBLIC SCHO	5 5 5 FOUR TO TEN YEARS
42.0601	COUNSELING PSYCHOLOGY	*045.107-010	COUNSELOR	5 5 5 TWO TO FOUR YEARS
		*045.107-018	DIRECTOR OF COUNSELING	5 5 5 FOUR TO TEN YEARS
		*045.107-038	RESIDENCE COUNSELOR	5 4 5 TWO TO FOUR YEARS
		*045.107-042	VOCATIONAL-REHABILITATION COUNSELOR	5 3 5 FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2400 VOCATIONAL AND EDUCATIONAL COUNSELORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*045.117-010	DIRECTOR OF GUIDANCE IN PUBLIC SCHO	5 5 5	FOUR TO TEN YEARS
42.1001	PERSONALITY PSYCHOLOGY	*045.107-010	COUNSELOR	5 5 5	TWO TO FOUR YEARS
		*045.107-014	COUNSELOR, NURSES' ASSOCIATION	5 4 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2500

LIBRARIANS, ARCHIVISTS, AND CURATORS

These workers maintain collections of information and artifacts for libraries and museums. They may collect and catalog books, magazines, films, music, or reference materials. Others collect and identify documents of historical interest. They may also be concerned with the safekeeping of records, art objects, and other rare or valuable items. Some workers care for and display these items in museums, art galleries, arboretums, or similar institutions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2510

LIBRARIANS

LIBRARIANS make information available to people in libraries. They select, order, catalog, and take care of library materials such as books, magazines, newspapers, films, and records. They also help people find information they need. Other duties which they may perform include: supervising staff, preparing budgets, repairing materials, and handling special collections.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
00.0000 NO CIP ASSIGNED	100.117-014 LIBRARY CONSULTANT	6 4 6	FOUR TO TEN YEARS
	100.127-010 CHIEF LIBRARIAN, BRANCH OR DEPARTME	5 3 5	TWO TO FOUR YEARS
	100.127-014 LIBRARIAN	5 3 5	TWO TO FOUR YEARS
	100.167-010 AUDIOVISUAL LIBRARIAN	5 3 3	TWO TO FOUR YEARS
	100.167-014 BOOKMOBILE LIBRARIAN	4 3 4	TWO TO FOUR YEARS
	100.167-018 CHILDREN'S LIBRARIAN	5 3 5	TWO TO FOUR YEARS
	100.167-022 INSTITUTION LIBRARIAN	5 2 5	TWO TO FOUR YEARS
	100.167-026 LIBRARIAN, SPECIAL LIBRARY	5 3 5	TWO TO FOUR YEARS
	100.167-030 MEDIA SPECIALIST, SCHOOL LIBRARY	5 3 4	TWO TO FOUR YEARS
	100.167-034 YOUNG-ADULT LIBRARIAN	5 2 5	TWO TO FOUR YEARS
	100.267-010 ACQUISITIONS LIBRARIAN	4 3 4	ONE TO TWO YEARS
	100.267-014 LIBRARIAN, SPECIAL COLLECTIONS	5 2 5	FOUR TO TEN YEARS
	100.367-022 MUSIC LIBRARIAN	4 2 4	ONE TO TWO YEARS
	100.367-026 MUSIC LIBRARIAN, INTERNATIONAL BROA	4 3 4	ONE TO TWO YEARS
	100.387-010 CATALOG LIBRARIAN	4 2 4	SIX TO 12 MONTHS
13.0501 EDUCATIONAL MEDIA	*100.167-010 AUDIOVISUAL LIBRARIAN	5 3 3	TWO TO FOUR YEARS
	*100.167-030 MEDIA SPECIALIST, SCHOOL LIBRARY	5 3 4	TWO TO FOUR YEARS
25.0201 ARCHIVAL SCIENCE	*100.127-010 CHIEF LIBRARIAN, BRANCH OR DEPARTME	5 3 5	TWO TO FOUR YEARS
	*100.267-014 LIBRARIAN, SPECIAL COLLECTIONS	5 2 5	FOUR TO TEN YEARS
25.0301 LIBRARY ASSISTING	100.367-010 BIBLIOGRAPHER	4 2 4	TWO TO FOUR YEARS
	100.367-014 CLASSIFIER	4 3 4	ONE TO TWO YEARS
25.0401 LIBRARY SCIENCE	*100.117-014 LIBRARY CONSULTANT	6 4 6	FOUR TO TEN YEARS
	*100.127-010 CHIEF LIBRARIAN, BRANCH OR DEPARTME	5 3 5	TWO TO FOUR YEARS
	*100.127-014 LIBRARIAN	5 3 5	TWO TO FOUR YEARS
	*100.167-010 AUDIOVISUAL LIBRARIAN	5 3 3	TWO TO FOUR YEARS
	*100.167-014 BOOKMOBILE LIBRARIAN	4 3 4	TWO TO FOUR YEARS
	*100.167-018 CHILDREN'S LIBRARIAN	5 3 5	TWO TO FOUR YEARS
	*100.167-022 INSTITUTION LIBRARIAN	5 2 5	TWO TO FOUR YEARS
	*100.167-026 LIBRARIAN, SPECIAL LIBRARY	5 3 5	TWO TO FOUR YEARS
	*100.167-034 YOUNG-ADULT LIBRARIAN	5 2 5	TWO TO FOUR YEARS
	*100.267-010 ACQUISITIONS LIBRARIAN	4 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2510 LIBRARIANS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*100.267-014	LIBRARIAN, SPECIAL COLLECTIONS	5 2 5	FOUR TO TEN YEARS
		*100.367-022	MUSIC LIBRARIAN	4 2 4	ONE TO TWO YEARS
		*100.367-026	MUSIC LIBRARIAN, INTERNATIONAL BROA	4 3 4	ONE TO TWO YEARS
		*100.387-010	CATALOG LIBRARIAN	4 2 4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2520

ARCHIVISTS AND CURATORS

ARCHIVISTS and CURATORS conduct research on items or materials of scientific or historical interest. They appraise, edit, and direct the safekeeping of records, historical documents, art objects, and other valuable or rare items. Some plan and direct the major activities of a museum, art gallery, arboretum, or similar institution. Others work to restore or repair articles and prepare them to be exhibited.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	101.167-010	ARCHIVIST	5 3 5	FOUR TO TEN YEARS
		102.017-010	CURATOR	6 5 6	OVER 10 YEARS
		102.117-010	SUPERVISOR, HISTORIC SITES	5 4 5	TWO TO FOUR YEARS
		102.117-014	DIRECTOR, MUSEUM-OR-ZOO	6 4 6	FOUR TO TEN YEARS
		102.167-010	ART CONSERVATOR	5 4 4	FOUR TO TEN YEARS
		102.167-014	HISTORIC-SITE ADMINISTRATOR	5 4 5	SIX TO 12 MONTHS
		102.167-018	REGISTRAR, MUSEUM	5 4 5	ONE TO TWO YEARS
		102.261-010	CONSERVATION TECHNICIAN	4 4 4	ONE TO TWO YEARS
		102.361-010	RESTORER, LACE AND TEXTILES	5 4 4	TWO TO FOUR YEARS
		102.361-014	RESTORER, CERAMIC	5 5 5	TWO TO FOUR YEARS
		102.381-010	MUSEUM TECHNICIAN	4 3 4	TWO TO FOUR YEARS
		109.067-014	RESEARCH ASSOCIATE	6 6 6	TWO TO FOUR YEARS
		109.267-010	RESEARCH ASSISTANT	5 4 4	TWO TO FOUR YEARS
		109.267-014	RESEARCH WORKER, ENCYCLOPEDIA	5 3 5	ONE TO TWO YEARS
		109.281-010	ARMORER TECHNICIAN	5 4 5	TWO TO FOUR YEARS
		109.361-010	RESTORER, PAPER-AND-PRINTS	5 5 5	TWO TO FOUR YEARS
		109.364-010	CRAFT DEMONSTRATOR	4 2 4	THREE TO SIX MONTHS
		109.367-010	MUSEUM ATTENDANT	4 3 4	30 TO 90 DAYS
25.0201	ARCHIVAL SCIENCE	*101.167-010	ARCHIVIST	5 3 5	FOUR TO TEN YEARS
		*102.167-018	REGISTRAR, MUSEUM	5 4 5	ONE TO TWO YEARS
		*109.267-010	RESEARCH ASSISTANT	5 4 4	TWO TO FOUR YEARS
		*109.361-010	RESTORER, PAPER-AND-PRINTS	5 5 5	TWO TO FOUR YEARS
25.0401	LIBRARY SCIENCE	*109.267-014	RESEARCH WORKER, ENCYCLOPEDIA	5 3 5	ONE TO TWO YEARS
25.0501	MUSEOLOGY	*101.167-010	ARCHIVIST	5 3 5	FOUR TO TEN YEARS
		*102.017-010	CURATOR	6 5 6	OVER 10 YEARS
		*102.117-010	SUPERVISOR, HISTORIC SITES	5 4 5	TWO TO FOUR YEARS
		*102.117-014	DIRECTOR, MUSEUM-OR-ZOO	6 4 6	FOUR TO TEN YEARS
		*102.167-010	ART CONSERVATOR	5 4 4	FOUR TO TEN YEARS
		*102.167-014	HISTORIC-SITE ADMINISTRATOR	5 4 5	SIX TO 12 MONTHS
		*102.167-018	REGISTRAR, MUSEUM	5 4 5	ONE TO TWO YEARS
		*102.261-010	CONSERVATION TECHNICIAN	4 4 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2520 ARCHIVISTS AND CURATORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		*102.381-010	MUSEUM TECHNICIAN	4	3 4	TWO TO FOUR YEARS
		*109.067-014	RESEARCH ASSOCIATE	6	6 6	TWO TO FOUR YEARS
		*109.267-010	RESEARCH ASSISTANT	5	4 4	TWO TO FOUR YEARS
		*109.281-010	ARMORER TECHNICIAN	5	4 5	TWO TO FOUR YEARS
		*109.364-010	CRAFT DEMONSTRATOR	4	2 4	THREE TO SIX MONTHS
		*109.367-010	MUSEUM ATTENDANT	4	3 4	30 TO 90 DAYS
50.0702	ART CONSERVATION	*102.167-010	ART CONSERVATOR	5	4 4	FOUR TO TEN YEARS
		*102.261-010	CONSERVATION TECHNICIAN	4	4 4	ONE TO TWO YEARS
		*102.361-010	RESTORER, LACE AND TEXTILES	5	4 4	TWO TO FOUR YEARS
		*102.361-014	RESTORER, CERAMIC	5	5 5	TWO TO FOUR YEARS
		*102.381-010	MUSEUM TECHNICIAN	4	3 4	TWO TO FOUR YEARS
		*109.281-010	ARMORER TECHNICIAN	5	4 5	TWO TO FOUR YEARS
		*109.361-010	RESTORER, PAPER-AND-PRINTS	5	5 5	TWO TO FOUR YEARS
50.0703	ART HISTORY AND APPRECIATION	*102.017-010	CURATOR	6	5 6	OVER 10 YEARS
50.0704	ARTS MANAGEMENT	*102.017-010	CURATOR	6	5 6	OVER 10 YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2599

HEALTH DIAGNOSING AND TREATING PRACTITIONERS

These workers use scientific skills to diagnose and treat disease. They are also concerned with the general health of people and in preventing disease. They may examine patients, perform preventive or corrective procedures, or prescribe treatment and medication. They may specialize in treating one part of the body, working as optometrists or podiatrists, rather than as physicians and dentists

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2600

PHYSICIANS AND DENTISTS

Physicians and dentists help people maintain good health by treating disease and advising patients. They examine patients, determine preventive or corrective treatment, perform procedures to correct problems, and prescribe medication. Veterinarians perform similar services for animals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2610

PHYSICIANS

PHYSICIANS perform medical exams, diagnose diseases, and treat people who are suffering from injury or disease. They also advise patients on how to prevent disease and keep fit through proper exercise and diet. They generally work in their offices and in hospitals. Some, however, visit patients in their homes or in nursing homes. Most PHYSICIANS specialize in a certain field of medicine. Some also do research or teach in medical schools. A few write and edit medical books.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	070.061-010	PATHOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-010	ANESTHESIOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-014	CARDIOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-018	DERMATOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-022	GENERAL PRACTITIONER	6 5 6	FOUR TO TEN YEARS
		070.101-026	FAMILY PRACTITIONER	6 5 6	FOUR TO TEN YEARS
		070.101-030	FLIGHT SURGEON	6 5 6	FOUR TO TEN YEARS
		070.101-034	GYNECOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-038	INTERN	6 5 6	FOUR TO TEN YEARS
		070.101-042	INTERNIST	6 5 6	OVER 10 YEARS
		070.101-046	MEDICAL OFFICER	6 5 6	FOUR TO TEN YEARS
		070.101-050	NEUROLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-054	OBSTETRICIAN	6 5 6	FOUR TO TEN YEARS
		070.101-058	OPHTHALMOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-062	OTOLARYNGOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-066	PEDIATRICIAN	6 5 6	FOUR TO TEN YEARS
		070.101-070	PHYSIATRIST	6 5 6	FOUR TO TEN YEARS
		070.101-074	PHYSICIAN, HEAD	6 5 6	FOUR TO TEN YEARS
		070.101-078	PHYSICIAN, OCCUPATIONAL	6 5 6	FOUR TO TEN YEARS
		070.101-082	POLICE SURGEON	6 5 6	FOUR TO TEN YEARS
		070.101-086	PROCTOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-090	RADIOLOGIST	6 5 6	FOUR TO TEN YEARS
		070.101-094	SURGEON 1	6 5 6	FOUR TO TEN YEARS
		070.101-098	UROLOGIST	6 5 6	FOUR TO TEN YEARS
		070.107-010	ALLERGIST-IMMUNOLOGIST	6 5 6	OVER 10 YEARS
		070.107-014	PSYCHIATRIST	6 5 6	FOUR TO TEN YEARS
		070.107-018	DIRECTOR, DIAGNOSTIC-AND-EVALUATION	6 5 6	FOUR TO TEN YEARS
		070.117-010	CHIEF OF NUCLEAR MEDICINE	6 5 6	OVER 10 YEARS
		070.117-014	DIRECTOR OF RADIOLOGY	6 5 6	FOUR TO TEN YEARS
		071.101-010	OSTEOPATHIC PHYSICIAN	6 5 6	FOUR TO TEN YEARS
18.0201	CLINICAL ANATOMY	*070.101-042	INTERNIST	6 5 6	OVER 10 YEARS
		*070.101-094	SURGEON 1	6 5 6	FOUR TO TEN YEARS
18.0204	CLINICAL PATHOLOGY	*070.061-010	PATHOLOGIST	6 5 6	FOUR TO TEN YEARS

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OCCUPATION: 2610 PHYSICIANS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE			
18.0206	CLINICAL TOXICOLOGY	*070.061-010	PATHOLOGIST	6 5 6	FOUR	TO TEN YEARS
		*070.101-046	MEDICAL OFFICER	6 5 6	FOUR	TO TEN YEARS
18.1002	ALLERGIES AND ENDOLOGY	*070.107-010	ALLERGIST-IMMUNOLOGIST	6 5 6	OVER 10	YEARS
18.1003	ANESTHESIOLOGY	*070.101-010	ANESTHESIOLOGIST	6 5 6	FOUR	TO TEN YEARS
18.1004	COLON AND RECTAL SURGERY	*070.101-086	PROCTOLOGIST	6 5 6	FOUR	TO TEN YEARS
		*070.101-094	SURGEON 1	6 5 6	FOUR	TO TEN YEARS
18.1005	DERMATOLOGY	*070.101-018	DERMATOLOGIST	6 5 6	FOUR	TO TEN YEARS
18.1006	EMERGENCY MEDICINE	*070.101-082	POLICE SURGEON	6 5 6	FOUR	TO TEN YEARS
18.1007	FAMILY PRACTICE	*070.101-022	GENERAL PRACTITIONER	6 5 6	FOUR	TO TEN YEARS
		*070.101-026	FAMILY PRACTITIONER	6 5 6	FOUR	TO TEN YEARS
18.1008	GERIATRICS	*070.101-022	GENERAL PRACTITIONER	6 5 6	FOUR	TO TEN YEARS
		*070.101-026	FAMILY PRACTITIONER	6 5 6	FOUR	TO TEN YEARS
18.1009	IMMUNOLOGY	*070.107-010	ALLERGIST-IMMUNOLOGIST	6 5 6	OVER 10	YEARS
18.1010	INTERNAL MEDICINE	*070.101-042	INTERNIST	6 5 6	OVER 10	YEARS
18.1011	NEUROLOGICAL SURGERY	*070.101-050	NEUROLOGIST	6 5 6	FOUR	TO TEN YEARS
		*070.101-094	SURGEON 1	6 5 6	FOUR	TO TEN YEARS
18.1012	NUCLEAR MEDICINE	*070.117-010	CHIEF OF NUCLEAR MEDICINE	6 5 6	OVER 10	YEARS
18.1013	OBSTETRICS AND GYNECOLOGY	*070.101-034	GYNECOLOGIST	6 5 6	FOUR	TO TEN YEARS
		*070.101-054	OBSTETRICIAN	6 5 6	FOUR	TO TEN YEARS
18.1014	OPHTHALMOLOGY	*070.101-058	OPHTHALMOLOGIST	6 5 6	FOUR	TO TEN YEARS
18.1016	ORTHOPEDIC	*070.101-094	SURGEON 1	6 5 6	FOUR	TO TEN YEARS
18.1017	OTORHINOLARYNGOLOGY/OTOLARYNGOLOGY	*070.101-062	OTOLARYNGOLOGIST	6 5 6	FOUR	TO TEN YEARS
18.1018	PATHOLOGY	*070.061-010	PATHOLOGIST	6 5 6	FOUR	TO TEN YEARS
18.1019	PEDIATRICS	*070.101-066	PEDIATRICIAN	6 5 6	FOUR	TO TEN YEARS

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OCCUPATION: 2610 PHYSICIANS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
18.1020	PHYSICAL MEDICINE AND REHABILITATION	*070.101-070	PHYSIATRIST	6	5	6	FOUR TO TEN YEARS
		*070.101-078	PHYSICIAN, OCCUPATIONAL	6	5	6	FOUR TO TEN YEARS
18.1021	PLASTIC SURGERY	*070.101-094	SURGEON 1	6	5	6	FOUR TO TEN YEARS
18.1022	PREVENTIVE MEDICINE	*070.101-022	GENERAL PRACTITIONER	6	5	6	FOUR TO TEN YEARS
		*070.101-026	FAMILY PRACTITIONER	6	5	6	FOUR TO TEN YEARS
		*070.101-046	MEDICAL OFFICER	6	5	6	FOUR TO TEN YEARS
18.1023	PSYCHIATRY	*070.107-014	PSYCHIATRIST	6	5	6	FOUR TO TEN YEARS
18.1024	NEUROLOGY	*070.101-050	NEUROLOGIST	6	5	6	FOUR TO TEN YEARS
18.1025	RADIOLOGY	*070.101-090	RADIOLOGIST	6	5	6	FOUR TO TEN YEARS
		*070.117-010	CHIEF OF NUCLEAR MEDICINE	6	5	6	OVER 10 YEARS
		*070.117-014	DIRECTOR OF RADIOLOGY	6	5	6	FOUR TO TEN YEARS
18.1026	SURGERY	*070.101-014	CARDIOLOGIST	6	5	6	FOUR TO TEN YEARS
		*070.101-042	INTERNIST	6	5	6	OVER 10 YEARS
		*070.101-062	OTOLARYNGOLOGIST	6	5	6	FOUR TO TEN YEARS
		*070.101-074	PHYSICIAN, HEAD	6	5	6	FOUR TO TEN YEARS
		*070.101-086	PROCTOLOGIST	6	5	6	FOUR TO TEN YEARS
		*070.101-094	SURGEON 1	6	5	6	FOUR TO TEN YEARS
		*070.101-098	UROLOGIST	6	5	6	FOUR TO TEN YEARS
		*071.101-010	OSTEOPATHIC PHYSICIAN	6	5	6	FOUR TO TEN YEARS
18.1027	THORACIC SURGERY	*070.101-042	INTERNIST	6	5	6	OVER 10 YEARS
		*070.101-062	OTOLARYNGOLOGIST	6	5	6	FOUR TO TEN YEARS
		*070.101-094	SURGEON 1	6	5	6	FOUR TO TEN YEARS
18.1028	UROLOGY	*070.101-098	UROLOGIST	6	5	6	FOUR TO TEN YEARS
18.1030	SPORTS MEDICINE	*071.101-010	OSTEOPATHIC PHYSICIAN	6	5	6	FOUR TO TEN YEARS
18.1301	OSTEOPATHIC MEDICINE	*071.101-010	OSTEOPATHIC PHYSICIAN	6	5	6	FOUR TO TEN YEARS
18.2202	EPIDEMIOLOGY	*070.061-010	PATHOLOGIST	6	5	6	FOUR TO TEN YEARS
		*070.101-046	MEDICAL OFFICER	6	5	6	FOUR TO TEN YEARS
18.2203	PUBLIC HEALTH EDUCATION	*070.101-046	MEDICAL OFFICER	6	5	6	FOUR TO TEN YEARS
26.0704	PATHOLOGY, HUMAN AND ANIMAL	*070.061-010	PATHOLOGIST	6	5	6	FOUR TO TEN YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
42.0701	DEVELOPMENTAL PSYCHOLOGY	*070.107-018	DIRECTOR, DIAGNOSTIC-AND-EVALUATION	6 5 6 FOUR TO TEN YEARS

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OCCUPATION: 2620

DENTISTS

DENTISTS examine teeth and other parts of the mouth to diagnose diseases or disorders. They take x-rays, fill cavities, straighten teeth, and treat gum diseases. They pull teeth and replace them with dentures. They also perform surgery on gums and supporting bones to correct them. Most practice general dentistry, but a few specialize in areas of care such as childrens' dentistry or the treatment of gums. A few DENTISTS teach in dental schools, do research, or run dental health programs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	072.061-010	ORAL PATHOLOGIST	6 5 5	FOUR TO TEN YEARS
		072.101-010	DENTIST	6 5 5	FOUR TO TEN YEARS
		072.101-014	ENDODONTIST	6 5 5	FOUR TO TEN YEARS
		072.101-018	ORAL SURGEON	6 5 5	FOUR TO TEN YEARS
		072.101-022	ORTHODONTIST	6 5 5	FOUR TO TEN YEARS
		072.101-026	PEDODONTIST	6 5 5	FOUR TO TEN YEARS
		072.101-030	PERIODONTIST	6 5 5	FOUR TO TEN YEARS
		072.101-034	PROSTHODONTIST	6 5 5	FOUR TO TEN YEARS
		072.101-038	PUBLIC-HEALTH DENTIST	6 5 5	FOUR TO TEN YEARS
		072.117-010	DIRECTOR, DENTAL SERVICES	6 5 5	FOUR TO TEN YEARS
18.0402	DENTAL PUBLIC HEALTH	*072.101-010	DENTIST	6 5 5	FOUR TO TEN YEARS
		*072.101-038	PUBLIC-HEALTH DENTIST	6 5 5	FOUR TO TEN YEARS
		*072.117-010	DIRECTOR, DENTAL SERVICES	6 5 5	FOUR TO TEN YEARS
18.0403	ENDODONTICS	*072.101-010	DENTIST	6 5 5	FOUR TO TEN YEARS
		*072.101-014	ENDODONTIST	6 5 5	FOUR TO TEN YEARS
18.0404	ORAL/MAXIAL FACIAL SURGERY	*072.061-010	ORAL PATHOLOGIST	6 5 5	FOUR TO TEN YEARS
		*072.101-018	ORAL SURGEON	6 5 5	FOUR TO TEN YEARS
18.0405	ORAL PATHOLOGY	*072.061-010	ORAL PATHOLOGIST	6 5 5	FOUR TO TEN YEARS
		*072.101-018	ORAL SURGEON	6 5 5	FOUR TO TEN YEARS
18.0406	ORTHODONTICS	*072.101-022	ORTHODONTIST	6 5 5	FOUR TO TEN YEARS
18.0407	PEDODONTICS	*072.101-010	DENTIST	6 5 5	FOUR TO TEN YEARS
		*072.101-026	PEDODONTIST	6 5 5	FOUR TO TEN YEARS
18.0408	PERIODONTICS	*072.101-010	DENTIST	6 5 5	FOUR TO TEN YEARS
		*072.101-030	PERIODONTIST	6 5 5	FOUR TO TEN YEARS
18.0409	PROSTHODONTICS	*072.101-010	DENTIST	6 5 5	FOUR TO TEN YEARS
		*072.101-034	PROSTHODONTIST	6 5 5	FOUR TO TEN YEARS

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OCCUPATION: 2620 DENTISTS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
18.1015	ORTHODONTIC SURGERY	*072.101-018	ORAL SURGEON	6 5 5	FOUR TO TEN YEARS
		*072.101-022	ORTHODONTIST	6 5 5	FOUR TO TEN YEARS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*072.101-038	PUBLIC-HEALTH DENTIST	6 5 5	FOUR TO TEN YEARS

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OCCUPATION: 2700

VETERINARIANS

VETERINARIANS (doctors of veterinary medicine) study, diagnose, treat, and help to control diseases and injuries among animals. They also help prevent the outbreak and spread of animal diseases, many of which can affect humans. They treat animals in hospitals and clinics or on farms and ranches. They operate on sick or injured animals and prescribe and give medicines, drugs, and vaccines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M I. TRAINING TIME
00.0000 NO CIP ASSIGNED	073.061-010 VETERINARIAN, LABORATORY ANIMAL CAR	5 4 5 FOUR TO TEN YEARS
	073.061-014 VETERINARY ANATOMIST	5 4 5 FOUR TO TEN YEARS
	073.061-018 VETERINARY BACTERIOLOGIST	5 4 5 FOUR TO TEN YEARS
	073.061-022 VETERINARY EPIDEMIOLOGIST	5 4 5 FOUR TO TEN YEARS
	073.061-026 VETERINARY PARASITOLOGIST	5 4 5 FOUR TO TEN YEARS
	073.061-030 VETERINARY PATHOLOGIST	6 5 5 FOUR TO TEN YEARS
	073.061-034 VETERINARY PHARMACOLOGIST	5 4 4 FOUR TO TEN YEARS
	073.061-038 VETERINARY PHYSIOLOGIST	5 4 5 FOUR TO TEN YEARS
	073.061-042 VETERINARY VIROLOGIST	5 4 5 FOUR TO TEN YEARS
	073.101-010 VETERINARIAN	5 4 5 FOUR TO TEN YEARS
	073.101-014 VETERINARIAN, POULTRY	5 4 5 FOUR TO TEN YEARS
	073.101-018 ZOO VETERINARIAN	6 5 5 FOUR TO TEN YEARS
	073.161-010 VETERINARY LIVESTOCK INSPECTOR	5 4 4 TWO TO FOUR YEARS
	073.261-010 VETERINARY VIRUS-SERUM INSPECTOR	5 4 4 TWO TO FOUR YEARS
	073.264-010 VETERINARY MEAT-INSPECTOR	5 4 4 FOUR TO TEN YEARS
17.0303 CLINICAL ANIMAL TECHNOLOGY	079.361-014 ANIMAL HEALTH TECHNICIAN	4 3 4 ONE TO TWO YEARS
17.0512 VETERINARIAN ASSISTING	079.361-014 ANIMAL HEALTH TECHNICIAN	4 3 4 ONE TO TWO YEARS
18.2401 VETERINARY MEDICINE	*073.061-010 VETERINARIAN, LABORATORY ANIMAL CAR	5 4 5 FOUR TO TEN YEARS
	*073.061-014 VETERINARY ANATOMIST	5 4 5 FOUR TO TEN YEARS
	*073.061-018 VETERINARY BACTERIOLOGIST	5 4 5 FOUR TO TEN YEARS
	*073.061-022 VETERINARY EPIDEMIOLOGIST	5 4 5 FOUR TO TEN YEARS
	*073.061-026 VETERINARY PARASITOLOGIST	5 4 5 FOUR TO TEN YEARS
	*073.061-030 VETERINARY PATHOLOGIST	6 5 5 FOUR TO TEN YEARS
	*073.061-034 VETERINARY PHARMACOLOGIST	5 4 4 FOUR TO TEN YEARS
	*073.061-038 VETERINARY PHYSIOLOGIST	5 4 5 FOUR TO TEN YEARS
	*073.061-042 VETERINARY VIROLOGIST	5 4 5 FOUR TO TEN YEARS
	*073.101-010 VETERINARIAN	5 4 5 FOUR TO TEN YEARS
	*073.101-014 VETERINARIAN, POULTRY	5 4 5 FOUR TO TEN YEARS
	*073.101-018 ZOO VETERINARIAN	6 5 5 FOUR TO TEN YEARS
	*073.161-010 VETERINARY LIVESTOCK INSPECTOR	5 4 4 TWO TO FOUR YEARS
	*073.261-010 VETERINARY VIRUS-SERUM INSPECTOR	5 4 4 TWO TO FOUR YEARS
	*073.264-010 VETERINARY MEAT-INSPECTOR	5 4 4 FOUR TO TEN YEARS

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OCCUPATION: 2700 VETERINARIANS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
26.0704	PATHOLOGY, HUMAN AND ANIMAL	*073.061-018	VETERINARY BACTERIOLOGIST	5 4 5	FOUR TO TEN YEARS
		*073.061-022	VETERINARY EPIDEMIOLOGIST	5 4 5	FOUR TO TEN YEARS
		*073.061-026	VETERINARY PARASITOLOGIST	5 4 5	FOUR TO TEN YEARS
		*073.061-030	VETERINARY PATHOLOGIST	6 5 5	FOUR TO TEN YEARS
		*073.061-042	VETERINARY VIROLOGIST	5 4 5	FOUR TO TEN YEARS
		*073.101-010	VETERINARIAN	5 4 5	FOUR TO TEN YEARS
26.0705	PHARMACOLOGY, HUMAN AND ANIMAL	*073.061-034	VETERINARY PHARMACOLOGIST	5 4 4	FOUR TO TEN YEARS
26.0706	PHYSIOLOGY, HUMAN AND ANIMAL	*073.061-014	VETERINARY ANATOMIST	5 4 5	FOUR TO TEN YEARS
		*073.061-038	VETERINARY PHYSIOLOGIST	5 4 5	FOUR TO TEN YEARS

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OCCUPATION: 2800

OTHER HEALTH DIAGNOSING AND TREATING PRACTITIONERS

Other health diagnosing and treating practitioners include such occupations as optometrists and podiatrists. These workers specialize in treating one part of the body, such as certain vision problems or foot problems. They examine patients, determine treatment, perform corrective procedures, and sometimes prescribe medication.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME

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OCCUPATION: 2810

OPTOMETRISTS

OPTOMETRISTS examine people's eyes for vision problems, diseases, and other disorders of the eye. They also test eyes for proper depth and color perception and focus. When necessary, they prescribe lenses and treatment. When they find evidence of disease, they refer patients to doctors and treat eyes. Most OPTOMETRISTS supply eyeglasses and fit and adjust contact lenses. Some specialize in work with the aged, children, or the visual safety of industrial workers. Some OPTOMETRISTS teach or do research.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME
00.0000	NO CIP ASSIGNED	079.101-018	OPTOMETRIST	5 5 5 TWO TO FOUR YEARS
18.1201	OPTOMETRY	*079.101-018	OPTOMETRIST	5 5 5 TWO TO FOUR YEARS

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OCCUPATION: 2830

PODIATRISTS

PODIATRISTS diagnose and treat diseases and disorders of the foot. They perform surgery, fit corrective devices, and prescribe drugs, therapy, and proper shoes. To help in diagnoses, they take x-rays and perform tests. They treat a variety of foot conditions, including corns, bunions, calluses, ingrown toenails, skin diseases, fallen arches, and deformed toes. Some specialize in foot surgery, bone disorders, children's foot ailments, or foot problems of the aged. Most provide all types of foot care.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	079.101-022 PODIATRIST	5 4 5 TWO TO FOUR YEARS
18.1501 PODIATRY	*079.101-022 PODIATRIST	5 4 5 TWO TO FOUR YEARS

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OCCUPATION: 2890

HEALTH DIAGNOSING AND TREATING PRACTITIONERS, N.E.C.

These workers diagnose and treat human ailments, and prescribe and give treatments for diseases and illnesses. Generally, these workers are not medical doctors. Some adjust the spinal columns and other parts of people's bodies to prevent disease and correct conditions thought to be caused by nervous system disorders. Some treat patients using natural means such as air, water, earth, food, and herbs. Some hypnotize patients to change their behavior patterns. Some use acupuncture needles to treat ailments and relieve pain.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	079.101-010	CHIROPRACTOR	5	4	5	TWO TO FOUR YEARS
		079.101-014	DOCTOR, NATUROPATHIC	5	4	5	TWO TO FOUR YEARS
		079.157-010	HYPNOTHERAPIST	4	3	4	TWO TO FOUR YEARS
		079.271-010	ACUPUNCTURIST	5	4	5	ONE TO TWO YEARS
		079.271-014	ACUPRESSURIST	5	3	4	TWO TO FOUR YEARS
18.0301	CHIROPRACTIC	*079.101-010	CHIROPRACTOR	5	4	5	TWO TO FOUR YEARS
		*079.101-014	DOCTOR, NATUROPATHIC	5	4	5	TWO TO FOUR YEARS
		*079.157-010	HYPNOTHERAPIST	4	3	4	TWO TO FOUR YEARS
		*079.271-010	ACUPUNCTURIST	5	4	5	ONE TO TWO YEARS
		*079.271-014	ACUPRESSURIST	5	3	4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2899

REGISTERED NURSES, PHARMACISTS, DIETITIANS, THERAPISTS, AND PHYSICIAN'S

These workers provide medical support services to treat and prevent disease. They may work for hospitals, pharmacies, clinics, institutions, cafeterias, convalescent hospitals and nursing homes. They may plan diets or menus, give therapy treatments, assist doctors, or fill prescriptions. They consult with doctors on appropriate medication, diet or therapeutic treatment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 2900

REGISTERED NURSES

As important members of the health care team, REGISTERED NURSES perform a wide range of functions. They observe and record symptoms, reactions, and the progress of patients. They give medicine and drugs to patients as prescribed by doctors. They also help treat patients and instruct them and their families in proper health care. Some of these nurses provide nursing services in hospitals, doctors' offices, and nursing homes. Others do research work or instruct students.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M : TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	075.127-014	NURSE, CONSULTANT	5	4	5	TWO TO FOUR YEARS
		075.127-022	NURSE, SUPERVISOR	5	4	5	TWO TO FOUR YEARS
		075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS
		075.137-010	NURSE, SUPERVISOR, OCCUPATIONAL HEA	5	4	5	TWO TO FOUR YEARS
		075.264-010	NURSE PRACTITIONER	5	5	5	FOUR TO TEN YEARS
		075.264-014	NURSE-MIDWIFE	5	5	3	TWO TO FOUR YEARS
18.0702	HEALTH CARE PLANNING	*075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS
18.1003	ANESTHESIOLOGY	*075.371-010	NURSE ANESTHETIST	5	4	5	TWO TO FOUR YEARS
18.1022	PREVENTIVE MEDICINE	*075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS
18.1101	NURSING, GENERAL	075.124-010	NURSE, SCHOOL	5	4	5	TWO TO FOUR YEARS
		075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		075.127-013	NURSE, HEAD	5	4	5	TWO TO FOUR YEARS
		075.127-050	NURSE SUPERVISOR, EVENING-OR-NIGHT	5	4	5	FOUR TO TEN YEARS
		075.371-010	NURSE ANESTHETIST	5	4	5	TWO TO FOUR YEARS
		075.374-010	NURSE, GENERAL DUTY	5	4	5	TWO TO FOUR YEARS
		075.374-014	NURSE, OFFICE	5	4	5	TWO TO FOUR YEARS
		075.374-018	NURSE, PRIVATE DUTY	5	4	5	TWO TO FOUR YEARS
		075.374-022	NURSE, STAFF, OCCUPATIONAL HEALTH N	5	4	5	TWO TO FOUR YEARS
18.1102	ANESTHETIST	*075.371-010	NURSE ANESTHETIST	5	4	5	TWO TO FOUR YEARS
18.1103	MATERNAL/CHILD HEALTH	*075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.264-014	NURSE-MIDWIFE	5	5	3	TWO TO FOUR YEARS
		*075.374-014	NURSE, OFFICE	5	4	5	TWO TO FOUR YEARS
18.1104	MEDICAL SURGICAL	*075.127-018	NURSE, HEAD	5	4	5	TWO TO FOUR YEARS
		*075.127-022	NURSE, SUPERVISOR	5	4	5	TWO TO FOUR YEARS

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OCCUPATION: 2900 REGISTERED NURSES

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		*075.264-010	NURSE PRACTITIONER	5	5	5	FOUR TO TEN YEARS
		*075.374-010	NURSE, GENERAL DUTY	5	4	5	TWO TO FOUR YEARS
		*075.374-014	NURSE, OFFICE	5	4	5	TWO TO FOUR YEARS
18.1107	PUBLIC HEALTH	*075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.127-014	NURSE, CONSULTANT	5	4	5	TWO TO FOUR YEARS
		*075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS
18.2203	PUBLIC HEALTH EDUCATION	*075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*075.124-014	NURSE, STAFF, COMMUNITY HEALTH	5	4	5	TWO TO FOUR YEARS
		*075.127-026	NURSE, SUPERVISOR, COMMUNITY-HEALTH	5	4	5	TWO TO FOUR YEARS

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OCCUPATION: 3000

PHARMACISTS, DIETITIANS, THERAPISTS, AND PHYSICIAN'S ASSISTANTS

Workers in these occupations provide medical support services to help prevent and treat disease. They may work for hospitals, pharmacies, clinics, institutions, cafeterias, convalescent hospitals or nursing homes. They may plan diets or menus, provide diagnostic services or give therapy treatments. They may fill prescriptions for medication. They consult with doctors on appropriate medication, diet, or therapeutic treatment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3010

PHARMACISTS

PHARMACISTS dispense drugs and medicine prescribed by doctors and dentists. They also advise people on the use of medicines that can be bought without a doctor's order. They may prepare medicines and test drugs for purity and strength. Some keep records of the drugs patients use and advise doctors on the selection and use of drugs. Many who work in drug stores also buy and sell goods and hire and supervise staff. Others teach, do research, do consulting work, or write and edit technical articles.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M I	TRAINING TIME
00.0000 NO CIP ASSIGNED	074.131-010 DIRECTOR, PHARMACY SERVICES	6 6 6	FOUR TO TEN YEARS
	074.161-010 PHARMACIST	5 5 5	TWO TO FOUR YEARS
	074.161-014 RADIOPHARMACIST	6 5 5	TWO TO FOUR YEARS
18.0701 HEALTH SERVICES ADMINISTRATION	*074.131-010 DIRECTOR, PHARMACY SERVICES	6 6 6	FOUR TO TEN YEARS
18.1401 PHARMACY	*074.131-010 DIRECTOR, PHARMACY SERVICES	6 6 6	FOUR TO TEN YEARS
	*074.161-010 PHARMACIST	5 5 5	TWO TO FOUR YEARS
	*074.161-014 RADIOPHARMACIST	6 5 5	TWO TO FOUR YEARS
26.0611 RADIOBIOLOGY	*074.161-014 RADIOPHARMACIST	6 5 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3020

DIETITIANS

DIETITIANS plan healthful and tasty meals to help people keep or recover their good health. They also supervise staff who prepare and serve meals, manage food and related purchases, prepare food budgets, and give advice on good eating habits. Some DIETITIANS plan and direct food preparation in places such as hospitals, nursing homes, clinics, and schools. Others teach, do research, or act as consultants.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	077.061-010	DIETITIAN, RESEARCH	6	5	5	FOUR TO TEN YEARS
		077.117-010	DIETITIAN, CHIEF	5	4	5	FOUR TO TEN YEARS
		077.127-010	COMMUNITY DIETITIAN	5	4	5	FOUR TO TEN YEARS
		077.127-014	DIETITIAN, CLINICAL	5	4	5	TWO TO FOUR YEARS
		077.127-018	DIETITIAN, CONSULTANT	5	4	5	FOUR TO TEN YEARS
		077.127-022	DIETITIAN, TEACHING	5	4	5	FOUR TO TEN YEARS
		077.167-010	DIETETIC INTERN	5	4	5	ONE TO TWO YEARS
13.1313	NUTRITIONAL EDUCATION	*077.127-022	DIETITIAN, TEACHING	5	4	5	FOUR TO TEN YEARS
18.1107	PUBLIC HEALTH	*077.127-010	COMMUNITY DIETITIAN	5	4	5	FOUR TO TEN YEARS
		*077.127-022	DIETITIAN, TEACHING	5	4	5	FOUR TO TEN YEARS
19.0502	FOOD/FOOD SCIENCES	*077.061-010	DIETITIAN, RESEARCH	6	5	5	FOUR TO TEN YEARS
		*077.117-010	DIETITIAN, CHIEF	5	4	5	FOUR TO TEN YEARS
		*077.121-010	DIETETIC TECHNICIAN	5	4	5	FOUR TO TEN YEARS
		*077.127-010	COMMUNITY DIETITIAN	5	4	5	FOUR TO TEN YEARS
		*077.127-014	DIETITIAN, CLINICAL	5	4	5	TWO TO FOUR YEARS
		*077.127-018	DIETITIAN, CONSULTANT	5	4	5	FOUR TO TEN YEARS
		*077.127-022	DIETITIAN, TEACHING	5	4	5	FOUR TO TEN YEARS
		*077.167-010	DIETETIC INTERN	5	4	5	ONE TO TWO YEARS
19.0503	DIETITICS/HUMAN NUTRITIONAL SERVICES	*077.061-010	DIETITIAN, RESEARCH	6	5	5	FOUR TO TEN YEARS
		*077.117-010	DIETITIAN, CHIEF	5	4	5	FOUR TO TEN YEARS
		*077.121-010	DIETETIC TECHNICIAN	5	4	5	FOUR TO TEN YEARS
		*077.127-010	COMMUNITY DIETITIAN	5	4	5	FOUR TO TEN YEARS
		*077.127-014	DIETITIAN, CLINICAL	5	4	5	TWO TO FOUR YEARS
		*077.127-018	DIETITIAN, CONSULTANT	5	4	5	FOUR TO TEN YEARS
		*077.127-022	DIETITIAN, TEACHING	5	4	5	FOUR TO TEN YEARS
		*077.167-010	DIETETIC INTERN	5	4	5	ONE TO TWO YEARS
20.0404	DIETETIC AIDE/ASSISTING	077.121-010	DIETETIC TECHNICIAN	5	4	5	FOUR TO TEN YEARS
26.0609	NUTRITIONAL SCIENCES	*077.061-010	DIETITIAN, RESEARCH	6	5	5	FOUR TO TEN YEARS

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OCCUPATION: 3020 DIETITIANS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*077.117-010	DIETITIAN, CHIEF	5 4 5	FOUR TO TEN YEARS
		*077.121-010	DIETETIC TECHNICIAN	5 4 5	FOUR TO TEN YEARS
		*077.127-010	COMMUNITY DIETITIAN	5 4 5	FOUR TO TEN YEARS
		*077.127-014	DIETITIAN, CLINICAL	5 4 5	TWO TO FOUR YEARS
		*077.127-018	DIETITIAN, CONSULTANT	5 4 5	FOUR TO TEN YEARS
		*077.127-022	DIETITIAN, TEACHING	5 4 5	FOUR TO TEN YEARS
		*077.167-010	DIETETIC INTERN	5 4 5	ONE TO TWO YEARS

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OCCUPATION: 3030

THERAPISIS

Workers in these occupations work with patients to help them gain abilities that may have been damaged by illness, accident, or handicap. They may work with people who have difficulty breathing or moving certain parts of their bodies. Others may develop and direct educational, vocational, or recreational programs for patients with physical, mental, or emotional problems. Some therapists work with people with speech or hearing problems. Therapists may also teach or do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 3031

RESPIRATORY THERAPISTS

RESPIRATORY THERAPISTS treat patients who have breathing problems. This treatment may range from giving short-term relief to asthma patients to giving emergency care in cases of heart failure, stroke, drowning, and shock. These workers are among the first medical specialists called in to treat breathing problems caused by head injury or drug poisoning.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	REL TRAINING TIME
CODE	TITLE	CODE	TITLE		
17.0210	RESPIRATORY THERAPY TECHNOLOGY	079.361-010	RESPIRATORY THERAPIST	4 3 3	ONE TO TWO YEARS
17.0818	RESPIRATORY THERAPY	079.361-010	RESPIRATORY THERAPIST	4 3 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 3032

OCCUPATIONAL THERAPISTS

These people plan and direct educational, vocational, and recreational activities designed to help patients with physical, mental, or emotional problems become self-sufficient. They evaluate the abilities of patients, set goals for them, and plan therapy programs. They teach skills and the use of tools to restore clients' movement, coordination, and confidence. They also plan and direct games and other activities and may design devices to aid clients. Some teach or do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	076.167-010	INDUSTRIAL THERAPIST	5 5 5	TWO TO FOUR YEARS
17.0803	DANCE THERAPY	076.121-010	OCCUPATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS
17.0807	OCCUPATIONAL THERAPY	076.121-010	OCCUPATIONAL THERAPIST	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 3033

PHYSICAL THERAPISTS

PHYSICAL THERAPISTS give treatments to help relieve patients' pain and develop or restore their physical health. They help persons with muscle, nerve, joint and bone diseases, or injuries to overcome their disabilities. Their patients include accident victims, handicapped children, and disabled older persons. They test and measure physical abilities and plan treatment programs. They may use such means as exercise, massage, water, or electricity to relieve pain or improve the condition of muscles and skin.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	076.124-010	MANUAL-ARTS THERAPIST	4 4 4	TWO TO FOUR YEARS
17.0802	CORRECTIVE THERAPY	076.361-010	CORRECTIVE THERAPIST	4 2 4	TWO TO FOUR YEARS
17.0803	DANCE THERAPY	076.361-010	CORRECTIVE THERAPIST	4 2 4	TWO TO FOUR YEARS
17.0813	PHYSICAL THERAPY	076.121-014	PHYSICAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		076.264-010	PHYSICAL-INTEGRATION PRACTITIONER	3 1 2	ONE TO TWO YEARS
18.1020	PHYSICAL MEDICINE AND REHABILITATION	*076.121-014	PHYSICAL THERAPIST	5 4 5	TWO TO FOUR YEARS
18.1030	SPORTS MEDICINE	*076.121-014	PHYSICAL THERAPIST	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 3034

SPEECH PATHOLOGISTS AND AUDIOLOGISTS

Workers in this field provide direct services to people by evaluating their speech, language, or hearing disorders and providing treatment. They help clients whose disorders result from causes such as hearing loss, brain injury, cleft palate, mental retardation, emotional problems, or foreign dialect. Some do research to find causes of speech and hearing disorders and better methods to treat them. Others teach or do consulting work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	076.101-010	AUDIOLOGIST	5 4 5	TWO TO FOUR YEARS
		076.107-010	SPEECH PATHOLOGIST	6 5 6	TWO TO FOUR YEARS
18.0101	AUDIOLOGY	*076.101-010	AUDIOLOGIST	5 4 5	TWO TO FOUR YEARS
18.0102	SPEECH PATHOLOGY	*076.107-010	SPEECH PATHOLOGIST	6 5 6	TWO TO FOUR YEARS
18.0103	SPEECH-LANGUAGE PATHOLOGY/AUDIOLOGY	*076.101-010	AUDIOLOGIST	5 4 5	TWO TO FOUR YEARS
		*076.107-010	SPEECH PATHOLOGIST	6 5 6	TWO TO FOUR YEARS
42.1201	PSYCHOLINGUISTICS	*076.107-010	SPEECH PATHOLOGIST	6 5 6	TWO TO FOUR YEARS

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OCCUPATION: 3039

THERAPIST, N.E.C.

These workers plan, organize, and direct therapy programs designed to relieve patients' pain and develop or restore their physical and mental health. They consult with medical and professional staff to plan physical, occupational, recreational, and other programs. Most specialize in one type of therapy, such as musical, or athletic programs. They work directly with patients in hospitals, clinics, and other facilities. They watch patients' progress in therapy and prepare reports for use by doctors and other professionals. Some specialize in serving the needs of newly blinded patients.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	076.117-010	COORDINATOR OF REHABILITATION SERVI	5 5 5	FOUR TO TEN YEARS
		076.124-018	HORTICULTURAL THERAPIST	5 4 5	TWO TO FOUR YEARS
		076.221-010	ORIENTATION THERAPIST FOR THE BLIND	5 2 5	TWO TO FOUR YEARS
13.1007	EDUCATION OF THE MULTIPLE HANDICAPPED	*076.221-010	ORIENTATION THERAPIST FOR THE BLIND	5 2 5	TWO TO FOUR YEARS
13.1009	EDUCATION OF THE VISUALLY HANDICAPPED	*076.221-010	ORIENTATION THERAPIST FOR THE BLIND	5 2 5	TWO TO FOUR YEARS
13.1011	SPECIFIC LEARNING DISABILITIES	*076.221-010	ORIENTATION THERAPIST FOR THE BLIND	5 2 5	TWO TO FOUR YEARS
17.0801	ART THERAPY	076.127-010	ART THERAPIST	4 4 4	TWO TO FOUR YEARS
17.0803	DANCE THERAPY	076.127-018	DANCE THERAPIST	5 3 5	FOUR TO TEN YEARS
17.0806	MUSIC THERAPY	076.127-014	MUSIC THERAPIST	6 5 6	TWO TO FOUR YEARS
17.0816	RECREATIONAL THERAPY	076.124-014	RECREATIONAL THERAPIST	4 2 4	ONE TO TWO YEARS
18.0701	HEALTH SERVICES ADMINISTRATION	*076.117-010	COORDINATOR OF REHABILITATION SERVI	5 5 5	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3040

PHYSICIAN'S ASSISTANT

PHYSICIAN'S ASSISTANTS help doctors treat sick or injured patients. They provide patient services under the direct supervision of a doctor. They talk with patients to set detailed medical information. They also give medical exams and order lab tests. They provide the doctor with information needed to treat patients. They also provide minor medical services. For example, they sew up minor cuts and apply and remove casts. They may assist in surgery and counsel patients on health and disease matters.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
17.0508	PHYSICIAN ASSISTING	079.364-018	PHYSICIAN ASSISTANT	5 4 5 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3199

WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES

These workers use their skills and talents to inform and entertain. They may work as writers or editors who publish or broadcast factual information or create entertainment. They may perform on stage as characters in movies and plays, as singers, or as stunt performers. They may use dialogue, actions, or stunts to communicate. Athletes use physical skill to compete in sports activities for the entertainment of others.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3200

WRITERS, ARTISTS, PERFORMERS, AND RELATED WORKERS

Writers, artists, performers, and related workers use their talents and skills to inform, instruct, and entertain others. They may work in businesses and industries that provide factual or illustrative material for informational purposes. They may also produce scripts, fiction, works of art, or visual elements for various forms of entertainment. They may use actions dialogue, or stunts to communicate or entertain.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CCDE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3210

AUTHORS

AUTHORS write to entertain and inform people. They create written material for publication in printed form and for spoken use. Some write books, plays, novels, poems, or other works. Others do such things as write words for songs; prepare scripts for radio and TV announcers; or adapt books or plays into scripts for movies. Still others use their knowledge of language to translate spoken or written passages from one language to another or to sign language.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	131.067-034	LYRICIST	6 2 6	TWO TO FOUR YEARS
		131.067-038	PLAYWRIGHT	6 2 6	FOUR TO TEN YEARS
		131.067-042	POET	6 2 6	TWO TO FOUR YEARS
		131.067-046	WRITER, PROSE, FICTION AND NONFICTI	6 3 6	FOUR TO TEN YEARS
		131.087-010	CONTINUITY WRITER	5 2 5	TWO TO FOUR YEARS
		131.087-014	READER	5 2 5	ONE TO TWO YEARS
		131.087-018	SCREEN WRITER	6 2 6	TWO TO FOUR YEARS
09.0401	JOURNALISM (MASS COMMUNICATIONS)	*131.087-010	CONTINUITY WRITER	5 2 5	TWO TO FOUR YEARS
23.0101	ENGLISH, GENERAL	*131.067-038	PLAYWRIGHT	6 2 6	FOUR TO TEN YEARS
		*131.067-042	POET	6 2 6	TWO TO FOUR YEARS
		*131.067-046	WRITER, PROSE, FICTION AND NONFICTI	6 3 6	FOUR TO TEN YEARS
		*131.087-018	SCREEN WRITER	6 2 6	TWO TO FOUR YEARS
23.0501	CREATIVE WRITING	*131.067-038	PLAYWRIGHT	6 2 6	FOUR TO TEN YEARS
		*131.067-042	POET	6 2 6	TWO TO FOUR YEARS
		*131.067-046	WRITER, PROSE, FICTION AND NONFICTI	6 3 6	FOUR TO TEN YEARS
		*131.087-018	SCREEN WRITER	6 2 6	TWO TO FOUR YEARS
50.0501	DRAMATIC ARTS	*131.067-038	PLAYWRIGHT	6 2 6	FOUR TO TEN YEARS
50.0904	MUSIC THEORY AND COMPOSITION	*131.067-034	LYRICIST	6 2 6	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 3220

DESIGNERS

These people design products used in homes, businesses, and industries. They design all kinds of products, including toys, furniture, cars, clothes, and bank notes. Some plan home and office decorations or design sets for movie, stage, and TV productions. Others arrange flowers to decorate homes, churches, and offices or design ads to display and describe products, events, and services. DESIGNERS may use a variety of tools and equipment, including artist tools, and hand and power equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	142.031-010	ART DIRECTOR	5 3 5	FOUR TO TEN YEARS
		142.061-038	SAFETY-CLOTHING-AND-EQUIPMENT DEVEL	5 3 5	FOUR TO TEN YEARS
		142.061-058	EXHIBIT DESIGNER	5 4 5	TWO TO FOUR YEARS
		761.281-014	EXPERIMENTAL-BOX TESTER	4 3 4	TWO TO FOUR YEARS
01.0603	ORNAMENTAL HORTICULTURE	142.081-010	FLORAL DESIGNER	4 3 3	ONE TO TWO YEARS
04.0501	INTERIOR DESIGN	142.031-014	MANAGER, DISPLAY	5 3 4	TWO TO FOUR YEARS
		142.051-014	INTERIOR DESIGNER	5 3 4	TWO TO FOUR YEARS
		298.081-010	DISPLAYER, MERCHANDISE	4 3 3	ONE TO TWO YEARS
08.0202	DISPLAY	142.031-014	MANAGER, DISPLAY	5 3 4	TWO TO FOUR YEARS
		142.051-010	DISPLAY DESIGNER	5 3 4	TWO TO FOUR YEARS
		298.081-010	DISPLAYER, MERCHANDISE	4 3 3	ONE TO TWO YEARS
		298.381-010	DECORATOR	4 4 3	TWO TO FOUR YEARS
08.0503	FLORISTRY	142.081-010	FLORAL DESIGNER	4 3 3	ONE TO TWO YEARS
09.0201	ADVERTISING	141.067-010	CREATIVE DIRECTOR	5 3 5	FOUR TO TEN YEARS
		141.137-010	PRODUCTION MANAGER, ADVERTISING	4 3 4	TWO TO FOUR YEARS
15.0102	ARCHITECTURAL INTERIOR DESIGN TECHNOLOGY	142.051-014	INTERIOR DESIGNER	5 3 4	TWO TO FOUR YEARS
15.0609	TEXTILE TECHNOLOGY	142.061-014	CLOTH DESIGNER	4 3 4	TWO TO FOUR YEARS
19.0902	FASHION DESIGN	*142.061-014	CLOTH DESIGNER	4 3 4	TWO TO FOUR YEARS
		*142.061-018	CLOTHES DESIGNER	5 3 5	TWO TO FOUR YEARS
		*142.081-014	FUR DESIGNER	4 2 4	TWO TO FOUR YEARS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	142.061-014	CLOTH DESIGNER	4 3 4	TWO TO FOUR YEARS
		142.061-018	CLOTHES DESIGNER	5 3 5	TWO TO FOUR YEARS
		142.081-014	FUR DESIGNER	4 2 4	TWO TO FOUR YEARS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	142.281-010	COPYIST	4 2 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3220 DESIGNERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
20.0306	FASHION/FABRIC COORDINATION	142.061-018	CLOTHES DESIGNER	5	3 5	TWO TO FOUR YEARS
		298.081-010	DISPLAYER, MERCHANDISE	4	3 3	ONE TO TWO YEARS
20.0308	WEDDING/SPECIALTY CONSULTING	298.081-010	DISPLAYER, MERCHANDISE	4	3 3	ONE TO TWO YEARS
20.0504	FLORAL DESIGN	142.081-010	FLORAL DESIGNER	4	3 3	ONE TO TWO YEARS
20.0505	HOME DECORATING	142.031-014	MANAGER, DISPLAY	5	3 4	TWO TO FOUR YEARS
		142.051-014	INTERIOR DESIGNER	5	3 4	TWO TO FOUR YEARS
		298.081-010	DISPLAYER, MERCHANDISE	4	3 3	ONE TO TWO YEARS
25.0501	MUSEOLOGY	*142.061-058	EXHIBIT DESIGNER	5	4 5	TWO TO FOUR YEARS
48.0203	COMMERCIAL ART	141.031-010	ART DIRECTOR	5	3 5	FOUR TO TEN YEARS
		141.061-018	GRAPHIC DESIGNER	5	3 4	TWO TO FOUR YEARS
		141.067-010	CREATIVE DIRECTOR	5	3 5	FOUR TO TEN YEARS
		141.081-014	COMMERCIAL DESIGNER	5	3 4	TWO TO FOUR YEARS
		142.061-010	BANK-NOTE DESIGNER	4	3 4	FOUR TO TEN YEARS
		142.061-014	CLOTH DESIGNER	4	3 4	TWO TO FOUR YEARS
		142.061-018	CLOTHES DESIGNER	5	3 5	TWO TO FOUR YEARS
		142.061-022	FURNITURE DESIGNER	5	4 4	TWO TO FOUR YEARS
		142.061-026	INDUSTRIAL DESIGNER	5	4 4	TWO TO FOUR YEARS
		142.061-034	ORNAMENTAL-METALWORK DESIGNER	5	4 4	FOUR TO TEN YEARS
		142.061-042	SET DECORATOR	5	2 4	FOUR TO TEN YEARS
		142.061-046	SET DESIGNER	5	3 4	FOUR TO TEN YEARS
		142.061-050	SET DESIGNER	5	3 4	FOUR TO TEN YEARS
		142.061-054	STAINED GLASS ARTIST	5	3 4	FOUR TO TEN YEARS
		142.081-014	FUR DESIGNER	4	2 4	TWO TO FOUR YEARS
		142.081-018	PACKAGE DESIGNER	5	3 4	TWO TO FOUR YEARS
		142.281-010	COPYIST	4	2 4	ONE TO TWO YEARS
50.0204	FIBER/TEXTILES/WEAVING	*142.061-014	CLOTH DESIGNER	4	3 4	TWO TO FOUR YEARS
		*142.061-018	CLOTHES DESIGNER	5	3 5	TWO TO FOUR YEARS
		*142.081-014	FUR DESIGNER	4	2 4	TWO TO FOUR YEARS
50.0205	GLASS	*142.061-054	STAINED GLASS ARTIST	5	3 4	FOUR TO TEN YEARS
50.0206	METAL/JEWELRY	*142.061-034	ORNAMENTAL-METALWORK DESIGNER	5	4 4	FOUR TO TEN YEARS
50.0402	GRAPHIC DESIGN	*141.031-010	ART DIRECTOR	5	3 5	FOUR TO TEN YEARS
		*141.061-018	GRAPHIC DESIGNER	5	3 4	TWO TO FOUR YEARS

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OCCUPATION: 3220 DESIGNERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*141.067-010	CREATIVE DIRECTOR	5 3 5	FOUR TO TEN YEARS
		*142.281-010	COPYIST	4 2 4	ONE TO TWO YEARS
50.0403	ILLUSTRATION DESIGN	*141.031-010	ART DIRECTOR	5 3 5	FOUR TO TEN YEARS
		*141.061-018	GRAPHIC DESIGNER	5 3 4	TWO TO FOUR YEARS
		*141.067-010	CREATIVE DIRECTOR	5 3 5	FOUR TO TEN YEARS
		*141.081-014	COMMERCIAL DESIGNER	5 3 4	TWO TO FOUR YEARS
		*142.281-010	COPYIST	4 2 4	ONE TO TWO YEARS
50.0404	INDUSTRIAL DESIGN	*142.051-014	INTERIOR DESIGNER	5 3 4	TWO TO FOUR YEARS
		*142.061-022	FURNITURE DESIGNER	5 4 4	TWO TO FOUR YEARS
		*142.061-026	INDUSTRIAL DESIGNER	5 4 4	TWO TO FOUR YEARS
		*142.081-018	PACKAGE DESIGNER	5 3 4	TWO TO FOUR YEARS
50.0405	THEATER DESIGN	*142.031-010	ART DIRECTOR	5 3 5	FOUR TO TEN YEARS
		*142.061-042	SET DECORATOR	5 2 4	FOUR TO TEN YEARS
		*142.061-046	SET DESIGNER	5 3 4	FOUR TO TEN YEARS
		*142.061-050	SET DESIGNER	5 3 4	FOUR TO TEN YEARS
50.0602	CINEMATOGRAPHY/FILM	*142.031-010	ART DIRECTOR	5 3 5	FOUR TO TEN YEARS
50.0705	DRAWING	*142.281-010	COPYIST	4 2 4	ONE TO TWO YEARS
50.0710	PRINTMAKING	*141.061-018	GRAPHIC DESIGNER	5 3 4	TWO TO FOUR YEARS
		*141.081-014	COMMERCIAL DESIGNER	5 3 4	TWO TO FOUR YEARS

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OCCUPATION: 3230

MUSICIANS AND COMPOSERS

People in these jobs write, arrange, sing to, play, or direct music. They usually specialize in either popular or classical music. They may play a musical instrument, or direct a symphony or choral group. Some sing before audiences or on records. Others compose music for movies, operas, ballets, and symphony orchestras. MUSICIANS may work alone or as part of a band, rock group, or some other musical group. They may perform on radio, or stage or in TV or movie productions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-					
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING	TIME	
00.0000	NO CIP ASSIGNED	152.041-010	MUSICIAN, INSTRUMENTAL	5	3	3	FOUR	TO	TEN YEARS
		152.047-010	CHORAL DIRECTOR	5	3	5	FOUR	TO	TEN YEARS
		152.047-014	CONDUCTOR, ORCHESTRA	5	3	3	OVER	10	YEARS
		152.047-018	DIRECTOR, MUSIC	5	4	5	OVER	10	YEARS
		152.047-022	SINGER	4	3	4	FOUR	TO	TEN YEARS
		152.067-010	ARRANGER	6	4	5	FOUR	TO	TEN YEARS
		152.067-014	COMPOSER	6	4	6	OVER	10	YEARS
		152.067-018	CUE SELECTOR	6	4	5	OVER	10	YEARS
		152.067-022	ORCHESTRATOR	6	4	5	FOUR	TO	TEN YEARS
		152.267-010	COPYIST	5	3	5	TWO	TO	FOUR YEARS
		152.367-010	PROMPTER	4	3	4	TWO	TO	FOUR YEARS
39.0501	RELIGIOUS MUSIC	*152.041-010	MUSICIAN, INSTRUMENTAL	5	3	3	FOUR	TO	TEN YEARS
		*152.047-010	CHORAL DIRECTOR	5	3	5	FOUR	TO	TEN YEARS
		*152.047-022	SINGER	4	3	4	FOUR	TO	TEN YEARS
		*152.067-010	ARRANGER	6	4	5	FOUR	TO	TEN YEARS
50.0903	MUSIC PERFORMANCE	*152.041-010	MUSICIAN, INSTRUMENTAL	5	3	3	FOUR	TO	TEN YEARS
		*152.047-010	CHORAL DIRECTOR	5	3	5	FOUR	TO	TEN YEARS
		*152.047-014	CONDUCTOR, ORCHESTRA	5	3	3	OVER	10	YEARS
		*152.047-018	DIRECTOR, MUSIC	5	4	5	OVER	10	YEARS
		*152.047-022	SINGER	4	3	4	FOUR	TO	TEN YEARS
		*152.067-010	ARRANGER	6	4	5	FOUR	TO	TEN YEARS
		*152.067-014	COMPOSER	6	4	6	OVER	10	YEARS
		*152.067-018	CUE SELECTOR	6	4	5	OVER	10	YEARS
		*152.067-022	ORCHESTRATOR	6	4	5	FOUR	TO	TEN YEARS
		*152.267-010	COPYIST	5	3	5	TWO	TO	FOUR YEARS
		*152.367-010	PROMPTER	4	3	4	TWO	TO	FOUR YEARS
50.0904	MUSIC THEORY AND COMPOSITION	*152.067-010	ARRANGER	6	4	5	FOUR	TO	TEN YEARS
		*152.067-014	COMPOSER	6	4	6	OVER	10	YEARS
		*152.067-022	ORCHESTRATOR	6	4	5	FOUR	TO	TEN YEARS

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OCCUPATION: 3240

ACTORS AND DIRECTORS

People in these jobs work in stage, movie, TV, radio, and other productions. Some act out parts or roles to entertain, inform, or instruct audiences. Others direct or produce stage or screen production. New ACTORS and ACTRESSES often start in 'bit' parts where they speak only a few lines. They may progress to larger supporting roles, but only a few become well-known stars. DIRECTORS plan and supervise radio, TV, movie, and screen production. PRODUCERS select scripts, control finances, and handle other production problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	150.027-010	DRAMATIC COACH	5 2 5	TWO TO FOUR YEARS
		150.047-010	ACTOR	5 2 5	TWO TO FOUR YEARS
		150.067-010	DIRECTOR, STAGE	5 3 5	FOUR TO TEN YEARS
		150.147-010	NARRATOR	5 2 5	SIX TO 12 MONTHS
		159.067-010	DIRECTOR, MOTION PICTURE	5 4 5	FOUR TO TEN YEARS
		159.067-014	DIRECTOR, TELEVISION	5 4 5	FOUR TO TEN YEARS
		159.117-010	PRODUCER	6 4 6	FOUR TO TEN YEARS
		159.167-014	DIRECTOR, RADIO	4 3 4	ONE TO TWO YEARS
		159.167-018	MANAGER, STAGE	4 3 4	TWO TO FOUR YEARS
		159.267-010	DIRECTOR, CASTING	5 3 4	TWO TO FOUR YEARS
		159.647-014	EXTRA	2 2 2	UP TO 30 DAYS
		184.117-010	DIRECTOR, PUBLIC SERVICE	5 4 5	FOUR TO TEN YEARS
		184.167-014	DIRECTOR, NEWS	5 3 5	FOUR TO TEN YEARS
		184.167-022	DIRECTOR, OPERATIONS, BROADCAST	5 3 5	FOUR TO TEN YEARS
		184.167-030	DIRECTOR, PROGRAM	5 4 5	FOUR TO TEN YEARS
		184.167-034	DIRECTOR, SPORTS	5 4 5	FOUR TO TEN YEARS
		184.167-074	MANAGER, PRODUCTION	5 4 4	TWO TO FOUR YEARS
		187.167-174	PRODUCER	6 5 6	FOUR TO TEN YEARS
		187.167-182	PRODUCER, ASSISTANT	5 5 5	TWO TO FOUR YEARS
		961.364-010	DOUBLE	3 1 2	30 TO 90 DAYS
06.0703	RESORT MANAGEMENT	187.167-178	PRODUCER	5 4 5	TWO TO FOUR YEARS
09.0401	JOURNALISM (MASS COMMUNICATIONS)	*184.117-010	DIRECTOR, PUBLIC SERVICE	5 4 5	FOUR TO TEN YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*184.167-014	DIRECTOR, NEWS	5 3 5	FOUR TO TEN YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROA	962.167-014	PROGRAM ASSISTANT	4 2 3	SIX TO 12 MONTHS
		962.167-018	PROPERTY COORDINATOR	4 1 3	TWO TO FOUR YEARS
10.0106	VIDEO TECHNOLOGY	159.067-014	DIRECTOR, TELEVISION	5 4 5	FOUR TO TEN YEARS
50.0501	DRAMATIC ARTS	*150.027-010	DRAMATIC COACH	5 2 5	TWO TO FOUR YEARS

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OCCUPATION: 3240 ACTORS AND DIRECTORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*150.047-010	ACTOR	5 2 5	TWO TO FOUR YEARS
		*150.067-010	DIRECTOR, STAGE	5 3 5	FOUR TO TEN YEARS
		*150.147-010	NARRATOR	5 2 5	SIX TO 12 MONTHS
		*159.067-010	DIRECTOR, MOTION PICTURE	5 4 5	FOUR TO TEN YEARS
		*159.067-014	DIRECTOR, TELEVISION	5 4 5	FOUR TO TEN YEARS
		*159.167-018	MANAGER, STAGE	4 3 4	TWO TO FOUR YEARS
		*159.267-010	DIRECTOR, CASTING	5 3 4	TWO TO FOUR YEARS
		*159.647-014	EXTRA	2 2 2	UP TO 30 DAYS
50.0602	CINEMATOGRAPHY/FILM	*159.067-010	DIRECTOR, MOTION PICTURE	5 4 5	FOUR TO TEN YEARS
50.0606	VIDEO	*159.067-014	DIRECTOR, TELEVISION	5 4 5	FOUR TO TEN YEARS
		*159.117-010	PRODUCER	6 4 6	FOUR TO TEN YEARS

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OCCUPATION: 3250

PAINTERS, SCULPTORS, CRAFT-ARTISTS, AND ARTIST-PRINTMAKERS

These people create, copy, or restore paintings, drawings, sculpture, and other art works. They may create art works or designs for use in business or industry or for use as decorations. Their duties range from designing and constructing movie scenery to creating original paintings or sculptures. They may create designs to illustrate books, advertise products, or show medical procedures. They use a variety of artist tools and materials. In some cases, they use power tools and machinery as well.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	102.261-014	PAINTINGS RESTORER	5 4 4	FOUR TO TEN YEARS
		144.061-010	PAINTER	5 2 4	FOUR TO TEN YEARS
		144.061-014	PRINTMAKER	5 2 4	FOUR TO TEN YEARS
		144.061-018	SCULPTOR	5 3 4	FOUR TO TEN YEARS
		149.041-010	QUICK SKETCH ARTIST	5 1 3	ONE TO TWO YEARS
		149.261-010	EXHIBIT ARTIST	5 3 4	ONE TO TWO YEARS
		777.081-010	MODELER	4 4 4	SIX TO 12 MONTHS
		777.281-010	CONCRETE SCULPTOR	4 2 2	TWO TO FOUR YEARS
04.0501	INTERIOR DESIGN	141.051-010	COLOR EXPERT	5 2 4	TWO TO FOUR YEARS
17.0504	MEDICAL ILLUSTRATING	141.061-026	ILLUSTRATOR, MEDICAL AND SCIENTIFIC	5 4 5	TWO TO FOUR YEARS
19.0902	FASHION DESIGN	*141.061-014	FASHION ARTIST	5 2 4	TWO TO FOUR YEARS
20.0306	FASHION/FABRIC COORDINATION	141.061-014	FASHION ARTIST	5 2 4	TWO TO FOUR YEARS
20.0505	HOME DECORATING	141.051-010	COLOR EXPERT	5 2 4	TWO TO FOUR YEARS
48.0203	COMMERCIAL ART	141.051-010	COLOR EXPERT	5 2 4	TWO TO FOUR YEARS
		141.061-010	CARTOONIST	5 2 4	TWO TO FOUR YEARS
		141.061-014	FASHION ARTIST	5 2 4	TWO TO FOUR YEARS
		141.061-022	ILLUSTRATOR	5 2 4	TWO TO FOUR YEARS
		141.061-026	ILLUSTRATOR, MEDICAL AND SCIENTIFIC	5 4 5	TWO TO FOUR YEARS
		141.061-030	ILLUSTRATOR, SET	5 3 4	FOUR TO TEN YEARS
		141.081-010	CARTOONIST, MOTION PICTURES	5 2 4	TWO TO FOUR YEARS
		142.061-030	MEMORIAL DESIGNER	4 4 3	TWO TO FOUR YEARS
50.0204	FIBER/TEXTILES/WEAVING	*144.061-018	SCULPTOR	5 3 4	FOUR TO TEN YEARS
50.0402	GRAPHIC DESIGN	*141.051-010	COLOR EXPERT	5 2 4	TWO TO FOUR YEARS
		*141.061-014	FASHION ARTIST	5 2 4	TWO TO FOUR YEARS
		*141.061-022	ILLUSTRATOR	5 2 4	TWO TO FOUR YEARS
		*141.061-026	ILLUSTRATOR, MEDICAL AND SCIENTIFIC	5 4 5	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 3250 PAINTERS, SCULPTORS, CRAFT-ARTISTS AND ARTIST-PRINT (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
	*141.061-030 ILLUSTRATOR, SET	5 3 4 FOUR TO TEN YEARS
	*144.061-014 PRINTMAKER	5 2 4 FOUR TO TEN YEARS
50.0403 ILLUSTRATION DESIGN	*141.051-010 COLOR EXPERT	5 2 4 TWO TO FOUR YEARS
	*141.061-014 FASHION ARTIST	5 2 4 TWO TO FOUR YEARS
	*141.061-022 ILLUSTRATOR	5 2 4 TWO TO FOUR YEARS
	*141.061-026 ILLUSTRATOR, MEDICAL AND SCIENTIFIC	5 4 5 TWO TO FOUR YEARS
	*141.061-030 ILLUSTRATOR, SET	5 3 4 FOUR TO TEN YEARS
	*144.061-014 PRINTMAKER	5 2 4 FOUR TO TEN YEARS
50.0405 THEATER DESIGN	*141.061-030 ILLUSTRATOR, SET	5 3 4 FOUR TO TEN YEARS
50.0602 CINEMATOGRAPHY/FILM	*141.061-030 ILLUSTRATOR, SET	5 3 4 FOUR TO TEN YEARS
	*141.081-010 CARTOONIST, MOTION PICTURES	5 2 4 TWO TO FOUR YEARS
50.0603 FILM ANIMATION	*141.081-010 CARTOONIST, MOTION PICTURES	5 2 4 TWO TO FOUR YEARS
50.0702 ART CONSERVATION	*102.261-014 PAINTINGS RESTORER	5 4 4 FOUR TO TEN YEARS
50.0705 DRAWING	*141.061-010 CARTOONIST	5 2 4 TWO TO FOUR YEARS
	*141.061-014 FASHION ARTIST	5 2 4 TWO TO FOUR YEARS
	*141.061-022 ILLUSTRATOR	5 2 4 TWO TO FOUR YEARS
	*141.061-026 ILLUSTRATOR, MEDICAL AND SCIENTIFIC	5 4 5 TWO TO FOUR YEARS
	*141.061-030 ILLUSTRATOR, SET	5 3 4 FOUR TO TEN YEARS
	*141.081-010 CARTOONIST, MOTION PICTURES	5 2 4 TWO TO FOUR YEARS
	*149.041-010 QUICK SKETCH ARTIST	5 1 3 ONE TO TWO YEARS
50.0708 PAINTING	*144.061-010 PAINTER	5 2 4 FOUR TO TEN YEARS
50.0709 SCULPTURE	*142.061-030 MEMORIAL DESIGNER	4 4 3 TWO TO FOUR YEARS
	*144.061-018 SCULPTOR	5 3 4 FOUR TO TEN YEARS
50.0710 PRINTMAKING	*144.061-014 PRINTMAKER	5 2 4 FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 3260

PHOTOGRAPHERS

PHOTOGRAPHERS use still and motion-picture cameras to portray things, people, places, and events. They use a variety of cameras and lenses and many types of film. They may use special lighting equipment, such as flash units, floodlights and reflectors. Some develop and print their own photographs and enlarge and otherwise change filmed images. Many specialize in a certain type of photography, such as portrait, commercial, or industrial work. Some cover weddings and other events.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	143.062-010	DIRECTOR OF PHOTOGRAPHY	5 4 4	FOUR TO TEN YEARS
09.0401	JOURNALISM (MASS COMMUNICATIONS)	*143.062-034	PHOTOJOURNALIST	4 2 4	TWO TO FOUR YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*143.062-022	PHOTOGRAPHER, MOTION PICTURE	4 3 4	TWO TO FOUR YEARS
10.0102	MOTION PICTURE TECHNOLOGY	143.260-010	OPTICAL-EFFECTS-CAMERA OPERATOR	4 3 3	TWO TO FOUR YEARS
10.0103	PHOTOGRAPHIC TECHNOLOGY	143.382-010	CAMERA OPERATOR, ANIMATION	4 3 3	ONE TO TWO YEARS
10.0106	VIDEO TECHNOLOGY	*143.062-010	DIRECTOR OF PHOTOGRAPHY	5 4 4	FOUR TO TEN YEARS
		*143.062-022	PHOTOGRAPHER, MOTION PICTURE	4 3 4	TWO TO FOUR YEARS
48.0204	COMMERCIAL PHOTOGRAPHY	143.062-014	PHOTOGRAPHER, AERIAL	4 3 3	TWO TO FOUR YEARS
		143.062-018	PHOTOGRAPHER, APPRENTICE	4 3 4	TWO TO FOUR YEARS
		143.062-022	PHOTOGRAPHER, MOTION PICTURE	4 3 4	TWO TO FOUR YEARS
		143.062-026	PHOTOGRAPHER, SCIENTIFIC	4 3 4	TWO TO FOUR YEARS
		143.062-030	PHOTOGRAPHER, STILL	4 3 4	TWO TO FOUR YEARS
		143.062-034	PHOTOJOURNALIST	4 2 4	TWO TO FOUR YEARS
		143.362-010	BIOLOGICAL PHOTOGRAPHER	4 3 3	ONE TO TWO YEARS
		143.382-010	CAMERA OPERATOR, ANIMATION	4 3 3	ONE TO TWO YEARS
		143.382-014	PHOTOGRAPHER, FINISH	4 2 3	ONE TO TWO YEARS
		143.457-010	PHOTOGRAPHER	3 1 3	30 TO 90 DAYS
50.0602	CINEMATOGRAPHY/FILM	*143.062-010	DIRECTOR OF PHOTOGRAPHY	5 4 4	FOUR TO TEN YEARS
		*143.062-022	PHOTOGRAPHER, MOTION PICTURE	4 3 4	TWO TO FOUR YEARS
		*143.260-010	OPTICAL-EFFECTS-CAMERA OPERATOR	4 3 3	TWO TO FOUR YEARS
		*143.382-010	CAMERA OPERATOR, ANIMATION	4 3 3	ONE TO TWO YEARS
50.0603	FILM ANIMATION	*143.260-010	OPTICAL-EFFECTS-CAMERA OPERATOR	4 3 3	TWO TO FOUR YEARS
		*143.382-010	CAMERA OPERATOR, ANIMATION	4 3 3	ONE TO TWO YEARS
50.0604	HOLOGRAPHY	*143.260-010	OPTICAL-EFFECTS-CAMERA OPERATOR	4 3 3	TWO TO FOUR YEARS
50.0605	PHOTOGRAPHY	*143.062-010	DIRECTOR OF PHOTOGRAPHY	5 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3260 PHOTOGRAPHERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*143.062-014	PHOTOGRAPHER, AERIAL	4 3 3	TWO TO FOUR YEARS
		*143.062-018	PHOTOGRAPHER, APPRENTICE	4 3 4	TWO TO FOUR YEARS
		*143.062-022	PHOTOGRAPHER, MOTION PICTURE	4 3 4	TWO TO FOUR YEARS
		*143.062-026	PHOTOGRAPHER, SCIENTIFIC	4 3 4	TWO TO FOUR YEARS
		*143.062-030	PHOTOGRAPHER, STILL	4 3 4	TWO TO FOUR YEARS
		*143.062-034	PHOTOJOURNALIST	4 2 4	TWO TO FOUR YEARS
		*143.260-010	OPTICAL-EFFECTS-CAMERA OPERATOR	4 3 3	TWO TO FOUR YEARS
		*143.362-010	BIOLOGICAL PHOTOGRAPHER	4 3 3	ONE TO TWO YEARS
		*143.382-010	CAMERA OPERATOR, ANIMATION	4 3 3	ONE TO TWO YEARS
50.0606	VIDEO	*143.062-010	DIRECTOR OF PHOTOGRAPHY	5 4 4	FOUR TO TEN YEARS
		*143.062-034	PHOTOJOURNALIST	4 2 4	TWO TO FOUR YEARS

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OCCUPATION: 3270

DANCERS

DANCERS make up and perform dances. They use movements to interpret an idea or a story, or to express rhythm and sound. They may perform in ballets, in dance routines in musical shows, in folk and jazz dances, or in other kinds of dancing. They may dance in a group, with a partner, or by themselves. They may act or sing as well as dance in movie, opera, or TV shows. Many DANCERS combine stagework with teaching. Some become CHOREOGRAPHERS, who create new dances, teach them to performers and sometimes direct and stage dance routines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	151.027-010	CHOREOGRAPHER	5 3 5 FOUR TO TEN YEARS
		151.047-010	DANCER	4 2 4 TWO TO FOUR YEARS
50.0301	DANCE	*151.027-010	CHOREOGRAPHER	5 3 5 FOUR TO TEN YEARS
		*151.047-010	DANCER	4 2 4 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IGWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3280

PERFORMERS, N.E.C.

These people perform feats to amaze and entertain audiences in a variety of settings, including circuses, rodeos, fairs, water shows, and amusement parks. For example, some do magic tricks, operate puppets, or dress up as clowns. Some tell fortunes or read horoscopes. Some work as jugglers, snake charmers, or fire eaters. Some perform stunts for movie or TV productions. Some train animals to do clever tricks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	159.041-010	MAGICIAN	4 3 4	ONE TO TWO YEARS
		159.041-014	PUPPETEER	5 3 5	FOUR TO TEN YEARS
		159.042-010	LASERIST	5 3 4	ONE TO TWO YEARS
		159.044-010	VENTRILOQUIST	4 2 4	TWO TO FOUR YEARS
		159.047-010	CLOWN	4 2 3	ONE TO TWO YEARS
		159.047-014	COMEDIAN	5 2 4	SIX TO 12 MONTHS
		159.047-018	IMPERSONATOR	4 2 4	ONE TO TWO YEARS
		159.047-022	MIME	5 2 3	TWO TO FOUR YEARS
		159.167-010	ARTIST AND REPERTOIRE MANAGER	4 3 4	TWO TO FOUR YEARS
		159.207-010	ASTROLOGER	4 4 4	THREE TO SIX MONTHS
		159.247-010	ACROBAT	3 2 2	SIX TO 12 MONTHS
		159.247-014	AERIALIST	3 2 2	ONE TO TWO YEARS
		159.247-018	GRAPHOLOGIST	3 3 3	THREE TO SIX MONTHS
		159.341-010	JUGGLER	3 2 2	ONE TO TWO YEARS
		159.341-014	STUNT PERFORMER	3 3 3	ONE TO TWO YEARS
		159.347-014	AQUATIC PERFORMER	3 3 3	SIX TO 12 MONTHS
		159.347-018	THRILL PERFORMER	3 2 2	SIX TO 12 MONTHS
		159.347-022	WIRE WALKER	3 2 1	ONE TO TWO YEARS
		159.367-010	RING CONDUCTOR	4 2 4	ONE TO TWO YEARS
		159.647-010	AMUSEMENT PARK ENTERTAINER	2 2 2	UP TO 30 DAYS
		159.647-018	PSYCHIC READER	3 2 3	30 TO 90 DAYS
		159.647-022	SHOW GIRL	2 1 1	UP TO 30 DAYS
		349.247-010	DIVER	3 2 3	THREE TO SIX MONTHS
		961.667-014	STAND-IN	2 1 1	UP TO 30 DAYS
01.0505	ANIMAL TRAINING	159.224-010	ANIMAL TRAINER	4 3 4	ONE TO TWO YEARS
		159.344-010	EQUESTRIAN	3 3 1	ONE TO TWO YEARS
		159.344-014	RODEO PERFORMER	3 2 3	SIX TO 12 MONTHS
		159.344-018	SHOW-HORSE DRIVER	3 2 2	SIX TO 12 MONTHS
01.0507	HORSE HANDLING AND CARE	159.224-010	ANIMAL TRAINER	4 3 4	ONE TO TWO YEARS
		*159.344-010	EQUESTRIAN	3 3 1	ONE TO TWO YEARS
		*159.344-014	RODEO PERFORMER	3 2 3	SIX TO 12 MONTHS
		*159.344-018	SHOW-HORSE DRIVER	3 2 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 3280 PERFORMERS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
50.0501	DRAMATIC ARTS	*159.041-010	MAGICIAN	4 3 4	ONE TO TWO YEARS
		*159.041-014	PUPPETEER	5 3 5	FOUR TO TEN YEARS
		*159.044-010	VENTRILQUIST	4 2 4	TWO TO FOUR YEARS
		*159.047-010	CLOWN	4 2 3	ONE TO TWO YEARS
		*159.047-014	COMEDIAN	5 2 4	SIX TO 12 MONTHS
		*159.047-018	IMPERSONATOR	4 2 4	ONE TO TWO YEARS
		*159.047-022	MIME	5 2 3	TWO TO FOUR YEARS
50.0604	HOLOGRAPHY	*159.042-010	LASERIST	5 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3290

WRITERS, ARTISTS, AND RELATED WORKERS, N.E.C.

These people use their artistic and creative skills to devise materials to entertain or inform people. For example, some write scripts for comedy shows or funny things for performers to say on stage. Some compose texts for operas by fitting words to music. Some create crossword puzzles. Some create scenery used in movie or TV productions. Some prepare drawings used in furniture making.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	131.067-026	HUMORIST	6 2 6	FOUR TO TEN YEARS
		131.067-030	LIBRETTIST	6 2 6	TWO TO FOUR YEARS
		137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		137.267-014	INTERPRETER, DEAF	4 3 4	SIX TO 12 MONTHS
		137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS
		139.087-010	CROSSWORD-PUZZLE MAKER	5 2 5	ONE TO TWO YEARS
		149.031-010	SUPERVISOR, SCENIC ARTS	5 1 4	FOUR TO TEN YEARS
		149.051-010	SILHOUETTE ARTIST	5 1 3	ONE TO TWO YEARS
10.0101	EDUCATIONAL MEDIA TECHNOLOGY	149.061-010	AUDIOVISUAL PRODUCTION SPECIALIST	6 4 5	TWO TO FOUR YEARS
16.0101	FOREIGN LANGUAGES, MULTIPLE EMPHASIS	*137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS
16.0201	AFRICAN (NON-SEMITIC) LANGUAGES	*137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS
16.0301	CHINESE	*137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS
16.0302	JAPANESE	*137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS
16.0402	RUSSIAN	*137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS
16.0403	SLAVIC LANGUAGES (OTHER THAN RUSSIAN)	*137.137-010	DIRECTOR, TRANSLATION	5 3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6	TWO TO FOUR YEARS

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OCCUPATION: 3290 WRITERS, ARTISTS, AND RELATED WORKERS; NOT ELSEWHERE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
16.0501	GERMAN	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0502	SCANDINAVIAN LANGUAGES	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0601	GREEK (CLASSICAL)	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0703	INDIC LANGUAGES	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0901	FRENCH	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0902	ITALIAN	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0903	LATIN	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0904	PORTUGUESE	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.0905	SPANISH	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.1001	NATIVE AMERICAN LANGUAGES	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS
16.1101	ARABIC	*137.137-010	DIRECTOR, TRANSLATION	5	3 5	FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5	2 5	ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6	3 6	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3290 WRITERS, ARTISTS, AND RELATED WORKERS; NOT ELSEWHERE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
16.1102	HEBREW	*137.137-010	DIRECTOR, TRANSLATION	5 3 5 FOUR TO TEN YEARS
		*137.267-010	INTERPRETER	5 2 5 ONE TO TWO YEARS
		*137.267-018	TRANSLATOR	6 3 6 TWO TO FOUR YEARS
17.0410	SIGN LANGUAGE INTERPRETING	*137.267-014	INTERPRETER, DEAF	4 3 4 SIX TO 12 MONTHS
23.0101	ENGLISH, GENERAL	*131.067-026	HUMORIST	6 2 6 FOUR TO TEN YEARS
23.0501	CREATIVE WRITING	*131.067-026	HUMORIST	6 2 6 FOUR TO TEN YEARS
39.0101	BIBLICAL LANGUAGES	*137.137-010	DIRECTOR, TRANSLATION	5 3 5 FOUR TO TEN YEARS
		*137.267-018	TRANSLATOR	6 3 6 TWO TO FOUR YEARS
48.0702	FURNITURE MAKING	149.281-010	FURNITURE REPRODUCER	5 3 4 TWO TO FOUR YEARS
50.0606	VIDEO	*149.061-010	AUDIOVISUAL PRODUCTION SPECIALIST	6 4 5 TWO TO FOUR YEARS
50.0705	DRAWING	*149.051-010	SILHOUETTE ARTIST	5 1 3 ONE TO TWO YEARS
50.0904	MUSIC THEORY AND COMPOSITION	*131.067-030	LIBRETTIST	6 2 6 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 3300

EDITORS, REPORTERS, PUBLIC RELATIONS SPECIALISTS, AND ANNOUNCERS

Editors, reporters, public relations specialists, and announcers are concerned with insuring that written and spoken information are communicated clearly and accurately. They may be responsible for seeing that published work is accurate and well-written, that facts or events are accurately and quickly reported, that a company or group is properly represented to the public, or that news, sports, or entertainment events are properly reported to audiences.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3310

EDITORS AND REPORTERS

Editors and reporters insure that information or events are published or reported accurately and quickly. They may check news stories, fiction, and non-fiction for accuracy, writing style, grammar, and printing errors. They make necessary changes and approve final copy for publication or broadcast.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3312

EDITORS

EDITORS coordinate the work of writers and edit writers' material. They direct and perform editorial activities for newspapers, movie or TV studios, publishing companies, and similar organizations. They hire, assign, and supervise staff who write articles, reports, editorials, reviews, and other material. They may supervise workers who gather and edit local news, photograph news events, prepare scripts, or revise material to be published.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	131.267-022	SCRIPT READER	4	2	4	ONE TO TWO YEARS
		132.017-010	EDITOR, MANAGING, NEWSPAPER	6	3	6	FOUR TO TEN YEARS
		132.017-014	EDITOR, NEWSPAPER	6	3	6	OVER 10 YEARS
		132.017-018	EDITOR, TECHNICAL AND SCIENTIFIC PU	6	3	6	OVER 10 YEARS
		132.037-010	CONTINUITY DIRECTOR	5	2	5	FOUR TO TEN YEARS
		132.037-014	EDITOR, CITY	6	3	6	FOUR TO TEN YEARS
		132.037-018	EDITOR, DEPARTMENT	5	3	5	FOUR TO TEN YEARS
		132.037-022	EDITOR, PUBLICATIONS	6	3	6	FOUR TO TEN YEARS
		132.037-026	STORY EDITOR	6	2	6	FOUR TO TEN YEARS
		132.067-010	BUREAU CHIEF	5	3	5	FOUR TO TEN YEARS
		132.067-014	EDITOR, BOOK	6	3	6	FOUR TO TEN YEARS
		132.067-018	EDITOR, DICTIONARY	6	3	6	FOUR TO TEN YEARS
		132.067-022	EDITOR, GREETING CARD	5	2	5	ONE TO TWO YEARS
		132.067-026	EDITOR, NEWS	5	3	5	FOUR TO TEN YEARS
		132.137-010	ASSIGNMENT EDITOR	5	2	5	FOUR TO TEN YEARS
		132.267-010	EDITOR, TELEGRAPH	4	3	4	TWO TO FOUR YEARS
		132.267-014	EDITORIAL ASSISTANT	5	3	5	TWO TO FOUR YEARS
		132.367-010	EDITOR, INDEX	5	3	5	TWO TO FOUR YEARS
09.0401	JOURNALISM (MASS COMMUNICATIONS)	*132.017-010	EDITOR, MANAGING, NEWSPAPER	6	3	6	FOUR TO TEN YEARS
		*132.017-014	EDITOR, NEWSPAPER	6	3	6	OVER 10 YEARS
		*132.017-018	EDITOR, TECHNICAL AND SCIENTIFIC PU	6	3	6	OVER 10 YEARS
		*132.037-010	CONTINUITY DIRECTOR	5	2	5	FOUR TO TEN YEARS
		*132.037-014	EDITOR, CITY	6	3	6	FOUR TO TEN YEARS
		*132.037-018	EDITOR, DEPARTMENT	5	3	5	FOUR TO TEN YEARS
		*132.037-022	EDITOR, PUBLICATIONS	6	3	6	FOUR TO TEN YEARS
		*132.037-026	STORY EDITOR	6	2	6	FOUR TO TEN YEARS
		*132.067-010	BUREAU CHIEF	5	3	5	FOUR TO TEN YEARS
		*132.067-018	EDITOR, DICTIONARY	6	3	6	FOUR TO TEN YEARS
		*132.067-022	EDITOR, GREETING CARD	5	2	5	ONE TO TWO YEARS
		*132.067-026	EDITOR, NEWS	5	3	5	FOUR TO TEN YEARS
		*132.137-010	ASSIGNMENT EDITOR	5	2	5	FOUR TO TEN YEARS
		*132.267-010	EDITOR, TELEGRAPH	4	3	4	TWO TO FOUR YEARS
		*132.267-014	EDITORIAL ASSISTANT	5	3	5	TWO TO FOUR YEARS

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OCCUPATION: 3312 EDITORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
10.0102	MOTION PICTURE TECHNOLOGY	962.264-010	EDITOR, FILM	5 2 4	FOUR TO TEN YEARS
10.0103	PHOTOGRAPHIC TECHNOLOGY	962.264-010	EDITOR, FILM	5 2 4	FOUR TO TEN YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROA	962.264-010	EDITOR, FILM	5 2 4	FOUR TO TEN YEARS
10.0106	VIDEO TECHNOLOGY	*962.264-010	EDITOR, FILM	5 2 4	FOUR TO TEN YEARS
23.0101	ENGLISH, GENERAL	*131.267-022	SCRIPT READER	4 2 4	ONE TO TWO YEARS
		*132.037-022	EDITOR, PUBLICATIONS	6 3 6	FOUR TO TEN YEARS
		*132.037-026	STORY EDITOR	6 2 6	FOUR TO TEN YEARS
		*132.067-014	EDITOR, BOOK	6 3 6	FOUR TO TEN YEARS
		*132.067-022	EDITOR, GREETING CARD	5 2 5	ONE TO TWO YEARS
23.0501	CREATIVE WRITING	*131.267-022	SCRIPT READER	4 2 4	ONE TO TWO YEARS
		*132.037-022	EDITOR, PUBLICATIONS	6 3 6	FOUR TO TEN YEARS
		*132.037-026	STORY EDITOR	6 2 6	FOUR TO TEN YEARS
		*132.067-014	EDITOR, BOOK	6 3 6	FOUR TO TEN YEARS
		*132.067-022	EDITOR, GREETING CARD	5 2 5	ONE TO TWO YEARS
23.1101	TECHNICAL AND BUSINESS WRITING	*132.017-018	EDITOR, TECHNICAL AND SCIENTIFIC PU	6 3 6	OVER 10 YEARS

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OCCUPATION: 3313

REPORTERS

REPORTERS collect and analyze facts about news events and report or write stories about them. They may prepare news stories for publication in a newspaper or for broadcasting on radio or TV. Many REPORTERS specialize in particular subject areas, such as sports, politics, foreign affairs, fashion, or religion. Some write critical reviews of books, music, art work, or plays. Some present news over radio or TV. Some prepare ads, take photographs or write editorials.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	131.067-010	COLUMNIST/COMMENTATOR	6 3 6	TWO TO FOUR YEARS
		131.067-018	CRITIC	6 2 6	FOUR TO TEN YEARS
		131.067-022	EDITORIAL WRITER	5 3 5	FOUR TO TEN YEARS
		131.267-010	NEWSCASTER	5 2 5	TWO TO FOUR YEARS
		131.267-014	NEWSWRITER	5 2 5	TWO TO FOUR YEARS
		131.267-018	REPORTER	5 3 5	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	131.067-014	COPY WRITER	5 2 5	TWO TO FOUR YEARS
09.0201	ADVERTISING	131.067-014	COPY WRITER	5 2 5	TWO TO FOUR YEARS
09.0401	JOURNALISM (MASS COMMUNICATIONS)	*131.067-010	COLUMNIST/COMMENTATOR	6 3 6	TWO TO FOUR YEARS
		*131.067-018	CRITIC	6 2 6	FOUR TO TEN YEARS
		*131.067-022	EDITORIAL WRITER	5 3 5	FOUR TO TEN YEARS
		*131.267-014	NEWSWRITER	5 2 5	TWO TO FOUR YEARS
		*131.267-018	REPORTER	5 3 5	TWO TO FOUR YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*131.067-010	COLUMNIST/COMMENTATOR	6 3 6	TWO TO FOUR YEARS
		*131.267-010	NEWSCASTER	5 2 5	TWO TO FOUR YEARS

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OCCUPATION: 3320

PUBLIC RELATIONS SPECIALISTS AND PUBLICITY WRITERS

These people help individuals, groups, or organizations promote ideas, services, or products and build a good public image. Some handle press or consumer relations. Some conduct political or fund-raising campaigns. Some represent an interest group and promote a policy on a public issue. In some jobs, they recruit workers or students, or prepare press releases and ads for use in newspapers, radio, and TV. They may make speeches, or plan and conduct sales campaigns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	165.017-010	LOBBYIST	5 3 5	TWO TO FOUR YEARS
		166.257-010	EMPLOYER RELATIONS REPRESENTATIVE	5 2 4	ONE TO TWO YEARS
06.0601	HUMAN RESOURCES DEVELOPMENT	*166.257-010	EMPLOYER RELATIONS REPRESENTATIVE	5 2 4	ONE TO TWO YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*166.257-010	EMPLOYER RELATIONS REPRESENTATIVE	5 2 4	ONE TO TWO YEARS
06.1501	ORGANIZATIONAL BEHAVIOR	*166.257-010	EMPLOYER RELATIONS REPRESENTATIVE	5 2 4	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	165.067-010	PUBLIC-RELATIONS REPRESENTATIVE	5 4 5	TWO TO FOUR YEARS
		165.167-010	SALES-SERVICE PROMOTER	5 3 5	TWO TO FOUR YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	165.067-010	PUBLIC-RELATIONS REPRESENTATIVE	5 4 5	TWO TO FOUR YEARS
09.0201	ADVERTISING	165.067-010	PUBLIC-RELATIONS REPRESENTATIVE	5 4 5	TWO TO FOUR YEARS
		165.167-010	SALES-SERVICE PROMOTER	5 3 5	TWO TO FOUR YEARS
09.0501	PUBLIC RELATIONS	*165.017-010	LOBBYIST	5 3 5	TWO TO FOUR YEARS
		*165.067-010	PUBLIC-RELATIONS REPRESENTATIVE	5 4 5	TWO TO FOUR YEARS
		*165.167-010	SALES-SERVICE PROMOTER	5 3 5	TWO TO FOUR YEARS

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OCCUPATION: 3330

RADIO AND TELEVISION ANNOUNCERS

These People introduce and host radio and TV programs. Many RADIO ANNOUNCERS act as disc jockeys. They introduce recorded music, present news, ads, and commentary. They may operate the control board, sell ad time, and write commercials and news copy. ANNOUNCERS in TV and large radio stations often specialize in announcing sports, news, or the weather. They may do the research and writing for their own scripts. As well-known personalities, they often are asked to take part in community events.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	159.147-010	ANNOUNCER	5 3 4	ONE TO TWO YEARS
		159.147-014	DISK JOCKEY	5 3 5	SIX TO 12 MONTHS
		159.347-010	ANNOUNCER	4 2 4	ONE TO TWO YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*159.147-010	ANNOUNCER	5 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3400

ATHLETES AND RELATED WORKERS

These workers are involved in sports and athletics. Some work as coaches, trainers, or scouts. Some manage business affairs for athletes. Some officiate at sports events as umpires, timers, clockers, judges, starters, or scorers. Some direct activities at sports events. Some engage in physical contact sports, such as professional hockey, football, baseball, or boxing. Some compete in car, motorcycle, horse, or other races.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	153.117-010	HEAD COACH	5 4 4	OVER 10 YEARS
		153.117-014	MANAGER, ATHLETE	5 5 5	TWO TO FOUR YEARS
		153.117-018	SCOUT, PROFESSIONAL SPORTS	4 3 4	FOUR TO TEN YEARS
		153.117-022	STEWARD, RACETRACK	5 4 5	FOUR TO TEN YEARS
		153.167-010	PADDOCK JUDGE	4 2 3	TWO TO FOUR YEARS
		153.167-014	PIT STEWARD	4 3 4	ONE TO TWO YEARS
		153.167-018	RACING SECRETARY AND HANDICAPPER	4 4 4	FOUR TO TEN YEARS
		153.227-010	COACH, PROFESSIONAL ATHLETES	5 3 4	FOUR TO TEN YEARS
		153.243-010	AUTOMOBILE RACER	4 3 3	ONE TO TWO YEARS
		153.243-014	MOTORCYCLE RACER	3 2 3	SIX TO 12 MONTHS
		153.244-010	JOCKEY	4 2 3	ONE TO TWO YEARS
		153.244-014	SULKY DRIVER	4 2 3	ONE TO TWO YEARS
		153.267-010	HORSE-RACE STARTER	3 3 3	THREE TO SIX MONTHS
		153.267-014	PATROL JUDGE	4 3 4	FOUR TO TEN YEARS
		153.267-018	UMPIRE	4 3 4	FOUR TO TEN YEARS
		153.341-010	PROFESSIONAL ATHLETE	4 3 3	FOUR TO TEN YEARS
		153.367-010	CLOCKER	3 2 2	UP TO 30 DAYS
		153.367-014	HORSE-RACE TIMER	3 3 3	30 TO 90 DAYS
		153.384-010	MARSHALL	3 1 1	THREE TO SIX MONTHS
		153.387-014	SCORER	3 3 3	THREE TO SIX MONTHS
		153.467-010	CLERK-OF-SCALES	3 3 3	30 TO 90 DAYS
		153.667-010	STARTER	3 2 2	THREE TO SIX MONTHS
		219.267-010	HANDICAPPER, HARNESS RACING	4 3 3	THREE TO SIX MONTHS
01.0505	ANIMAL TRAINING	153.224-010	ATHLETIC TRAINER	5 4 4	FOUR TO TEN YEARS
		153.224-014	RACEHORSE TRAINER	4 2 3	ONE TO TWO YEARS
		153.387-010	IDENTIFIER, HORSE	3 3 3	30 TO 90 DAYS
		153.674-010	EXERCISER, HORSE	2 1 1	30 TO 90 DAYS
		153.674-014	LEAD PONY RIDER	2 1 1	UP TO 30 DAYS
01.0506	HORSESHOEING	153.287-010	HOOF AND SHOE INSPECTOR	4 1 3	ONE TO TWO YEARS
01.0507	HORSE HANDLING AND CARE	*153.224-014	RACEHORSE TRAINER	4 2 3	ONE TO TWO YEARS
		153.287-010	HOOF AND SHOE INSPECTOR	4 1 3	ONE TO TWO YEARS

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OCCUPATION: 3400 ATHLETES AND RELATED WORKERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- CODE TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GED- R M L TRAINING TIME
	*153.674-010 EXERCISER, HORSE	2 1 1 30 TO 90 DAYS
12.0204 UMPIRING	*153.267-018 UMPIRE	4 3 4 FOUR TO TEN YEARS

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OCCUPATION: 3599

HEALTH TECHNOLOGISTS AND TECHNICIANS

Health technologists and technicians work in medical laboratories, hospitals, clinics, and offices to perform diagnostic and treatment procedures. Technologists may supervise technicians as well as perform technical procedures to analyze samples, take x-rays, perform certain nursing services, keep records, or assist in providing dental care.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 HOICC MASTER CROSSWALK

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OCCUPATION: 3600

HEALTH TECHNOLOGISTS AND TECHNICIANS

Health technologists and technicians work in medical laboratories, hospitals, clinics, and offices to perform diagnostic and treatment procedures. Technologists may supervise technicians as well as perform the same technical procedures to analyze samples, take x-rays, perform certain nursing services, keep records, or assist in providing dental care.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 3620

CLINICAL LABORATORY TECHNOLOGISTS AND TECHNICIANS

These people perform lab tests to get information doctors need to diagnose the causes and nature of diseases. They use microscopes, chemicals, and precise instruments to run tests on blood, tissues, and fluids from the human body. In small labs, they often perform many types of tests. In large labs, they usually specialize in one area. Most of these workers conduct tests related to patient treatment, however some do research, develop lab techniques, teach, or head lab programs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	078.121-010	MEDICAL TECHNOLOGIST, TEACHING SUPE	5 4 5	TWO TO FOUR YEARS
		078.161-010	MEDICAL TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
17.0212	DIAGNOSTIC MEDICAL SONOGRAPHY	078.364-010	ULTRASOUND TECHNOLOGIST	5 4 4	TWO TO FOUR YEARS
17.0302	CHEMISTRY TECHNOLOGY	078.261-010	CHEMISTRY TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
17.0306	CYTOTECHNOLOGY	078.281-010	CYTOTECHNOLOGIST	5 4 5	ONE TO TWO YEARS
17.0307	HEMATOLOGY TECHNOLOGY	078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
17.0308	HISTOLOGIC TECHNOLOGY	078.361-030	TISSUE TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
17.0310	MEDICAL TECHNOLOGY	078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
17.0311	MICROBIOLOGY TECHNOLOGY	078.261-014	MICROBIOLOGY TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
18.0206	CLINICAL TOXICOLOGY	*078.161-010	MEDICAL TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
		*078.261-010	CHEMISTRY TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		*078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
18.0901	MEDICAL LABORATORY	*078.121-010	MEDICAL TECHNOLOGIST, TEACHING SUPE	5 4 5	TWO TO FOUR YEARS
		*078.161-010	MEDICAL TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
		*078.261-010	CHEMISTRY TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		*078.261-014	MICROBIOLOGY TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
		*078.281-010	CYTOTECHNOLOGIST	5 4 5	ONE TO TWO YEARS
		*078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		*078.361-030	TISSUE TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
18.2201	PUBLIC HEALTH LABORATORY SCIENCE	*078.161-010	MEDICAL TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
		*078.261-010	CHEMISTRY TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		*078.261-014	MICROBIOLOGY TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
		*078.281-010	CYTOTECHNOLOGIST	5 4 5	ONE TO TWO YEARS

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OCCUPATION: 3620 CLINICAL LABORATORY TECHNOLOGISTS AND TECHNICIANS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
18.2202	EPIDEMIOLOGY	*078.161-010	MEDICAL TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
		*078.261-010	CHEMISTRY TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		*078.361-014	MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 3630

DENTAL HYGIENISTS

DENTAL HYGIENISTS work with dentists as part of a dental health team. They try to help people develop and maintain good oral health. They clean and polish patients' teeth, give them flouride treatments to prevent tooth decay, and tell them how to care for their teeth and gums. They also take medical and dental histories, expose and develop dental histories, expose and develop dental x-ray film, and make impressions of teeth for study models. Some give talks on dental health in schools, assist in research projects, or teach.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
17.0102	DENTAL HYGIENE	078.361-010	DENTAL HYGIENIST	4 3 4 ONE TO TWO YEARS

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OCCUPATION: 3640

HEALTH RECORD TECHNOLOGISTS AND TECHNICIANS

These people maintain medical records of patients in a hospital, clinic, or doctor's office. A medical record is a permanent report of a patient's condition and treatment. These workers copy medical data onto forms, analyze and code information, compile statistics, and keep files of records. They also find medical information for doctors and others upon request. Some plan new ways to keep health records up to date.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
17.0506	MEDICAL RECORDS TECHNOLOGY	079.367-014	MEDICAL RECORD TECHNICIAN	5 4 5 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3650

RADIOLOGIC TECHNOLOGISTS AND TECHNICIANS

These workers take x-ray pictures of patients to help doctors diagnose and treat injuries and diseases. They also give radiation treatments to cancer patients, as prescribed by a doctor. Sometimes, they prepare radioactive solutions for patients to swallow or have injected. They then use special cameras to find areas in body organs that have a certain reaction to the solution. They also prepare and keep treatment records and prepare work schedules for assistants.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	078.162-010	RADIOLOGIC TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
17.0207	MEDICAL RADIATION DOSIMETRY	078.361-034	RADIATION-THERAPY TECHNOLOGIST	5 4 4	ONE TO TWO YEARS
17.0208	NUCLEAR MEDICAL TECHNOLOGY	078.161-018	CHIEF TECHNOLOGIST, NUCLEAR MEDICIN	5 4 5	FOUR TO TEN YEARS
		078.361-018	NUCLEAR MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
17.0209	RADIOLOGIC (MEDICAL) TECHNOLOGY	078.362-026	RADIOLOGIC TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
18.1012	NUCLEAR MEDICINE	*078.161-018	CHIEF TECHNOLOGIST, NUCLEAR MEDICIN	5 4 5	FOUR TO TEN YEARS
		*078.361-018	NUCLEAR MEDICAL TECHNOLOGIST	5 4 5	TWO TO FOUR YEARS
		*078.361-034	RADIATION-THERAPY TECHNOLOGIST	5 4 4	ONE TO TWO YEARS
18.1025	RADIOLOGY	*078.162-010	RADIOLOGIC TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
		*078.362-026	RADIOLOGIC TECHNOLOGIST	5 4 5	ONE TO TWO YEARS
26.0611	RADIOBIOLOGY	*078.161-018	CHIEF TECHNOLOGIST, NUCLEAR MEDICIN	5 4 5	FOUR TO TEN YEARS
		*078.362-026	RADIOLOGIC TECHNOLOGIST	5 4 5	ONE TO TWO YEARS

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OCCUPATION: 3660

LICENSED PRACTICAL NURSES

LICENSED PRACTICAL NURSES help care for sick and injured people in hospitals, clinics, doctor's offices, and private homes. They work under the direction of doctors and registered nurses to provide bedside patient care and help examine and treat patients. They bathe, dress, feed and give medicines to patients. They also try to make patients comfortable and cheer them up. Those who work in a doctor's office may set appointments, record medical information, and perform other clerical tasks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME
17.0405	MENTAL HEALTH/HUMAN SERVICES ASSISTING	079.374-020	PSYCHIATRIC TECHNICIAN	4 3 4 ONE TO TWO YEARS
17.0406	MENTAL HEALTH/HUMAN SERVICES TECHNOLOGY	079.374-026	PSYCHIATRIC TECHNICIAN	4 3 4 ONE TO TWO YEARS
17.0605	PRACTICAL NURSING	079.374-014	NURSE, LICENSED PRACTICAL	4 3 4 ONE TO TWO YEARS
		354.374-010	NURSE, PRACTICAL	3 2 3 THREE TO SIX MONTHS
18.1106	PSYCHIATRIC/MENTAL HEALTH	*079.374-026	PSYCHIATRIC TECHNICIAN	4 3 4 ONE TO TWO YEARS

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OCCUPATION: 3690

HEALTH TECHNOLOGISTS AND TECHNICIANS, N.E.C.

These people perform various technical tasks to set information needed for the diagnosis, treatment, and control of diseases. They also may help treat patients or conduct programs to control and prevent health hazards and diseases. Some use medical equipment to test body specimens. Some mix and dispense drugs. Some prepare patients for surgery. Some fit patients with artificial limbs. Some take precise readings of patients' heart rates and brain waves. Some perform routine medical lab tests.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	073.361-010	LABORATORY TECHNICIAN, VETERINARY	5 4 4	ONE TO TWO YEARS
		078.361-022	ORTHOTICS ASSISTANT	4 4 4	TWO TO FOUR YEARS
		078.361-026	PROSTHETICS ASSISTANT	4 4 4	TWO TO FOUR YEARS
		078.384-010	CEPHALOMETRIC ANALYST	4 4 4	ONE TO TWO YEARS
		079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS
		079.364-014	OPTOMETRIC ASSISTANT	4 4 4	ONE TO TWO YEARS
		079.367-018	MEDICAL-SERVICE TECHNICIAN	4 3 3	TWO TO FOUR YEARS
		079.371-014	ORTHOPTIST	4 4 4	ONE TO TWO YEARS
		079.374-022	SURGICAL TECHNICIAN	4 4 3	ONE TO TWO YEARS
01.0302	ANIMAL PRODUCTION	073.361-010	LABORATORY TECHNICIAN, VETERINARY	5 4 4	ONE TO TWO YEARS
02.0203	ANIMAL HEALTH	073.361-010	LABORATORY TECHNICIAN, VETERINARY	5 4 4	ONE TO TWO YEARS
15.0701	OCCUPATIONAL SAFETY AND HEALTH TECHNOLOG	079.161-010	INDUSTRIAL HYGIENIST	5 4 5	FOUR TO TEN YEARS
17.0201	CARDIOVASCULAR TECHNOLOGY	078.161-014	CARDIOPULMONARY TECHNOLOGIST, CHIEF	5 4 5	TWO TO FOUR YEARS
		078.262-010	PULMONARY-FUNCTION TECHNICIAN	4 4 4	ONE TO TWO YEARS
		078.362-030	CARDIOPULMONARY TECHNOLOGIST	4 4 4	TWO TO FOUR YEARS
		078.362-034	PERFUSIONIST	4 3 4	TWO TO FOUR YEARS
17.0202	DIALYSIS TECHNOLOGY	078.362-014	DIALYSIS TECHNICIAN	4 3 3	ONE TO TWO YEARS
17.0203	ELECTROCARDIOGRAPH TECHNOLOGY	078.362-018	ELECTROCARDIOGRAPH TECHNICIAN	4 3 4	ONE TO TWO YEARS
17.0204	ELECTROENCEPHALOGRAPH TECHNOLOGY	078.362-022	ELECTROENCEPHALOGRAPHIC TECHNOLOGIS	4 4 4	ONE TO TWO YEARS
17.0206	EMERGENCY MEDICAL TECHNOLOGY-PARAMEDIC	079.374-010	EMERGENCY MEDICAL TECHNICIAN	4 3 4	SIX TO 12 MONTHS
17.0211	SURGICAL TECHNOLOGY	079.374-022	SURGICAL TECHNICIAN	4 4 3	ONE TO TWO YEARS
17.0302	CHEMISTRY TECHNOLOGY	078.381-010	MEDICAL-LABORATORY ASSISTANT	4 4 4	THREE TO SIX MONTHS
		078.381-014	MEDICAL-LABORATORY TECHNICIAN	5 4 5	SIX TO 12 MONTHS
17.0303	CLINICAL ANIMAL TECHNOLOGY	073.361-010	LABORATORY TECHNICIAN, VETERINARY	5 4 4	ONE TO TWO YEARS

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OCCUPATION: 3690 HEALTH TECHNOLOGISTS AND TECHNICIANS, NOT ELSEWHERE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R M L	TRAINING TIME
		073.361-014	LABORATORY ASSISTANT, ZOO	4 3 4	SIX TO 12 MONTHS
17.0305	CLINICAL LABORATORY ASSISTING	078.361-010	MEDICAL-LABORATORY ASSISTANT	4 4 4	THREE TO SIX MONTHS
17.0307	HEMATOLOGY TECHNOLOGY	078.221-010	IMMUNOHEMATOLOGIST	5 3 5	FOUR TO TEN YEARS
		078.381-010	MEDICAL-LABORATORY ASSISTANT	4 4 4	THREE TO SIX MONTHS
		078.381-014	MEDICAL-LABORATORY TECHNICIAN	5 4 5	SIX TO 12 MONTHS
17.0309	MEDICAL LABORATORY TECHNOLOGY	078.381-010	MEDICAL-LABORATORY ASSISTANT	4 4 4	THREE TO SIX MONTHS
		078.381-014	MEDICAL-LABORATORY TECHNICIAN	5 4 5	SIX TO 12 MONTHS
17.0404	HOME HEALTH AIDE	079.224-010	HOME HEALTH TECHNICIAN	4 3 4	ONE TO TWO YEARS
17.0503	MEDICAL ASSISTING	078.362-018	ELECTROCARDIOGRAPH TECHNICIAN	4 3 4	ONE TO TWO YEARS
		078.381-010	MEDICAL-LABORATORY ASSISTANT	4 4 4	THREE TO SIX MONTHS
		079.364-014	OPTOMETRIC ASSISTANT	4 4 4	ONE TO TWO YEARS
17.0507	PHARMACY ASSISTING	074.381-010	PHARMACIST ASSISTANT	4 4 3	ONE TO TWO YEARS
17.0508	PHYSICIAN ASSISTING	712.661-010	ORTHOPEDIC ASSISTANT	3 2 3	THREE TO SIX MONTHS
17.0512	VETERINARIAN ASSISTING	073.361-014	LABORATORY ASSISTANT, ZOO	4 3 4	SIX TO 12 MONTHS
17.0705	OPTOMETRIC TECHNOLOGY	079.364-014	OPTOMETRIC ASSISTANT	4 4 4	ONE TO TWO YEARS
17.0804	EXERCISE PHYSIOLOGY	078.362-018	ELECTROCARDIOGRAPH TECHNICIAN	4 3 4	ONE TO TWO YEARS
17.0811	ORTHOTICS/PROSTHETICS	078.261-018	ORTHOTIST	5 4 4	FOUR TO TEN YEARS
		078.261-022	PROSTHETIST	5 4 4	FOUR TO TEN YEARS
17.0812	ORTHOPEDIC ASSISTING	712.661-010	ORTHOPEDIC ASSISTANT	3 2 3	THREE TO SIX MONTHS
17.0820	SPEECH/HEARING THERAPY AIDE	078.362-010	AUDIOMETRIST	4 3 4	ONE TO TWO YEARS
18.0206	CLINICAL TOXICOLOGY	*078.381-014	MEDICAL-LABORATORY TECHNICIAN	5 4 5	SIX TO 12 MONTHS
		*079.161-010	INDUSTRIAL HYGIENIST	5 4 5	FOUR TO TEN YEARS
18.0702	HEALTH CARE PLANNING	*079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS
18.1022	PREVENTIVE MEDICINE	*079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS
18.1107	PUBLIC HEALTH	*079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
18.2201	PUBLIC HEALTH LABORATORY SCIENCE	*078.381-010	MEDICAL-LABORATORY ASSISTANT	4 4 4	THREE TO SIX MONTHS
		*078.381-014	MEDICAL-LABORATORY TECHNICIAN	5 4 5	SIX TO 12 MONTHS
18.2202	EPIDEMIOLOGY	*079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS
18.2203	PUBLIC HEALTH EDUCATION	*079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS
		*079.161-010	INDUSTRIAL HYGIENIST	5 4 5	FOUR TO TEN YEARS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*079.117-018	SANITARIAN	6 5 6	FOUR TO TEN YEARS
		*079.161-010	INDUSTRIAL HYGIENIST	5 4 5	FOUR TO TEN YEARS
20.0606	HOMEMAKER'S AIDE	079.224-010	HOME HEALTH TECHNICIAN	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 3699

TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH

These workers use specialized skills to perform tests, provide information, or develop products. They may work with engineers or scientists, performs practical tasks to test ideas or theories. They may operate specialized equipment or control air traffic. They may write computer programs, draft legal documents, write technical manuals, or assist surveyors and cartographers in map-making and drafting.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 3700

ENGINEERING AND RELATED TECHNOLOGISTS AND TECHNICIANS

These workers assist engineers in examining data and testing products. They may test mechanical equipment, industrial tools, or electrical products designed by engineers. They record data from experiments and projects or calculate results. They may work with architects, surveyors, or cartographers gathering data, drawing plans, noting land forms, or doing calculations. They use mathematics, drafting skills, and technical knowledge of engineering principles.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 3710

ENGINEERING TECHNOLOGISTS AND TECHNICIANS

People in these occupations help engineers, scientists, and surveyors. They may help electrical engineers design and build electrical or electronic equipment. They may work with mechanical engineers to design and develop machinery, or they may help industrial engineers plan and implement production of goods and services. They test equipment, conduct studies, and help solve problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME

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OCCUPATION: 3711

ELECTRICAL AND ELECTRONIC ENGINEERING TECHNOLOGISTS AND TECHNICIANS

People in these jobs work with engineers and scientists to design and build electrical and electronic equipment. They also install, repair, test, and operate such equipment. The types of equipment they work with range from radio, radar, sonar, and TV equipment to industrial and medical measuring and control devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
10.0102	MOTION PICTURE TECHNOLOGY	194.381-010	TECHNICAL TESTING ENGINEER	4 4 3	ONE TO TWO YEARS
14.0901	COMPUTER ENGINEERING	*003.161-014	ELECTRONICS TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		*003.161-018	SEMICONDUCTOR-DEVELOPMENT TECHNICIA	5 5 4	TWO TO FOUR YEARS
14.1801	MATERIALS ENGINEERING	*019.281-010	CALIBRATION LABORATORY TECHNICIAN	5 5 4	TWO TO FOUR YEARS
14.2701	SYSTEMS ENGINEERING	*003.161-014	ELECTRONICS TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		*003.161-018	SEMICONDUCTOR-DEVELOPMENT TECHNICIA	5 5 4	TWO TO FOUR YEARS
15.0302	ELECTRICAL TECHNOLOGY	003.161-010	ELECTRICAL TECHNICIAN	4 4 4	TWO TO FOUR YEARS
		019.281-010	CALIBRATION LABORATORY TECHNICIAN	5 5 4	TWO TO FOUR YEARS
15.0303	ELECTRONIC TECHNOLOGY	003.161-014	ELECTRONICS TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		003.161-018	SEMICONDUCTOR-DEVELOPMENT TECHNICIA	5 5 4	TWO TO FOUR YEARS
		019.281-010	CALIBRATION LABORATORY TECHNICIAN	5 5 4	TWO TO FOUR YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	003.261-010	INSTRUMENTATION TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		019.281-010	CALIBRATION LABORATORY TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		184.167-194	SUPERINTENDENT, METERS	5 4 4	FOUR TO TEN YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	003.261-010	INSTRUMENTATION TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		019.281-010	CALIBRATION LABORATORY TECHNICIAN	5 5 4	TWO TO FOUR YEARS
15.0405	ROBOTICS TECHNOLOGY	*003.161-014	ELECTRONICS TECHNICIAN	5 5 4	TWO TO FOUR YEARS
15.0801	AERONAUTICAL TECHNOLOGY	019.281-010	CALIBRATION LABORATORY TECHNICIAN	5 5 4	TWO TO FOUR YEARS
40.0808	SOLID STATE PHYSICS	*003.161-014	ELECTRONICS TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		*003.161-018	SEMICONDUCTOR-DEVELOPMENT TECHNICIA	5 5 4	TWO TO FOUR YEARS

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OCCUPATION: 3712

INDUSTRIAL ENGINEERING TECHNOLOGISTS

These workers help industrial engineers plan the best uses of workers, materials, and machines to produce goods and services. They prepare layouts of machinery and equipment, plan the work flow, do statistical studies, and determine production costs. They also conduct time and motion studies (analyze the time and movements a worker needs to complete a task).

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	012.267-010	INDUSTRIAL ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS
15.0603	INDUSTRIAL TECHNOLOGY	012.267-010	INDUSTRIAL ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS

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OCCUPATION: 3713

MECHANICAL ENGINEERING TECHNOLOGISTS & TECHNICIANS

These people help engineers in design and development work. They make sketches and rough layouts of machinery and other equipment and parts. They also figure out the costs and usefulness of product designs. They often use complex instruments, test equipment, and gauges to test new product design. They may estimate labor costs, equipment life, and plant space needed for new operations. Sometimes they work with engineers to solve production problems.

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	007.161-030	OPTOMECHANICAL TECHNICIAN	5 4 4	FOUR TO TEN YEARS
14.1901	MECHANICAL ENGINEERING	*007.181-010	HEAT-TRANSFER TECHNICIAN	5 5 5	TWO TO FOUR YEARS
15.0202	DRAFTING AND DESIGN TECHNOLOGY	017.261-010	AUTO-DESIGN CHECKER	5 4 4	FOUR TO TEN YEARS
15.0501	AIR CONDITIONING, HEATING, AND REFRIGERA	007.181-010	HEAT-TRANSFER TECHNICIAN	5 5 5	TWO TO FOUR YEARS
15.0503	ENERGY CONSERVATION AND USE TECHNOLOGY	007.181-010	HEAT-TRANSFER TECHNICIAN	5 5 5	TWO TO FOUR YEARS
15.0606	OPTICAL TECHNOLOGY	007.161-030	OPTOMECHANICAL TECHNICIAN	5 4 4	FOUR TO TEN YEARS
15.0803	AUTOMOTIVE TECHNOLOGY	017.261-010	AUTO-DESIGN CHECKER	5 4 4	FOUR TO TEN YEARS
15.0805	MECHANICAL DESIGN TECHNOLOGY	007.161-026	MECHANICAL-ENGINEERING TECHNICIAN	5 4 4	TWO TO FOUR YEARS

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OCCUPATION: 3719

ENGINEERING TECHNOLOGISTS AND TECHNICIANS, N.E.C.

These people assist engineers in lab and production work. They do such things as set up and operate testing equipment, build experimental products, and prepare drawings of machinery and equipment. They record meter readings, take measurements, and prepare graphs and charts. They may prepare equipment specifications and interpret engineering plans for other workers. They may operate electronic sound devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	006.261-010	SCIENTIFIC GLASS BLOWER	4 4 4	FOUR TO TEN YEARS
		008.261-010	CHEMICAL-ENGINEERING TECHNICIAN	5 5 5	FOUR TO TEN YEARS
		013.161-010	AGRICULTURAL-ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS
		019.267-010	SPECIFICATION WRITER	5 4 4	TWO TO FOUR YEARS
		194.382-014	TAPE TRANSFERRER	3 3 3	SIX TO 12 MONTHS
01.0204	AGRICULTURAL POWER MACHINERY	013.161-010	AGRICULTURAL-ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	013.161-010	AGRICULTURAL-ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS
02.0501	SOIL SCIENCES	013.161-010	AGRICULTURAL-ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS
03.0202	CONSERVATION	013.161-010	AGRICULTURAL-ENGINEERING TECHNICIAN	5 5 4	TWO TO FOUR YEARS
04.0201	ARCHITECTURE	*019.267-010	SPECIFICATION WRITER	5 4 4	TWO TO FOUR YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*194.262-014	SOUND CONTROLLER	4 4 3	TWO TO FOUR YEARS
		*194.262-018	SOUND MIXER	4 4 3	TWO TO FOUR YEARS
		*194.362-010	RECORDING ENGINEER	3 3 3	TWO TO FOUR YEARS
		*194.362-014	RERECORDING MIXER	4 4 4	TWO TO FOUR YEARS
		*194.382-014	TAPE TRANSFERRER	3 3 3	SIX TO 12 MONTHS
10.0102	MOTION PICTURE TECHNOLOGY	194.262-018	SOUND MIXER	4 4 3	TWO TO FOUR YEARS
		194.362-014	RERECORDING MIXER	4 4 4	TWO TO FOUR YEARS
		962.167-010	MANAGER, SOUND EFFECTS	5 4 5	TWO TO FOUR YEARS
		962.382-014	SOUND CUTTER	4 3 4	ONE TO TWO YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROADCASTING	194.262-014	SOUND CONTROLLER	4 4 3	TWO TO FOUR YEARS
		194.262-018	SOUND MIXER	4 4 3	TWO TO FOUR YEARS
		194.362-010	RECORDING ENGINEER	3 3 3	TWO TO FOUR YEARS
		194.362-014	RERECORDING MIXER	4 4 4	TWO TO FOUR YEARS
		962.167-010	MANAGER, SOUND EFFECTS	5 4 5	TWO TO FOUR YEARS
10.0105	SOUND RECORDING TECHNOLOGY	*194.262-014	SOUND CONTROLLER	4 4 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3719 ENGINEERING TECHNOLOGISTS AND TECHNICIANS, NEC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*194.262-018	SOUND MIXER	4 4 3	TWO TO FOUR YEARS
		*194.362-010	RECORDING ENGINEER	3 3 3	TWO TO FOUR YEARS
		*194.382-014	TAPE TRANSFERRER	3 3 3	SIX TO 12 MONTHS
		*962.167-010	MANAGER, SOUND EFFECTS	5 4 5	TWO TO FOUR YEARS
		*962.382-014	SOUND CUTTER	4 3 4	ONE TO TWO YEARS
10.0106	VIDEO TECHNOLOGY	*194.362-010	RECORDING ENGINEER	3 3 3	TWO TO FOUR YEARS
		*194.362-014	RERECORDING MIXER	4 4 4	TWO TO FOUR YEARS
		962.382-014	SOUND CUTTER	4 3 4	ONE TO TWO YEARS
14.1501	GEOLOGICAL ENGINEERING	*010.261-010	FIELD ENGINEER, SPECIALIST	4 4 4	TWO TO FOUR YEARS
14.1801	MATERIALS ENGINEERING	*019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
14.2501	PETROLEUM ENGINEERING	*010.261-010	FIELD ENGINEER, SPECIALIST	4 4 4	TWO TO FOUR YEARS
15.0101	ARCHITECTURAL DESIGN AND CONSTRUCTION TE	019.267-010	SPECIFICATION WRITER	5 4 4	TWO TO FOUR YEARS
15.0102	ARCHITECTURAL INTERIOR DESIGN TECHNOLOGY	019.261-018	FACILITIES PLANNER	5 5 5	TWO TO FOUR YEARS
15.0301	COMPUTER TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0402	COMPUTER SERVICING TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0405	ROBOTICS TECHNOLOGY	*019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0503	ENERGY CONSERVATION AND USE TECHNOLOGY	010.261-026	TEST-ENGINE EVALUATOR	4 4 4	TWO TO FOUR YEARS
15.0506	WATER AND WASTEWATER TECHNOLOGY	005.261-010	ENGINEERING TECHNICIAN	4 4 4	TWO TO FOUR YEARS
15.0603	INDUSTRIAL TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
		019.267-010	SPECIFICATION WRITER	5 4 4	TWO TO FOUR YEARS
15.0610	WELDING TECHNOLOGY	011.261-010	METALLURGICAL TECHNICIAN	4 4 4	ONE TO TWO YEARS
		011.261-014	WELDING TECHNICIAN	4 3 3	FOUR TO TEN YEARS
		011.281-010	LABORATORY ASSISTANT, METALLURGICAL	4 4 4	ONE TO FOUR YEARS

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OCCUPATION: 3719 ENGINEERING TECHNOLOGISTS AND TECHNICIANS, NEC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		011.281-014	SPECTROSCOPIST	4 4 4	TWO TO FOUR YEARS
		011.361-010	TESTER	4 4 3	SIX TO 12 MONTHS
		019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	011.361-010	TESTER	4 4 3	SIX TO 12 MONTHS
		019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0801	AERONAUTICAL TECHNOLOGY	002.280-010	RESEARCH MECHANIC	4 4 3	TWO TO FOUR YEARS
		002.281-010	FLIGHT-TEST-DATA TRANSCRIBER	5 4 4	SIX TO 12 MONTHS
		019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0803	AUTOMOTIVE TECHNOLOGY	010.261-026	TEST-ENGINE EVALUATOR	4 4 4	TWO TO FOUR YEARS
		019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0805	MECHANICAL DESIGN TECHNOLOGY	019.161-014	TEST TECHNICIAN	5 4 4	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	010.261-010	FIELD ENGINEER, SPECIALIST	4 4 4	TWO TO FOUR YEARS
		010.261-026	TEST-ENGINE EVALUATOR	4 4 4	TWO TO FOUR YEARS
		194.382-010	SECTION-PLOTTER OPERATOR	3 3 3	SIX TO 12 MONTHS
40.0701	METALLURGY	*011.261-010	METALLURGICAL TECHNICIAN	4 4 4	ONE TO TWO YEARS
		*011.281-010	LABORATORY ASSISTANT, METALLURGICAL	4 4 4	TWO TO FOUR YEARS
		*011.281-014	SPECTROSCOPIST	4 4 4	TWO TO FOUR YEARS
		*011.361-010	TESTER	4 4 3	SIX TO 12 MONTHS
41.0301	CHEMICAL TECHNOLOGY	008.261-010	CHEMICAL-ENGINEERING TECHNICIAN	5 5 5	FOUR TO TEN YEARS
41.0303	METALLURGICAL TECHNOLOGY	011.261-010	METALLURGICAL TECHNICIAN	4 4 4	ONE TO TWO YEARS
		011.261-014	WELDING TECHNICIAN	4 3 3	FOUR TO TEN YEARS
		011.281-010	LABORATORY ASSISTANT, METALLURGICAL	4 4 4	TWO TO FOUR YEARS
		011.281-014	SPECTROSCOPIST	4 4 4	TWO TO FOUR YEARS
		011.361-010	TESTER	4 4 3	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3720

DRAFTING OCCUPATIONS

DRAFTERS prepare detailed plans and drawings based on rough sketches, specifications and calculations made by scientists, engineers, architects and designers. These plans and drawings are used in construction, manufacturing, and engineering. They also calculate the strength, quality, quantity, and cost of materials. They use drafting tools, technical handbooks, tables, and calculators.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
04.0201	ARCHITECTURE	*001.261-010	DRAFTER, ARCHITECTURAL	4	4	3	TWO TO FOUR YEARS
		*017.161-010	DRAFTER, CHIEF, DESIGN	5	5	5	FOUR TO TEN YEARS
		*017.261-018	DETAILER	4	4	4	TWO TO FOUR YEARS
04.0601	LANDSCAPE ARCHITECTURE	*001.261-014	DRAFTER, LANDSCAPE	4	4	3	TWO TO FOUR YEARS
14.0401	ARCHITECTURAL ENGINEERING	*001.261-010	DRAFTER, ARCHITECTURAL	4	4	3	TWO TO FOUR YEARS
		*001.261-014	DRAFTER, LANDSCAPE	4	4	3	TWO TO FOUR YEARS
		*005.281-010	DRAFTER, CIVIL	5	5	4	TWO TO FOUR YEARS
		*005.281-014	DRAFTER, STRUCTURAL	5	5	4	TWO TO FOUR YEARS
14.0901	COMPUTER ENGINEERING	*003.281-014	DRAFTER, ELECTRONIC	5	5	4	TWO TO FOUR YEARS
14.1901	MECHANICAL ENGINEERING	*007.161-010	DIE DESIGNER	4	4	4	TWO TO FOUR YEARS
		*007.161-018	ENGINEERING ASSISTANT, MECHANICAL E	5	5	5	TWO TO FOUR YEARS
14.2701	SYSTEMS ENGINEERING	*003.281-014	DRAFTER, ELECTRONIC	5	5	4	TWO TO FOUR YEARS
15.0101	ARCHITECTURAL DESIGN AND CONSTRUCTION TE	001.261-014	DRAFTER, LANDSCAPE	4	4	3	TWO TO FOUR YEARS
		017.261-038	DRAFTER, PLUMBING	5	5	4	TWO TO FOUR YEARS
		017.261-042	DRAFTER, COMPUTER-ASSISTED	4	4	4	TWO TO FOUR YEARS
15.0201	CIVIL TECHNOLOGY	005.281-010	DRAFTER, CIVIL	5	5	4	TWO TO FOUR YEARS
		005.281-014	DRAFTER, STRUCTURAL	5	5	4	TWO TO FOUR YEARS
		017.261-018	DETAILER	4	4	4	TWO TO FOUR YEARS
		017.261-026	DRAFTER, COMMERCIAL	5	5	4	ONE TO TWO YEARS
		017.281-018	DRAFTER, ASSISTANT	4	4	3	TWO TO FOUR YEARS
15.0202	DRAFTING AND DESIGN TECHNOLOGY	001.261-010	DRAFTER, ARCHITECTURAL	4	4	3	TWO TO FOUR YEARS
		001.261-014	DRAFTER, LANDSCAPE	4	4	3	TWO TO FOUR YEARS
		002.261-010	DRAFTER, AERONAUTICAL	5	5	4	TWO TO FOUR YEARS
		005.281-010	DRAFTER, CIVIL	5	5	4	TWO TO FOUR YEARS
		005.281-014	DRAFTER, STRUCTURAL	5	5	4	TWO TO FOUR YEARS
		007.161-018	ENGINEERING ASSISTANT, MECHANICAL E	5	5	5	TWO TO FOUR YEARS
		007.261-014	DRAFTER, CASTINGS	4	4	4	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		007.261-018	DRAFTER, PATENT	5 5 5	TWO TO FOUR YEARS
		007.261-022	DRAFTER, TOOL DESIGN	5 5 5	TWO TO FOUR YEARS
		007.281-010	DRAFTER, MECHANICAL	5 5 5	TWO TO FOUR YEARS
		014.281-010	DRAFTER, MARINE	5 5 4	TWO TO FOUR YEARS
		017.161-010	DRAFTER, CHIEF, DESIGN	5 5 5	FOUR TO TEN YEARS
		017.261-014	DESIGN DRAFTER, ELECTROMECHANISMS	5 5 4	TWO TO FOUR YEARS
		017.261-018	DETAILER	4 4 4	TWO TO FOUR YEARS
		017.261-026	DRAFTER, COMMERCIAL	5 5 4	ONE TO TWO YEARS
		017.261-030	DRAFTER, DETAIL	4 4 4	TWO TO FOUR YEARS
		017.261-034	DRAFTER, HEATING AND VENTILATING	5 5 4	TWO TO FOUR YEARS
		017.261-038	DRAFTER, PLUMBING	5 5 4	TWO TO FOUR YEARS
		017.261-042	DRAFTER, COMPUTER-ASSISTED	4 4 4	TWO TO FOUR YEARS
		017.281-010	AUTO-DESIGN DETAILER	4 4 3	ONE TO TWO YEARS
		017.281-014	DRAFTER APPRENTICE	5 5 4	TWO TO FOUR YEARS
		017.281-018	DRAFTER, ASSISTANT	4 4 3	TWO TO FOUR YEARS
		017.281-022	DRAFTER, AUTOMOTIVE DESIGN	5 4 4	TWO TO FOUR YEARS
		017.281-026	DRAFTER, AUTOMOTIVE DESIGN LAY-OUT	4 4 3	TWO TO FOUR YEARS
		017.281-030	DRAFTER, OIL AND GAS	4 4 3	TWO TO FOUR YEARS
		017.281-034	TECHNICAL ILLUSTRATOR	5 5 4	TWO TO FOUR YEARS
		019.261-014	ESTIMATOR AND DRAFTER	5 5 5	TWO TO FOUR YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	010.281-014	DRAFTER, GEOLOGICAL	5 5 5	ONE TO TWO YEARS
		010.281-018	DRAFTER, GEOPHYSICAL	5 5 5	TWO TO FOUR YEARS
15.0405	ROBOTICS TECHNOLOGY	*017.261-014	DESIGN DRAFTER, ELECTROMECHANISMS	5 5 4	TWO TO FOUR YEARS
15.0501	AIR CONDITIONING, HEATING, AND REFRIGERA	017.261-034	DRAFTER, HEATING AND VENTILATING	5 5 4	TWO TO FOUR YEARS
15.0803	AUTOMOTIVE TECHNOLOGY	017.281-022	DRAFTER, AUTOMOTIVE DESIGN	5 4 4	TWO TO FOUR YEARS
15.0805	MECHANICAL DESIGN TECHNOLOGY	007.161-010	DIE DESIGNER	4 4 4	TWO TO FOUR YEARS
		007.161-014	DIE-DESIGNER APPRENTICE	4 4 4	TWO TO FOUR YEARS
		007.161-018	ENGINEERING ASSISTANT, MECHANICAL E	5 5 5	TWO TO FOUR YEARS
		007.261-010	CHIEF DRAFTER	5 5 5	TWO TO FOUR YEARS
		007.281-010	DRAFTER, MECHANICAL	5 5 5	TWO TO FOUR YEARS
		017.161-010	DRAFTER, CHIEF, DESIGN	5 5 5	FOUR TO TEN YEARS
15.0903	PETROLEUM TECHNOLOGY	017.281-030	DRAFTER, OIL AND GAS	4 4 3	TWO TO FOUR YEARS
15.1001	CONSTRUCTION TECHNOLOGY	*001.261-010	DRAFTER, ARCHITECTURAL	4 4 3	TWO TO FOUR YEARS
		*005.281-010	DRAFTER, CIVIL	5 5 4	TWO TO FOUR YEARS
		*005.281-014	DRAFTER, STRUCTURAL	5 5 4	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME		
CODE TITLE	CODE TITLE	R M L			
48.0102 ARCHITECTURAL DRAFTING	001.261-010 DRAFTER, ARCHITECTURAL	4 4 3	TWO	TO	FOUR YEARS
	001.261-014 DRAFTER, LANDSCAPE	4 4 3	TWO	TO	FOUR YEARS
	017.261-026 DRAFTER, COMMERCIAL	5 5 4	ONE	TO	TWO YEARS
	017.261-030 DRAFTER, DETAIL	4 4 4	TWO	TO	FOUR YEARS
	017.261-034 DRAFTER, HEATING AND VENTILATING	5 5 4	TWO	TO	FOUR YEARS
	017.261-038 DRAFTER, PLUMBING	5 5 4	TWO	TO	FOUR YEARS
	017.261-042 DRAFTER, COMPUTER-ASSISTED	4 4 4	TWO	TO	FOUR YEARS
	017.281-014 DRAFTER APPRENTICE	5 5 4	TWO	TO	FOUR YEARS
	017.281-018 DRAFTER, ASSISTANT	4 4 3	TWO	TO	FOUR YEARS
	017.281-030 DRAFTER, OIL AND GAS	4 4 3	TWO	TO	FOUR YEARS
	019.261-014 ESTIMATOR AND DRAFTER	5 5 5	TWO	TO	FOUR YEARS
48.0103 CIVIL/STRUCTURAL DRAFTING	005.281-010 DRAFTER, CIVIL	5 5 4	TWO	TO	FOUR YEARS
	005.281-014 DRAFTER, STRUCTURAL	5 5 4	TWO	TO	FOUR YEARS
	010.281-010 DRAFTER, DIRECTIONAL SURVEY	5 5 5	TWO	TO	FOUR YEARS
	010.281-014 DRAFTER, GEOLOGICAL	5 5 5	ONE	TO	TWO YEARS
	010.281-018 DRAFTER, GEOPHYSICAL	5 5 5	TWO	TO	FOUR YEARS
	014.281-010 DRAFTER, MARINE	5 5 4	TWO	TO	FOUR YEARS
	017.261-030 DRAFTER, DETAIL	4 4 4	TWO	TO	FOUR YEARS
	017.261-042 DRAFTER, COMPUTER-ASSISTED	4 4 4	TWO	TO	FOUR YEARS
	017.281-014 DRAFTER APPRENTICE	5 5 4	TWO	TO	FOUR YEARS
	017.281-018 DRAFTER, ASSISTANT	4 4 3	TWO	TO	FOUR YEARS
	017.281-030 DRAFTER, OIL AND GAS	4 4 3	TWO	TO	FOUR YEARS
	019.261-014 ESTIMATOR AND DRAFTER	5 5 5	TWO	TO	FOUR YEARS
48.0104 ELECTRICAL/ELECTRONICS DRAFTING	003.281-010 DRAFTER, ELECTRICAL	5 5 5	TWO	TO	FOUR YEARS
	003.281-014 DRAFTER, ELECTRONIC	5 5 4	TWO	TO	FOUR YEARS
	003.281-018 DRAFTER, ELECTRO-MECHANICAL	4 4 4	TWO	TO	FOUR YEARS
	017.261-014 DESIGN DRAFTER, ELECTROMECHANISMS	5 5 4	TWO	TO	FOUR YEARS
	017.261-042 DRAFTER, COMPUTER-ASSISTED	4 4 4	TWO	TO	FOUR YEARS
	017.281-014 DRAFTER APPRENTICE	5 5 4	TWO	TO	FOUR YEARS
	017.281-018 DRAFTER, ASSISTANT	4 4 3	TWO	TO	FOUR YEARS
	019.261-014 ESTIMATOR AND DRAFTER	5 5 5	TWO	TO	FOUR YEARS
48.0105 MECHANICAL DRAFTING	002.261-010 DRAFTER, AERONAUTICAL	5 5 4	TWO	TO	FOUR YEARS
	003.281-018 DRAFTER, ELECTRO-MECHANICAL	4 4 4	TWO	TO	FOUR YEARS
	007.161-010 DIE DESIGNER	4 4 4	TWO	TO	FOUR YEARS
	007.161-014 DIE-DESIGNER APPRENTICE	4 4 4	TWO	TO	FOUR YEARS
	007.161-018 ENGINEERING ASSISTANT, MECHANICAL E	5 5 5	TWO	TO	FOUR YEARS
	007.261-014 DRAFTER, CASTINGS	4 4 4	TWO	TO	FOUR YEARS
	007.261-018 DRAFTER, PATENT	5 5 5	TWO	TO	FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		007.261-022	DRAFTER, TOOL DESIGN	5	5	5	TWO TO FOUR YEARS
		007.281-010	DRAFTER, MECHANICAL	5	5	5	TWO TO FOUR YEARS
		017.261-018	DETAILER	4	4	4	TWO TO FOUR YEARS
		017.261-022	DETAILER, FURNITURE	4	4	4	TWO TO FOUR YEARS
		017.261-030	DRAFTER, DETAIL	4	4	4	TWO TO FOUR YEARS
		017.261-042	DRAFTER, COMPUTER-ASSISTED	4	4	4	TWO TO FOUR YEARS
		017.281-010	AUTO-DESIGN DETAILER	4	4	3	ONE TO TWO YEARS
		017.281-014	DRAFTER APPRENTICE	5	5	4	TWO TO FOUR YEARS
		017.281-018	DRAFTER, ASSISTANT	4	4	3	TWO TO FOUR YEARS
		017.281-022	DRAFTER, AUTOMOTIVE DESIGN	5	4	4	TWO TO FOUR YEARS
		017.281-026	DRAFTER, AUTOMOTIVE DESIGN LAY-OUT	4	4	3	TWO TO FOUR YEARS
		017.281-030	DRAFTER, OIL AND GAS	4	4	3	TWO TO FOUR YEARS

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OCCUPATION: 3730

SURVEYING AND MAPPING TECHNICIANS

These workers help surveyors and cartographers identify natural and political boundaries, land formations, and distances. This information is used for legal descriptions, construction data, or map-making. Workers may operate survey equipment, record distances and angles, or obtain photographs, survey notes, and legal records. They use technical and drafting tools to plot elevations, draw maps, or make charts and graphs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 3733

SURVEYING TECHNICIANS

SURVEYING TECHNICIANS help surveyors determine the location boundaries of land areas for construction, mining, and other purposes. PARTY CHIEFS are SURVEYING TECHNICIANS who lead the day-to-day work activities of a survey. INSTRUMENT ASSISTANTS adjust and operate survey instruments and equipment. They also compile notes, make sketches, and keep records of data obtained during field surveys.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0206	SOIL AND WATER MECHANICAL PRACTICES	018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS
14.2602	CARTOGRAPHY	*018.167-010	CHIEF OF PARTY	5 5 4	TWO TO FOUR YEARS
		*018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS
15.0201	CIVIL TECHNOLOGY	018.167-010	CHIEF OF PARTY	5 5 4	TWO TO FOUR YEARS
		018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	018.167-010	CHIEF OF PARTY	5 5 4	TWO TO FOUR YEARS
		018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS
15.0901	COAL MINING TECHNOLOGY	018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS
15.0902	MINING (EXCLUDING COAL) TECHNOLOGY	018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS
15.1001	CONSTRUCTION TECHNOLOGY	*018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	5 5 4	TWO TO FOUR YEARS

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OCCUPATION: 3734

CARTOGRAPHIC TECHNICIANS

These workers plan, design, draw, and edit maps and charts. Some supervise map production. They work from survey notes, photographs, and land records to prepare maps, charts, and drawings that show land features. They determine the location and names of natural and constructed features, political boundaries, and other features. They use drafting, mapping, and other precision tools to complete and measure scaled distances and prepare the maps.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
14.2602	CARTOGRAPHY	*018.131-010	SUPERVISOR, CARTOGRAPHY	5	5	5	FOUR TO TEN YEARS
		*018.167-030	SUPERVISOR, MAPPING	4	4	4	TWO TO FOUR YEARS
		*018.261-010	DRAFTER, CARTOGRAPHIC	4	4	3	TWO TO FOUR YEARS
		*018.261-014	DRAFTER, TOPOGRAPHICAL	5	5	5	TWO TO FOUR YEARS
		*018.261-018	EDITOR, MAP	4	4	4	TWO TO FOUR YEARS
		*018.261-022	MOSAICIST	4	4	4	TWO TO FOUR YEARS
15.0201	CIVIL TECHNOLOGY	*018.281-010	STEREO-PLOTTER OPERATOR	4	4	4	TWO TO FOUR YEARS
		018.131-010	SUPERVISOR, CARTOGRAPHY	5	5	5	FOUR TO TEN YEARS
15.0202	DRAFTING AND DESIGN TECHNOLOGY	018.131-010	SUPERVISOR, CARTOGRAPHY	5	5	5	FOUR TO TEN YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	018.131-010	SUPERVISOR, CARTOGRAPHY	5	5	5	FOUR TO TEN YEARS
		018.167-030	SUPERVISOR, MAPPING	4	4	4	TWO TO FOUR YEARS
		018.261-010	DRAFTER, CARTOGRAPHIC	4	4	3	TWO TO FOUR YEARS
		018.261-014	DRAFTER, TOPOGRAPHICAL	5	5	5	TWO TO FOUR YEARS
		018.261-018	EDITOR, MAP	4	4	4	TWO TO FOUR YEARS
		018.261-022	MOSAICIST	4	4	4	TWO TO FOUR YEARS
48.0103	CIVIL/STRUCTURAL DRAFTING	018.281-010	STEREO-PLOTTER OPERATOR	4	4	4	TWO TO FOUR YEARS
		018.261-010	DRAFTER, CARTOGRAPHIC	4	4	3	TWO TO FOUR YEARS
		018.261-014	DRAFTER, TOPOGRAPHICAL	5	5	5	TWO TO FOUR YEARS
		018.281-010	STEREO-PLCTTER OPERATOR	4	4	4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3739

SURVEYING TECHNICIANS, N.E.C.

These workers help prepare information used in mapmaking. They study field notes, photographs, and other information collected by engineering survey parties. They use this information to compute the angles, areas, and directions of land formations. They work from reference tables and use calculators or computers to perform math calculations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
14.2602	CARTOGRAPHY	*018.167-014	GEODETIC COMPUTER	5 5 4 ONE TO TWO YEARS
		*018.261-026	PHOTOGRAMMETRIST	4 4 4 TWO TO FOUR YEARS
15.0201	CIVIL TECHNOLOGY	018.167-014	GEODETIC COMPUTER	5 5 4 ONE TO TWO YEARS
15.0203	SURVEYING AND MAPPING TECHNOLOGY	018.261-026	PHOTOGRAMMETRIST	4 4 4 TWO TO FOUR YEARS

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OCCUPATION: 3800

SCIENCE TECHNOLOGISTS AND TECHNICIANS

These workers use scientific, mathematical, and technical skills to help scientists and engineers develop and test products and ideas. They may carry out experiments to improve production or test for quality control. They may use mathematics to test theories and ideas of engineers and scientists. Some work with nuclear matter, measuring radiation levels. Some record the results of experiments and projects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3820

BIOLOGICAL TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH

These people work in labs, where they perform tests and run experiments to help scientists develop better ways of producing plant and animal products. Their work varies from looking for ways to increase production from animals to trying to improve the quality of natural fibers. Some are involved in animal breeding or the development of new types of seeds. Others study the effects of various feeds on animal growth and health.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	022.081-010	TOXICOLOGIST	5	4 5	FOUR TO TEN YEARS
		040.061-026	FIBER TECHNOLOGIST	6	6 6	FOUR TO TEN YEARS
		049.364-014	VECTOR CONTROL ASSISTANT	4	2 3	SIX TO 12 MONTHS
01.0302	ANIMAL PRODUCTION	040.361-010	LABORATORY TECHNICIAN, ARTIFICIAL B	4	4 4	SIX TO 12 MONTHS
		049.364-010	FEED-RESEARCH AIDE	3	2 2	THREE TO SIX MONTHS
		049.384-010	BIOLOGICAL AIDE	3	3 3	ONE TO TWO YEARS
		411.364-010	BLOOD TESTER, FOWL	3	2 2	UP TO 30 DAYS
		411.384-010	POULTRY INSEMINATOR	3	2 2	30 TO 90 DAYS
		418.384-010	ARTIFICIAL INSEMINATOR	3	3 2	30 TO 90 DAYS
		418.384-014	ARTIFICIAL-BREEDING TECHNICIAN	3	3 2	ONE TO TWO YEARS
01.0304	CROP PRODUCTION	040.361-014	SEED ANALYST	4	4 4	TWO TO FOUR YEARS
		049.384-010	BIOLOGICAL AIDE	3	3 3	ONE TO TWO YEARS
01.0502	AGRICULTURAL SERVICES	040.361-010	LABORATORY TECHNICIAN, ARTIFICIAL B	4	4 4	SIX TO 12 MONTHS
		411.364-010	BLOOD TESTER, FOWL	3	2 2	UP TO 30 DAYS
		411.384-010	POULTRY INSEMINATOR	3	2 2	30 TO 90 DAYS
		418.384-010	ARTIFICIAL INSEMINATOR	3	3 2	30 TO 90 DAYS
		418.384-014	ARTIFICIAL-BREEDING TECHNICIAN	3	3 2	ONE TO TWO YEARS
01.0602	ARBORICULTURE	408.181-010	TREE SURGEON	4	2 2	ONE TO TWO YEARS
01.0603	ORNAMENTAL HORTICULTURE	408.181-010	TREE SURGEON	4	2 2	ONE TO TWO YEARS
02.0202	ANIMAL BREEDING AND GENETICS	040.361-010	LABORATORY TECHNICIAN, ARTIFICIAL B	4	4 4	SIX TO 12 MONTHS
		418.384-010	ARTIFICIAL INSEMINATOR	3	3 2	30 TO 90 DAYS
		418.384-014	ARTIFICIAL-BREEDING TECHNICIAN	3	3 2	ONE TO TWO YEARS
02.0204	ANIMAL NUTRITION	049.364-010	FEED-RESEARCH AIDE	3	2 2	THREE TO SIX MONTHS
02.0206	DAIRY	040.061-022	DAIRY TECHNOLOGIST	6	6 6	FOUR TO TEN YEARS
02.0209	POULTRY	411.364-010	BLOOD TESTER, FOWL	3	2 2	UP TO 30 DAYS

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OCCUPATION: 3820 BIOLOGICAL TECHNOLOGISTS AND TECHNICIANS, EXCEPT HE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		411.384-010	POULTRY INSEMINATOR	3 2 2	30 TO 90 DAYS
02.0301	FOOD SCIENCES	*040.061-022	DAIRY TECHNOLOGIST	6 6 6	FOUR TO TEN YEARS
02.0402	AGRONOMY	040.361-014	SEED ANALYST	4 4 4	TWO TO FOUR YEARS
		049.384-010	BIOLOGICAL AIDE	3 3 3	ONE TO TWO YEARS
02.0403	HORTICULTURE SCIENCE	049.384-010	BIOLOGICAL AIDE	3 3 3	ONE TO TWO YEARS
18.0202	CLINICAL BIOCHEMISTRY	*022.081-010	TOXICOLOGIST	5 4 5	FOUR TO TEN YEARS
18.0203	CLINICAL MICROBIOLOGY	*022.081-010	TOXICOLOGIST	5 4 5	FOUR TO TEN YEARS
18.0206	CLINICAL TOXICOLOGY	*022.081-010	TOXICOLOGIST	5 4 5	FOUR TO TEN YEARS
18.2202	EPIDEMIOLOGY	*049.364-014	VECTOR CONTROL ASSISTANT	4 2 3	SIX TO 12 MONTHS
18.2204	PUBLIC HEALTH PRACTICE AND MANAGEMENT	*049.364-014	VECTOR CONTROL ASSISTANT	4 2 3	SIX TO 12 MONTHS
19.0904	TEXTILE SCIENCE	*040.061-026	FIBER TECHNOLOGIST	6 6 6	FOUR TO TEN YEARS
26.0612	TOXICOLOGY	*022.081-010	TOXICOLOGIST	5 4 5	FOUR TO TEN YEARS
40.0502	ANALYTICAL CHEMISTRY	*022.081-010	TOXICOLOGIST	5 4 5	FOUR TO TEN YEARS
40.0505	PHARMACEUTICAL CHEMISTRY	*022.081-010	TOXICOLOGIST	5 4 5	FOUR TO TEN YEARS
41.0101	BIOLOGICAL LABORATORY TECHNOLOGY	041.381-010	BIOLOGY SPECIMEN TECHNICIAN	4 3 3	TWO TO FOUR YEARS
		049.384-010	BIOLOGICAL AIDE	3 3 3	ONE TO TWO YEARS
41.0102	OCEANOGRAPHIC (BIOLOGICAL) TECHNOLOGY	041.381-010	BIOLOGY SPECIMEN TECHNICIAN	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 3830

CHEMICAL AND NUCLEAR TECHNOLOGISTS AND TECHNICIANS

These workers test chemicals, petroleum products, and nuclear materials for scientists and engineers. They may do research to develop new products or test for quality control. They may prepare nuclear materials for shipping, test radiation levels, and record data from experiments. They use computers, complex lab equipment, and mathematical skills as they research and test materials and products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3831

CHEMICAL TECHNOLOGISTS AND TECHNICIANS

These people help chemists and chemical engineers develop and test chemicals and related products and equipment. Most do research and development work. Some work in production, where they put into operation the processes and products developed in the research labs. They also test materials, processes, and products to make sure they meet standards. Many workers in these jobs use computers and complex lab equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	022.161-014	COLORIST	5	5	4	TWO TO FOUR YEARS
		022.161-018	PERFUMER	5	5	4	TWO TO FOUR YEARS
		022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5	4	3	TWO TO FOUR YEARS
		022.261-018	CHEMIST, INSTRUMENTATION	5	5	4	TWO TO FOUR YEARS
		022.261-022	CHEMIST, WASTEWATER-TREATMENT PLANT	5	5	4	TWO TO FOUR YEARS
		022.281-010	ASSAYER	5	5	4	TWO TO FOUR YEARS
		022.281-014	CHEMIST, WATER PURIFICATION	6	6	6	TWO TO FOUR YEARS
		029.261-010	LABORATORY TESTER	4	4	3	SIX TO 12 MONTHS
		029.361-014	FOOD TESTER	5	5	4	SIX TO 12 MONTHS
02.0301	FOOD SCIENCES	022.261-014	MALT-SPECIFICATIONS-CONTROL ASSISTANT	4	4	3	TWO TO FOUR YEARS
		022.381-010	YEAST-CULTURE DEVELOPER	4	2	4	SIX TO 12 MONTHS
		029.261-010	LABORATORY TESTER	4	4	3	SIX TO 12 MONTHS
		029.361-014	FOOD TESTER	5	5	4	SIX TO 12 MONTHS
15.0504	SANITATION TECHNOLOGY	029.361-014	FOOD TESTER	5	5	4	SIX TO 12 MONTHS
15.0602	FOOD PROCESSING TECHNOLOGY	022.261-014	MALT-SPECIFICATIONS-CONTROL ASSISTANT	4	4	3	TWO TO FOUR YEARS
		022.381-010	YEAST-CULTURE DEVELOPER	4	2	4	SIX TO 12 MONTHS
		029.261-010	LABORATORY TESTER	4	4	3	SIX TO 12 MONTHS
		029.361-014	FOOD TESTER	5	5	4	SIX TO 12 MONTHS
15.0609	TEXTILE TECHNOLOGY	022.281-018	LABORATORY TESTER	4	3	3	ONE TO TWO YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	029.261-010	LABORATORY TESTER	4	4	3	SIX TO 12 MONTHS
15.0903	PETROLEUM TECHNOLOGY	029.261-010	LABORATORY TESTER	4	4	3	SIX TO 12 MONTHS
40.0502	ANALYTICAL CHEMISTRY	*022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5	4	3	TWO TO FOUR YEARS
		*022.281-010	ASSAYER	5	5	4	TWO TO FOUR YEARS
40.0503	INORGANIC CHEMISTRY	*022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5	4	3	TWO TO FOUR YEARS
		*022.281-010	ASSAYER	5	5	4	TWO TO FOUR YEARS
40.0504	ORGANIC CHEMISTRY	*022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5	4	3	TWO TO FOUR YEARS

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OCCUPATION: 3831 CHEMICAL TECHNOLOGISTS AND TECHNICIANS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		*022.281-010	ASSAYER	5 5 4	TWO TO FOUR YEARS
40.0505	PHARMACEUTICAL CHEMISTRY	*022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5 4 3	TWO TO FOUR YEARS
		*022.281-010	ASSAYER	5 5 4	TWO TO FOUR YEARS
40.0506	PHYSICAL CHEMISTRY	*022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5 4 3	TWO TO FOUR YEARS
		*022.281-010	ASSAYER	5 5 4	TWO TO FOUR YEARS
40.0602	GEOCHEMISTRY	*022.281-010	ASSAYER	5 5 4	TWO TO FOUR YEARS
41.0301	CHEMICAL TECHNOLOGY	022.161-018	PERFUMER	5 5 4	TWO TO FOUR YEARS
		022.261-010	CHEMICAL-LABORATORY TECHNICIAN	5 4 3	TWO TO FOUR YEARS
		022.281-010	ASSAYER	5 5 4	TWO TO FOUR YEARS
		029.261-010	LABORATORY TESTER	4 4 3	SIX TO 12 MONTHS
41.0302	GEOLOGICAL TECHNOLOGY	029.261-010	LABORATORY TESTER	4 4 3	SIX TO 12 MONTHS

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OCCUPATION: 3832

NUCLEAR TECHNOLOGISTS AND TECHNICIANS

These people work with radioactive materials. Some use remote control devices to prepare nuclear matter for shipping. Some test nuclear materials, or measure levels of radiation in work areas. Some record information about nuclear experiments and operations. These workers often use math formulas and complex instruments and equipment. They must use caution in performing their jobs, as the materials they work with are extremely dangerous.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	015.362-010	ACCELERATOR OPERATOR	5	4	5	TWO TO FOUR YEARS
40.0802	ATOMIC/MOLECULAR PHYSICS	*015.362-010	ACCELERATOR OPERATOR	5	4	5	TWO TO FOUR YEARS
		*015.362-014	GAMMA-FACILITIES OPERATOR	4	4	4	TWO TO FOUR YEARS
		*015.384-010	SCANNER	4	3	4	ONE TO TWO YEARS
40.0806	NUCLEAR PHYSICS	*015.362-010	ACCELERATOR OPERATOR	5	4	5	TWO TO FOUR YEARS
		*015.362-014	GAMMA-FACILITIES OPERATOR	4	4	4	TWO TO FOUR YEARS
		*015.362-018	HOT-CELL TECHNICIAN	4	3	4	TWO TO FOUR YEARS
		*015.362-022	RADIOISOTOPE-PRODUCTION OPERATOR	4	3	4	ONE TO TWO YEARS
		*015.362-026	REACTOR OPERATOR, TEST-AND-RESEARCH	4	4	4	TWO TO FOUR YEARS
*015.384-010	SCANNER	4	3	4	ONE TO TWO YEARS		
41.0201	NUCLEAR MATERIALS HANDLING TECHNOLOGY	015.362-018	HOT-CELL TECHNICIAN	4	3	4	TWO TO FOUR YEARS
41.0202	NUCLEAR POWER PLANT OPERATION TECHNOLOGY	015.362-026	REACTOR OPERATOR, TEST-AND-RESEARCH	4	4	4	TWO TO FOUR YEARS
41.0203	NUCLEAR POWER PLANT RADIATION CONTROL TE	015.362-026	REACTOR OPERATOR, TEST-AND-RESEARCH	4	4	4	TWO TO FOUR YEARS
		199.167-010	RADIATION MONITOR	4	4	4	ONE TO TWO YEARS
41.0204	RADIOLOGIC (PHYSICAL) TECHNOLOGY	015.362-014	GAMMA-FACILITIES OPERATOR	4	4	4	TWO TO FOUR YEARS
		015.362-022	RADIOISOTOPE-PRODUCTION OPERATOR	4	3	4	ONE TO TWO YEARS
		015.384-010	SCANNER	4	3	4	ONE TO TWO YEARS

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OCCUPATION: 3833

PETROLEUM TECHNOLOGISTS AND TECHNICIANS

These workers do technical tasks to support the prospecting, drilling, and production operations of an oil company. Some use special instruments to find land areas that contain oil deposits or to determine the amount of oil or gas a well will produce. Some collect information on the drilling, exploration, and leasing activities of other companies in order to identify promising areas to explore and lease. Some classify and sort rocks and fossils taken from a well to prepare them for lab tests. Some analyze samples of mud and drill cuttings to see if they contain oil or gas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
14.2501	PETROLEUM ENGINEERING	*010.261-018	OBSERVER, GRAVITY PROSPECTING	4	4 4	ONE TO TWO YEARS
		*010.261-022	SURVEYOR, OIL-WELL DIRECTIONAL	5	5 5	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	010.261-014	OBSERVER, ELECTRICAL PROSPECTING	4	4 4	ONE TO TWO YEARS
		010.261-018	OBSERVER, GRAVITY PROSPECTING	4	4 4	ONE TO TWO YEARS
		010.261-022	SURVEYOR, OIL-WELL DIRECTIONAL	5	5 5	TWO TO FOUR YEARS
		010.267-010	SCOUT	5	4 4	ONE TO TWO YEARS
		010.281-022	WELL-LOGGING OPERATOR, MUD ANALYSIS	4	4 4	SIX TO 12 MONTHS
		024.267-010	GEOLOGICAL AIDE	5	5 5	FOUR TO TEN YEARS
		024.364-010	PALEONTOLOGICAL HELPER	3	2 2	ONE TO TWO YEARS
		024.381-010	LABORATORY ASSISTANT	4	4 3	SIX TO 12 MONTHS
		930.167-010	TECHNICAL OPERATOR	4	3 3	ONE TO TWO YEARS
40.0601	GEOLOGY	*024.364-010	PALEONTOLOGICAL HELPER	3	2 2	ONE TO TWO YEARS
		*024.381-010	LABORATORY ASSISTANT	4	4 3	SIX TO 12 MONTHS
40.0604	PALEONTOLOGY	*024.364-010	PALEONTOLOGICAL HELPER	3	2 2	ONE TO TWO YEARS
40.0703	EARTH SCIENCE	*024.364-010	PALEONTOLOGICAL HELPER	3	2 2	ONE TO TWO YEARS
41.0302	GEOLOGICAL TECHNOLOGY	024.364-010	PALEONTOLOGICAL HELPER	3	2 2	ONE TO TWO YEARS
		024.381-010	LABORATORY ASSISTANT	4	4 3	SIX TO 12 MONTHS

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OCCUPATION: 3840

MATHEMATICAL TECHNICIANS

MATHEMATICAL TECHNICIANS use complex math to help engineers and scientists solve specific problems in industry or research. They study information to determine the best math approach to solve specific problems. They translate this information into numerical values, equations, flow charts, and graphs. They also may change standard math formulas to meet data processing requirements.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	020.162-010	MATHEMATICAL TECHNICIAN	5 5 5	TWO TO FOUR YEARS
06.1302	OPERATIONS RESEARCH (QUANTITATIVE METHOD	*020.162-010	MATHEMATICAL TECHNICIAN	5 5 5	TWO TO FOUR YEARS
27.0301	APPLIED MATHEMATICS	*020.162-010	MATHEMATICAL TECHNICIAN	5 5 5	TWO TO FOUR YEARS

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OCCUPATION: 3890

SCIENCE TECHNOLOGISTS AND TECHNICIANS, N.E.C.

These workers perform tasks to help scientists in lab and production work. They perform lab tests and help collect and study new information. They may inspect, install, repair, or adjust equipment and read meters and gauges. They may collect and record information and write technical reports. Their job duties range from testing smoke coming from smokestacks to studying aerial photographs to detect military bases.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	012.261-014	QUALITY-CONTROL TECHNICIAN	5	5	4	TWO TO FOUR YEARS
		019.261-022	TEST TECHNICIAN	4	4	4	ONE TO TWO YEARS
		029.167-010	AERIAL-PHOTOGRAPH INTERPRETER	5	5	5	TWO TO FOUR YEARS
		029.361-018	LABORATORY ASSISTANT	5	5	5	ONE TO TWO YEARS
		029.381-010	CLOTH TESTER	4	3	4	SIX TO 12 MONTHS
		029.381-014	LABORATORY ASSISTANT	4	3	3	SIX TO 12 MONTHS
01.0204	AGRICULTURAL POWER MACHINERY	019.261-022	TEST TECHNICIAN	4	4	4	ONE TO TWO YEARS
03.0202	CONSERVATION	025.264-010	HYDROGRAPHER	4	4	4	ONE TO TWO YEARS
		029.261-014	POLLUTION-CONTROL TECHNICIAN	4	4	4	ONE TO TWO YEARS
10.0103	PHOTOGRAPHIC TECHNOLOGY	029.280-010	PHOTO-OPTICS TECHNICIAN	5	4	3	ONE TO TWO YEARS
14.0501	BIOENGINEERING AND BIOMEDICAL ENGINEERING	*019.261-010	BIOMEDICAL EQUIPMENT TECHNICIAN	4	4	4	ONE TO TWO YEARS
14.1401	ENVIRONMENTAL HEALTH ENGINEERING	*012.261-010	AIR ANALYST	5	5	4	SIX TO 12 MONTHS
		*012.281-010	SMOKE TESTER	4	4	3	SIX TO 12 MONTHS
15.0304	LASER ELECTRO-OPTIC TECHNOLOGY	019.181-010	LASER TECHNICIAN	5	4	4	TWO TO FOUR YEARS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	019.261-010	BIOMEDICAL EQUIPMENT TECHNICIAN	4	4	4	ONE TO TWO YEARS
15.0502	AIR POLLUTION CONTROL TECHNOLOGY	012.261-010	AIR ANALYST	5	5	4	SIX TO 12 MONTHS
		012.281-010	SMOKE TESTER	4	4	3	SIX TO 12 MONTHS
		029.261-014	POLLUTION-CONTROL TECHNICIAN	4	4	4	ONE TO TWO YEARS
15.0503	ENERGY CONSERVATION AND USE TECHNOLOGY	029.261-018	TEST-ENGINE OPERATOR	4	4	3	ONE TO TWO YEARS
15.0504	SANITATION TECHNOLOGY	029.361-010	BOTTLE-HOUSE QUALITY-CONTROL TECHNI	4	4	4	ONE TO TWO YEARS
15.0603	INDUSTRIAL TECHNOLOGY	012.261-014	QUALITY-CONTROL TECHNICIAN	5	5	4	TWO TO FOUR YEARS
15.0609	TEXTILE TECHNOLOGY	029.381-010	CLOTH TESTER	4	3	4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3890 SCIENCE TECHNOLOGISTS AND TECHNICIANS, NOT ELSEWHERE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		029.381-014	LABORATORY ASSISTANT	4	3	3	SIX TO 12 MONTHS
15.0801	AERONAUTICAL TECHNOLOGY	029.261-018	TEST-ENGINE OPERATOR	4	4	3	ONE TO TWO YEARS
15.0803	AUTOMOTIVE TECHNOLOGY	019.381-010	LABORATORY TECHNICIAN	4	4	4	SIX TO 12 MONTHS
		029.261-018	TEST-ENGINE OPERATOR	4	4	3	ONE TO TWO YEARS
15.0903	PETROLEUM TECHNOLOGY	029.261-022	TESTER	4	4	3	ONE TO TWO YEARS
19.0904	TEXTILE SCIENCE	*029.381-010	CLOTH TESTER	4	3	4	SIX TO 12 MONTHS
		*029.381-014	LABORATORY ASSISTANT	4	3	3	SIX TO 12 MONTHS
40.0401	ATMOSPHERIC SCIENCES AND METEOROLOGY	*025.267-014	WEATHER OBSERVER	4	4	4	ONE TO TWO YEARS
40.0702	OCEANOGRAPHY	*025.267-010	OCEANOGRAPHER, ASSISTANT	5	5	4	TWO TO FOUR YEARS
40.0807	OPTICS	*029.280-010	PHOTO-OPTICS TECHNICIAN	5	4	3	ONE TO TWO YEARS
40.0901	PLANETARY SCIENCE	*025.267-010	OCEANOGRAPHER, ASSISTANT	5	5	4	TWO TO FOUR YEARS
		*025.267-014	WEATHER OBSERVER	4	4	4	ONE TO TWO YEARS
41.0203	NUCLEAR POWER PLANT RADIATION CONTROL TECH	015.261-010	CHEMICAL-RADIATION TECHNICIAN	4	3	3	ONE TO TWO YEARS
41.0304	METEOROLOGICAL TECHNOLOGY	025.267-010	OCEANOGRAPHER, ASSISTANT	5	5	4	TWO TO FOUR YEARS
		025.267-014	WEATHER OBSERVER	4	4	4	ONE TO TWO YEARS
41.0305	OCEANOGRAPHIC (PHYSICAL) TECHNOLOGY	025.264-010	HYDROGRAPHER	4	4	4	ONE TO TWO YEARS
		025.267-010	OCEANOGRAPHER, ASSISTANT	5	5	4	TWO TO FOUR YEARS
43.0104	CRIMINAL JUSTICE STUDIES	*029.281-010	CRIMINALIST	5	4	5	TWO TO FOUR YEARS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	029.281-010	CRIMINALIST	5	4	5	TWO TO FOUR YEARS
45.0401	CRIMINOLOGY	*029.281-010	CRIMINALIST	5	4	5	TWO TO FOUR YEARS
49.0304	DEEP WATER DIVING AND LIFE SUPPORT SYSTEMS	029.383-010	PILOT, SUBMERSIBLE	5	3	4	SIX TO 12 MONTHS

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OCCUPATION: 3900

TECHNICIANS: EXCEPT HEALTH, ENGINEERING, AND SCIENCE

These workers use specialized knowledge to complete technical tasks such as writing computer programs for business or industry, controlling air traffic in airports, or writing technical manuals. They may work with radio broadcast equipment, communicating with ships, transmitting radio photographs, or producing TV programs. Some work with such technical information as legal briefs, wills, and contracts, while others may decode emergency or defense messages.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3920

AIR TRAFFIC CONTROLLERS

These workers direct and control air traffic while planes and other aircraft take off, land, and are in the air. They keep track of planes flying in their assigned area and talk to the pilots by radio to give them instructions and information. Their first concern is safety, but they must also make sure that planes quickly enter and leave the airport to cut down on delays. Some regulate airport traffic. Others regulate flights between airports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
49.0104	AVIATION MANAGEMENT	*193.167-010	CHIEF CONTROLLER	5 4 4	TWO TO FOUR YEARS
49.0105	AIR TRAFFIC CONTROL	193.162-010	AIR-TRAFFIC COORDINATOR	4 3 4	FOUR TO TEN YEARS
		193.162-014	AIR-TRAFFIC-CONTROL SPECIALIST, STA	4 3 4	TWO TO FOUR YEARS
		193.162-018	AIR-TRAFFIC-CONTROL SPECIALIST, TOW	4 3 4	FOUR TO TEN YEARS
		193.167-010	CHIEF CONTROLLER	5 4 4	TWO TO FOUR YEARS
		912.167-010	DISPATCHER	5 4 4	FOUR TO TEN YEARS

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OCCUPATION: 3930

RADIO OPERATORS

These workers operate radio equipment to communicate with aircraft, ships, or other ground stations, or to transmit radio and TV broadcasts. They also may test, repair, and maintain the equipment. Their jobs vary. Some send weather and other information to flight crews. Some send and receive radio photographs. Some receive radio signals from emergency units, enemy groups, or ships in distress. Some control sight and sound equipment used in TV broadcasting.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	193.262-014	DISPATCHER	4	3	4	ONE TO TWO YEARS
		193.262-022	RADIO OFFICER	4	3	3	TWO TO FOUR YEARS
		193.262-026	RADIO STATION OPERATOR	5	4	4	ONE TO TWO YEARS
		193.262-030	RADIOTELEGRAPH OPERATOR	4	2	3	TWO TO FOUR YEARS
		193.262-034	RADIOTELEPHONE OPERATOR	4	3	4	TWO TO FOUR YEARS
09.0601	RADIO/TELEVISION NEWS BROADCASTING	*194.262-010	AUDIO OPERATOR	4	4	3	TWO TO FOUR YEARS
		*194.282-010	VIDEO OPERATOR	5	4	5	TWO TO FOUR YEARS
		*194.362-018	TELECINE OPERATOR	4	4	3	TWO TO FOUR YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROA	193.167-014	FIELD SUPERVISOR, BROADCAST	5	4	5	TWO TO FOUR YEARS
		193.262-018	FIELD ENGINEER	5	4	5	TWO TO FOUR YEARS
		193.262-038	TRANSMITTER OPERATOR	4	4	4	TWO TO FOUR YEARS
		194.262-010	AUDIO OPERATOR	4	4	3	TWO TO FOUR YEARS
		194.282-010	VIDEO OPERATOR	5	4	5	TWO TO FOUR YEARS
		194.362-018	TELECINE OPERATOR	4	4	3	TWO TO FOUR YEARS
10.0105	SOUND RECORDING TECHNOLOGY	*194.262-010	AUDIO OPERATOR	4	4	3	TWO TO FOUR YEARS
		*194.362-018	TELECINE OPERATOR	4	4	3	TWO TO FOUR YEARS
10.0106	VIDEO TECHNOLOGY	*194.282-010	VIDEO OPERATOR	5	4	5	TWO TO FOUR YEARS
47.0103	COMMUNICATION ELECTRONICS	193.362-010	PHOTORADIO OPERATOR	4	4	4	ONE TO TWO YEARS
		193.362-014	RADIO-INTELLIGENCE OPERATOR	4	3	4	ONE TO TWO YEARS
		193.382-010	ELECTRONIC INTELLIGENCE OPERATIONS	4	3	4	TWO TO FOUR YEARS
49.0105	AIR TRAFFIC CONTROL	193.162-022	AIRLINE-RADIO OPERATOR, CHIEF	4	4	4	FOUR TO TEN YEARS
		193.262-010	AIRLINE-RADIO OPERATOR	4	4	4	TWO TO FOUR YEARS
50.0606	VIDEO	*194.282-010	VIDEO OPERATOR	5	4	5	TWO TO FOUR YEARS

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OCCUPATION: 3960

LEGAL TECHNICIANS

LEGAL TECHNICIANS assist lawyers and others in the legal field. They do such things as search for public records and prepare lists or summaries of legal documents. Some study papers to see if they meet legal requirements. Others hold funds and records until legal contracts are fulfilled. Sometimes they help lawyers prepare drafts of legal documents such as briefs, wills, contracts, deeds, sworn statements, or patent applications.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	119.167-014	PATENT AGENT	6 5 6	TWO TO FOUR YEARS
		119.367-010	ESCROW OFFICER	4 3 3	FOUR TO TEN YEARS
		209.367-046	TITLE SEARCHER	3 1 3	SIX TO 12 MONTHS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	119.167-018	TITLE SUPERVISOR	5 3 5	FOUR TO TEN YEARS
22.0103	LEGAL ASSISTING	119.167-018	TITLE SUPERVISOR	5 3 5	FOUR TO TEN YEARS
		119.267-010	ABTRACTOR	5 3 5	ONE TO TWO YEARS
		119.267-018	CONTRACT CLERK	5 2 5	TWO TO FOUR YEARS
		119.267-022	LEGAL INVESTIGATOR	5 2 5	TWO TO FOUR YEARS
		119.267-026	PARALEGAL ASSISTANT	5 2 5	TWO TO FOUR YEARS
		119.287-010	TITLE EXAMINER	5 3 5	TWO TO FOUR YEARS
		162.267-010	TITLE CLERK	5 4 5	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3970

PROGRAMMERS

Workers in these occupations write computer programs for use in business, research, and industry. The programs they write may do audits, keep billing and payroll records, and handle other kinds of information. Programs are also used to control machining processes or to solve math, engineering, and scientific problems. Programmers study the job to be done by the computer and write detailed, coded instructions to the computer for each task it needs to do to complete the job.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3971

PROGRAMMERS, BUSINESS

These workers write computer programs to help businesses do audits, keep payroll records, and handle other types of information. Programs are detailed instructions that list steps machines must follow to organize data, solve problems, or do other tasks. PROGRAMMERS write specific programs for each problem. They break each step into a series of coded instructions, using one of the languages developed for computers. They test the programs and then prepare instruction sheets for workers to use in running them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.1201	MANAGEMENT INFORMATION SYSTEMS	*020.162-014	PROGRAMER, BUSINESS	5 5 4	TWO TO FOUR YEARS
		*020.187-010	PROGRAMER, INFORMATION SYSTEM	5 5 5	TWO TO FOUR YEARS
07.0305	BUSINESS DATA PROGRAMMING	020.162-014	PROGRAMER, BUSINESS	5 5 4	TWO TO FOUR YEARS
		020.167-018	PROGRAMER, CHIEF, BUSINESS	5 5 5	TWO TO FOUR YEARS
		020.187-010	PROGRAMER, INFORMATION SYSTEM	5 5 5	TWO TO FOUR YEARS
		020.262-010	SOFTWARE TECHNICIAN	5 4 4	TWO TO FOUR YEARS
11.0601	MICROCOMPUTER APPLICATIONS	*020.162-014	PROGRAMER, BUSINESS	5 5 4	TWO TO FOUR YEARS
		020.167-018	PROGRAMER, CHIEF, BUSINESS	5 5 5	TWO TO FOUR YEARS
		*020.187-010	PROGRAMER, INFORMATION SYSTEM	5 5 5	TWO TO FOUR YEARS
		*020.262-010	SOFTWARE TECHNICIAN	5 4 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3972

PROGRAMMERS, SCIENTIFIC

These people write computer programs to help solve math, engineering, and scientific problems. Programs are detailed instructions that list the steps computers must follow to organize data or solve a problem. PROGRAMMERS study problem descriptions and then write specific programs for each problem. They break down coded instructions, using one of the special languages developed for computers. They test the programs to see if they work correctly and then prepare instructions for workers to use in running them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.1201	MANAGEMENT INFORMATION SYSTEMS	*020.167-022	PROGRAMER, ENGINEERING AND SCIENTIF	6 6 6	FOUR TO TEN YEARS
11.0201	COMPUTER PROGRAMMING	020.167-022	PROGRAMER, ENGINEERING AND SCIENTIF	6 6 6	FOUR TO TEN YEARS
11.0301	DATA PROCESSING	020.167-022	PROGRAMER, ENGINEERING AND SCIENTIF	6 6 6	FOUR TO TEN YEARS
11.0601	MICROCOMPUTER APPLICATIONS	*020.167-022	PROGRAMER, ENGINEERING AND SCIENTIF	6 6 6	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3974

PROGRAMMERS: NUMERICAL, TOOL, AND PROCESS CONTROL

These people write computer programs used in industry to control machine processes. They study drawings and design data (information) to find out how machines work, and then write step-by-step instructions for the machines to follow in making a product or controlling a system. Some write programs used in steel making, fuel recovery, product testing, and other process control systems. Others write instructions for machines to follow in shaping metal parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0305	BUSINESS DATA PROGRAMMING	020.187-014	PROGRAMER, PROCESS CONTROL	5 5 5	TWO TO FOUR YEARS
11.0201	COMPUTER PROGRAMMING	007.167-018	TOOL PROGRAMER, NUMERICAL CONTROL	5 4 4	FOUR TO TEN YEARS
		020.187-014	PROGRAMER, PROCESS CONTROL	5 5 5	TWO TO FOUR YEARS
11.0301	DATA PROCESSING	007.167-018	TOOL PROGRAMER, NUMERICAL CONTROL	5 4 4	FOUR TO TEN YEARS
		020.187-014	PROGRAMER, PROCESS CONTROL	5 5 5	TWO TO FOUR YEARS
11.0601	MICROCOMPUTER APPLICATIONS	020.187-014	PROGRAMER, PROCESS CONTROL	5 5 5	TWO TO FOUR YEARS
30.0801	MATHEMATICS AND COMPUTER SCIENCE	007.167-018	TOOL PROGRAMER, NUMERICAL CONTROL	5 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 3960

TECHNICAL WRITERS

These people research, write, and edit technical materials. They put technical information into readable language. They study reports, blueprints and other technical matter and talk with engineers or scientists to get information. They use this information to write manuals, training materials, and research reports. They write proposals to get money to conduct projects, develop products, or do research. A few write speeches and news releases. They also may prepare tables, charts, and artwork for publication.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- CODE TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GED- R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	131.267-026 WRITER, TECHNICAL PUBLICATIONS	5 3 5 TWO TO FOUR YEARS
23.1101 TECHNICAL AND BUSINESS WRITING	*131.267-026 WRITER, TECHNICAL PUBLICATIONS	5 3 5 TWO TO FOUR YEARS

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OCCUPATION: 3990

TECHNICIANS, N.E.C.

Workers in these jobs perform various tasks that require special skills and knowledge. For example, some identify fingerprints or decode secret messages. Some stuff and mount dead animals or preserve human corpses. Some explore areas of land to find mineral deposits. Some help plan cities. Many of these jobs require specialized training in a particular field. Others may be learned through on-the-job training.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	024.284-010	PROSPECTOR	4	4	4	TWO TO FOUR YEARS
		041.384-010	HERBARIUM WORKER	4	3	4	SIX TO 12 MONTHS
		102.367-010	FINE ARTS PACKER	4	3	3	TWO TO FOUR YEARS
		199.171-010	PROOF TECHNICIAN	4	4	4	ONE TO TWO YEARS
		199.251-010	TESTER, FOOD PRODUCTS	4	3	4	ONE TO TWO YEARS
		199.261-010	TAXIDERMIST	5	3	4	TWO TO FOUR YEARS
		199.261-014	PARKING ANALYST	5	4	5	TWO TO FOUR YEARS
		199.267-018	EXAMINATION PROCTOR	4	3	4	SIX TO 12 MONTHS
		199.267-034	RESEARCH ASSISTANT II	5	3	5	ONE TO TWO YEARS
		199.361-010	RADIOGRAPHER	4	4	4	SIX TO 12 MONTHS
		199.384-010	DECONTAMINATOR	3	3	3	ONE TO TWO YEARS
		199.682-010	AEROSPACE PHYSIOLOGICAL TECHNICIAN	4	3	3	ONE TO TWO YEARS
		962.281-018	SPECIAL EFFECTS SPECIALIST	4	3	3	ONE TO TWO YEARS
		962.381-014	LIGHTING-EQUIPMENT OPERATOR	4	2	3	ONE TO TWO YEARS
		962.384-010	MICROPHONE-BOOM OPERATOR	3	1	2	SIX TO 12 MONTHS
		962.664-010	HIGH RIGGER	3	2	2	ONE TO TWO YEARS
		969.664-010	FIREWORKS DISPLAY SPECIALIST	4	2	2	SIX TO 12 MONTHS
03.0404	FOREST PRODUCTS PROCESSING TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4	4	ONE TO TWO YEARS
04.0301	CITY, COMMUNITY, AND REGIONAL PLANNING	*199.261-014	PARKING ANALYST	5	4	5	TWO TO FOUR YEARS
		*199.364-010	CITY PLANNING AIDE	4	4	4	ONE TO TWO YEARS
04.0701	URBAN DESIGN	*199.261-014	PARKING ANALYST	5	4	5	TWO TO FOUR YEARS
		*199.364-010	CITY PLANNING AIDE	4	4	4	ONE TO TWO YEARS
10.0101	EDUCATIONAL MEDIA TECHNOLOGY	962.362-010	COMMUNICATIONS TECHNICIAN	4	2	3	TWO TO FOUR YEARS
10.0102	MOTION PICTURE TECHNOLOGY	962.257-010	SIGHT-EFFECTS SPECIALIST	4	3	3	FOUR TO TEN YEARS
		962.362-010	COMMUNICATIONS TECHNICIAN	4	2	3	TWO TO FOUR YEARS
		962.362-014	LIGHT TECHNICIAN	4	2	3	TWO TO FOUR YEARS
		962.382-010	RECORDIST	3	2	2	ONE TO TWO YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROADCASTING	199.387-010	TELEVISION-SCHEDULE COORDINATOR	4	3	4	THREE TO SIX MONTHS

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OCCUPATION: 3990 TECHNICIANS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		962.281-014	SOUND-EFFECTS TECHNICIAN	4 3 4	ONE TO TWO YEARS
		962.362-014	LIGHT TECHNICIAN	4 2 3	TWO TO FOUR YEARS
10.0105	SOUND RECORDING TECHNOLOGY	*962.281-014	SOUND-EFFECTS TECHNICIAN	4 3 4	ONE TO TWO YEARS
		*962.382-010	RECORDIST	3 2 2	ONE TO TWO YEARS
10.0106	VIDEO TECHNOLOGY	*962.362-014	LIGHT TECHNICIAN	4 2 3	TWO TO FOUR YEARS
12.0301	FUNERAL SERVICES	338.371-010	EMBALMER APPRENTICE	4 4 4	TWO TO FOUR YEARS
		338.371-014	EMBALMER	4 4 4	TWO TO FOUR YEARS
13.0201	BILINGUAL/CROSSCULTURAL EDUCATION	*099.327-010	TEACHER AIDE 1	4 4 4	ONE TO TWO YEARS
13.0202	BILINGUAL EDUCATION ASSISTING	*099.327-010	TEACHER AIDE 1	4 4 4	ONE TO TWO YEARS
13.1501	TEACHER ASSISTING	*099.327-010	TEACHER AIDE 1	4 4 4	ONE TO TWO YEARS
14.1801	MATERIALS ENGINEERING	*011.261-018	NONDESTRUCTIVE TESTER	4 3 3	ONE TO TWO YEARS
15.0204	URBAN PLANNING TECHNOLOGY	199.267-030	TRAFFIC TECHNICIAN	5 4 5	TWO TO FOUR YEARS
		199.364-010	CITY PLANNING AIDE	4 4 4	ONE TO TWO YEARS
15.0302	ELECTRICAL TECHNOLOGY	726.281-010	ELECTRICIAN, RESEARCH	4 3 3	TWO TO FOUR YEARS
15.0303	ELECTRONIC TECHNOLOGY	726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTS	4 4 4	TWO TO FOUR YEARS
15.0402	COMPUTER SERVICING TECHNOLOGY	726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTS	4 4 4	TWO TO FOUR YEARS
15.0405	ROBOTICS TECHNOLOGY	*726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTS	4 4 4	TWO TO FOUR YEARS
15.0503	ENERGY CONSERVATION AND USE TECHNOLOGY	199.167-018	ENERGY-CONTROL OFFICER	4 4 4	TWO TO FOUR YEARS
15.0504	SANITATION TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4 4 4	ONE TO TWO YEARS
15.0603	INDUSTRIAL TECHNOLOGY	011.261-018	NONDESTRUCTIVE TESTER	4 3 3	ONE TO TWO YEARS
15.0609	TEXTILE TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4 4 4	ONE TO TWO YEARS
15.0610	WELDING TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4 4 4	ONE TO TWO YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	011.261-018	NONDESTRUCTIVE TESTER	4 3 3	ONE TO TWO YEARS
		199.364-014	SCIENTIFIC HELPER	4 4 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 3990 TECHNICIANS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
15.0801	AERONAUTICAL TECHNOLOGY	726.281-010	ELECTRICIAN, RESEARCH	4	3 3	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
25.0301	LIBRARY ASSISTING	100.367-018	LIBRARY TECHNICAL ASSISTANT	4	3 3	SIX TO 12 MONTHS
40.0701	METALLURGY	*011.261-018	NONDESTRUCTIVE TESTER	4	3 3	ONE TO TWO YEARS
41.0101	BIOLOGICAL LABORATORY TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
41.0102	OCEANOGRAPHIC (BIOLOGICAL) TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
41.0201	NUCLEAR MATERIALS HANDLING TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
		199.384-010	DECONTAMINATOR	3	3 3	ONE TO TWO YEARS
41.0203	NUCLEAR POWER PLANT RADIATION CONTROL TE	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
		199.384-010	DECONTAMINATOR	3	3 3	ONE TO TWO YEARS
41.0204	RADIOLOGIC (PHYSICAL) TECHNOLOGY	199.361-010	RADIOGRAPHER	4	4 4	SIX TO 12 MONTHS
		199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
41.0301	CHEMICAL TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
41.0303	METALLURGICAL TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
41.0304	METEOROLOGICAL TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
41.0305	OCEANOGRAPHIC (PHYSICAL) TECHNOLOGY	199.364-014	SCIENTIFIC HELPER	4	4 4	ONE TO TWO YEARS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	199.267-010	BALLISTICS EXPERT, FORENSIC	5	5 5	TWO TO FOUR YEARS
		199.267-026	POLYGRAPH EXAMINER	5	3 5	SIX TO 12 MONTHS
		199.267-030	TRAFFIC TECHNICIAN	5	4 5	TWO TO FOUR YEARS
		375.387-010	FINGERPRINT CLASSIFIER	4	2 3	ONE TO TWO YEARS
43.0107	LAW ENFORCEMENT	199.267-022	EXAMINER, QUESTIONED DOCUMENTS	5	2 4	ONE TO TWO YEARS
		375.387-010	FINGERPRINT CLASSIFIER	4	2 3	ONE TO TWO YEARS
45.1201	URBAN STUDIES	*199.364-010	CITY PLANNING AIDE	4	4 4	ONE TO TWO YEARS
47.0103	COMMUNICATION ELECTRONICS	726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTA	4	4 4	TWO TO FOUR YEARS
47.0104	COMPUTER ELECTRONICS	726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTA	4	4 4	TWO TO FOUR YEARS

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OCCUPATION: 3990 TECHNICIANS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0105	INDUSTRIAL ELECTRONICS	726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTS	4 4 4	TWO TO FOUR YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	199.281-010	GEMOLOGIST	4 3 4	TWO TO FOUR YEARS
50.0702	ART CONSERVATION	*102.367-010	FINE ARTS PACKER	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 3999

MARKETING AND SALES OCCUPATIONS

These workers sell goods and services to individuals and companies. They work in stores and offices or travel to meet clients in their territory. They help customers make selections, arrange credit and contract terms, accept payment, and arrange delivery. They may provide support services such as advertising, building maintenance, or debt collection. They may act as agents, buying and selling on a client's behalf and providing investment counseling.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4000

SUPERVISORS, MARKETING AND SALES OCCUPATIONS

These workers plan, supervise, and control the business operations of marketing and sales staff. They hire and train staff, establish work procedures, and set goals. They may order stock or supplies and keep business records. They may act on their own, or the owner's behalf, or in partnership. They may perform some or all of the duties of the staff they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4010

SUPERVISORS: SALES OCCUPATIONS, INSURANCE, REAL ESTATE, & BUSINESS SERVICES

These workers manage businesses or offices involved in the sale of insurance, real estate, or business services. They plan, organize, and control business operations through staff. They establish work procedures, assign duties to staff, and coordinate staff activities. They interpret and enforce company policies, prepare business reports, and help staff solve difficult problems. They direct the hiring, training, and evaluation of staff. They also approve purchase requests, resolve customer and staff complaints, and may direct sales campaigns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
01.0204	AGRICULTURAL POWER MACHINERY	185.167-026	MANAGER, MACHINERY-OR-EQUIPMENT, RE	4	4	4 ONE TO TWO YEARS
01.0503	AGRICULTURAL SUPPLIES MARKETING	185.167-026	MANAGER, MACHINERY-OR-EQUIPMENT, RE	4	4	4 ONE TO TWO YEARS
06.0801	INSURANCE AND RISK MANAGEMENT	*186.167-034	MANAGER, INSURANCE OFFICE	5	4	4 FOUR TO TEN YEARS
06.1401	MARKETING MANAGEMENT	185.167-026	MANAGER, MACHINERY-OR-EQUIPMENT, RE	4	4	4 ONE TO TWO YEARS
		186.167-034	MANAGER, INSURANCE OFFICE	5	4	4 FOUR TO TEN YEARS
		187.167-098	MANAGER, EMPLOYMENT AGENCY	4	3	4 TWO TO FOUR YEARS
		187.167-138	MANAGER, SALES	4	4	4 TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	186.167-034	MANAGER, INSURANCE OFFICE	5	4	4 FOUR TO TEN YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	185.167-026	MANAGER, MACHINERY-OR-EQUIPMENT, RE	4	4	4 ONE TO TWO YEARS
		187.167-098	MANAGER, EMPLOYMENT AGENCY	4	3	4 TWO TO FOUR YEARS
		187.167-138	MANAGER, SALES	4	4	4 TWO TO FOUR YEARS
08.0708	MARKETING, GENERAL	*185.167-026	MANAGER, MACHINERY-OR-EQUIPMENT, RE	4	4	4 ONE TO TWO YEARS
08.1001	INSURANCE MARKETING	186.167-034	MANAGER, INSURANCE OFFICE	5	4	4 FOUR TO TEN YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 4020

SUPERVISORS: SALES OCCUPATIONS (COMMODITIES EXCEPT RETAIL)

These people manage wholesale businesses. They supervise workers who receive, store, and sell wholesale products. They estimate consumer demands and determine the types and amounts of goods or services to be sold. They determine prices, credit policies, and work procedures. They plan budgets and arrange for stock to be bought for resale. They hire, train, and fire staff. They count and deposit money received, check inventories, and keep business records. They enforce safety, health, and security rules and resolve customer and staff complaints.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
06.0901	INTERNATIONAL BUSINESS MANAGEMENT	*185.157-018	WHOLESALE 2	5 4 5	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	185.157-018	WHOLESALE 2	5 4 5	TWO TO FOUR YEARS
		185.167-010	COMMISSARY MANAGER	4 4 3	ONE TO TWO YEARS
		185.167-018	MANAGER, DISTRIBUTION WAREHOUSE	5 3 4	ONE TO TWO YEARS
		185.167-030	MANAGER, MEAT SALES AND STORAGE	4 3 3	ONE TO TWO YEARS
		185.167-050	MANAGER, TEXTILE CONVERSION	4 4 4	ONE TO TWO YEARS
		185.167-054	MANAGER, TOBACCO WAREHOUSE	4 3 3	FOUR TO TEN YEARS
		185.167-070	WHOLESALE 1	5 5 4	FOUR TO TEN YEARS
		299.137-014	SALES SUPERVISOR, MALT LIQUORS	4 3 4	SIX TO 12 MONTHS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	185.167-050	MANAGER, TEXTILE CONVERSION	4 4 4	ONE TO TWO YEARS
08.0603	SPECIALTY FOODS MARKETING	185.167-030	MANAGER, MEAT SALES AND STORAGE	4 3 3	ONE TO TWO YEARS
08.0604	SUPERMARKET MARKETING	185.167-010	COMMISSARY MANAGER	4 4 3	ONE TO TWO YEARS
08.0605	WHOLESALE FOOD MARKETING	185.167-030	MANAGER, MEAT SALES AND STORAGE	4 3 3	ONE TO TWO YEARS
		185.167-070	WHOLESALE 1	5 5 4	FOUR TO TEN YEARS
		299.137-014	SALES SUPERVISOR, MALT LIQUORS	4 3 4	SIX TO 12 MONTHS
08.0702	INDUSTRIAL SALES	299.137-014	SALES SUPERVISOR, MALT LIQUORS	4 3 4	SIX TO 12 MONTHS
08.0703	INTERNATIONAL MARKETING	185.157-018	WHOLESALE 2	5 4 5	TWO TO FOUR YEARS
08.0707	WHOLESALE	185.157-018	WHOLESALE 2	5 4 5	TWO TO FOUR YEARS
		185.167-018	MANAGER, DISTRIBUTION WAREHOUSE	5 3 4	ONE TO TWO YEARS
		185.167-030	MANAGER, MEAT SALES AND STORAGE	4 3 3	ONE TO TWO YEARS
		185.167-050	MANAGER, TEXTILE CONVERSION	4 4 4	ONE TO TWO YEARS
		185.167-054	MANAGER, TOBACCO WAREHOUSE	4 3 3	FOUR TO TEN YEARS
		185.167-070	WHOLESALE 1	5 5 4	FOUR TO TEN YEARS
08.0708	MARKETING, GENERAL	*185.157-018	WHOLESALE 2	5 4 5	TWO TO FOUR YEARS

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OCCUPATION: 4020 SUPERVISORS; SALES OCCUPATIONS, COMMODITIES EXCEPT (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING TIME
		*185.167-010	COMMISSARY MANAGER	4	4	3	ONE TO TWO YEARS
		*185.167-018	MANAGER, DISTRIBUTION WAREHOUSE	5	3	4	ONE TO TWO YEARS
		*185.167-030	MANAGER, MEAT SALES AND STORAGE	4	3	3	ONE TO TWO YEARS
		*185.167-050	MANAGER, TEXTILE CONVERSION	4	4	4	ONE TO TWO YEARS
		*185.167-054	MANAGER, TOBACCO WAREHOUSE	4	3	3	FOUR TO TEN YEARS
		*185.167-070	WHOLESALE 1	5	5	4	FOUR TO TEN YEARS
08.1106	WAREHOUSE SERVICES MARKETING	185.167-018	MANAGER, DISTRIBUTION WAREHOUSE	5	3	4	ONE TO TWO YEARS
		185.167-054	MANAGER, TOBACCO WAREHOUSE	4	3	3	FOUR TO TEN YEARS

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OCCUPATION: 4030

SUPERVISORS: SALES OCCUPATIONS, RETAIL

These people plan, organize, and control the operations of a retail business or department. They estimate consumer demands and decide the types and amounts of goods or services to be sold. They determine prices, credit, policies, and operating procedures. They plan budgets, and authorize payments. They hire and train staff, assign duties, set salaries, and promote and fire workers. They enforce safety, health, and security rules. They count and deposit money received, order goods, take inventories, and keep accounts and other records. They also handle customer complaints and may perform some or all of the duties of their workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	299.137-022	SUPERVISOR, ICE STORAGE, SALE, AND	4 3 3	ONE TO TWO YEARS
06.0704	RESTAURANT MANAGEMENT	185.167-022	MANAGER, FOOD CONCESSION	3 3 3	ONE TO TWO YEARS
06.1401	MARKETING MANAGEMENT	185.167-014	MANAGER, AUTOMOBILE SERVICE STATION	4 4 4	TWO TO FOUR YEARS
		185.167-022	MANAGER, FOOD CONCESSION	3 3 3	ONE TO TWO YEARS
		185.167-038	MANAGER, PARTS	4 3 3	TWO TO FOUR YEARS
		185.167-046	MANAGER, RETAIL STORE	4 4 3	TWO TO FOUR YEARS
		299.137-010	MANAGER, DEPARTMENT	4 3 4	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	230.137-010	SUPERVISOR, ADVERTISING-MATERIAL DI	4 2 4	ONE TO TWO YEARS
08.0602	CONVENIENCE STORE MARKETING	185.167-046	MANAGER, RETAIL STORE	4 4 3	TWO TO FOUR YEARS
08.0603	SPECIALTY FOODS MARKETING	185.167-046	MANAGER, RETAIL STORE	4 4 3	TWO TO FOUR YEARS
08.0604	SUPERMARKET MARKETING	185.167-046	MANAGER, RETAIL STORE	4 4 3	TWO TO FOUR YEARS
08.0705	RETAILING	185.167-038	MANAGER, PARTS	4 3 3	TWO TO FOUR YEARS
		185.167-046	MANAGER, RETAIL STORE	4 4 3	TWO TO FOUR YEARS
		185.167-066	VENDING-STAND SUPERVISOR	5 4 4	TWO TO FOUR YEARS
		291.157-010	SUBSCRIPTION CREW LEADER	3 2 3	SIX TO 12 MONTHS
		299.137-010	MANAGER, DEPARTMENT	4 3 4	ONE TO TWO YEARS
08.0706	SALES	185.167-066	VENDING-STAND SUPERVISOR	5 4 4	TWO TO FOUR YEARS
		291.157-010	SUBSCRIPTION CREW LEADER	3 2 3	SIX TO 12 MONTHS
		299.137-026	SUPERVISOR, MARINA SALES AND SERVIC	4 3 4	SIX TO 12 MONTHS
08.0707	WHOLESALE	185.167-038	MANAGER, PARTS	4 3 3	TWO TO FOUR YEARS
08.0708	MARKETING, GENERAL	*185.167-014	MANAGER, AUTOMOBILE SERVICE STATION	4 4 4	TWO TO FOUR YEARS
		*185.167-022	MANAGER, FOOD CONCESSION	3 3 3	ONE TO TWO YEARS
		*185.167-038	MANAGER, PARTS	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 4030 SUPERVISORS; SALES OCCUPATIONS, RETAIL (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
		*185.167-046	MANAGER, RETAIL STORE	4	4	3 TWO TO FOUR YEARS
		*185.167-066	VENDING-STAND SUPERVISOR	5	4	4 TWO TO FOUR YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	299.137-026	SUPERVISOR, MARINA SALES AND SERVIC	4	3	4 SIX TO 12 MONTHS
08.0904	RECREATIONAL PRODUCTS MARKETING	185.167-046	MANAGER, RETAIL STORE	4	4	3 TWO TO FOUR YEARS
		299.137-026	SUPERVISOR, MARINA SALES AND SERVIC	4	3	4 SIX TO 12 MONTHS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	185.167-022	MANAGER, FOOD CONCESSION	3	3	3 ONE TO TWO YEARS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	185.167-038	MANAGER, PARTS	4	3	3 TWO TO FOUR YEARS
08.1206	SERVICE STATION RETAILING	185.167-014	MANAGER, AUTOMOBILE SERVICE STATION	4	4	4 TWO TO FOUR YEARS
09.0201	ADVERTISING	230.137-010	SUPERVISOR, ADVERTISING-MATERIAL DI	4	2	4 ONE TO TWO YEARS

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OCCUPATION: 4100

INSURANCE, SECURITIES, REAL ESTATE & BUSINESS SERVICE SALES OCCUPATIONS

These workers sell insurance, stocks and bonds, real estate, and business services to individuals and/or businesses. They may act as agents, settling claims, buying stocks and bonds, or arranging the sale of property. They may advise clients on the amount of insurance they need or inform them of favorable investment opportunities. They may provide businesses with maintenance or security services or sell advertising time or space.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CGDE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4120

INSURANCE, REAL ESTATE, AND SECURITIES SALES OCCUPATIONS

These workers sell insurance, stocks and bonds, or real estate. They may advise clients on the type and amount of insurance they need and help them settle claims. Others inform clients of stock market conditions and buy and sell security interests for them. Some show properties which they sell or manage. They arrange financing and insure that all legal matters are in order when selling property. These workers may provide financial counseling or other services.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 4122

INSURANCE SALES OCCUPATIONS

People in these jobs sell life, fire, accident, and other types of insurance. They sell policies that protect individuals and businesses against losses or damages. They may help plan financial protection for families. They may advise clients on ways to protect their cars, homes, businesses, or other property. Some help clients get settlements for insurance claims. These workers spend much of their time discussing insurance needs with clients. They prepare reports, keep records, and plan insurance programs for clients.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
06.0801	INSURANCE AND RISK MANAGEMENT	*250.257-010	SALES AGENT, INSURANCE	4 3 4	ONE TO TWO YEARS
08.0706	SALES	239.267-010	PLACER	4 3 4	SIX TO 12 MONTHS
		250.257-010	SALES AGENT, INSURANCE	4 3 4	ONE TO TWO YEARS
08.1001	INSURANCE MARKETING	239.267-010	PLACER	4 3 4	SIX TO 12 MONTHS
		250.257-010	SALES AGENT, INSURANCE	4 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4123

REAL ESTATE SALES OCCUPATIONS

REAL ESTATE AGENTS and BROKERS assist clients in the buying or selling of a home or property. BROKERS not only sell real estate, but also rent and manage properties, make appraisals, and develop new building projects. They often arrange for loans and title searches for buyers and set up meetings between buyers and sellers. REAL ESTATE AGENTS are independent sales workers who work for a broker. They help buyers find homes or property and provide many of the services offered by the brokerage firm.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	191.267-010	APPRAISER, REAL ESTATE	5 4 4	TWO TO FOUR YEARS
06.1701	REAL ESTATE	250.157-010	SUPERINTENDENT, SALES	5 4 5	TWO TO FOUR YEARS
		250.357-010	BUILDING CONSULTANT	4 3 4	SIX TO 12 MONTHS
		250.357-014	LEASING AGENT, RESIDENCE	4 2 4	SIX TO 12 MONTHS
		250.357-018	SALES AGENT, REAL ESTATE	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	250.157-010	SUPERINTENDENT, SALES	5 4 5	TWO TO FOUR YEARS
		250.357-010	BUILDING CONSULTANT	4 3 4	SIX TO 12 MONTHS
		250.357-014	LEASING AGENT, RESIDENCE	4 2 4	SIX TO 12 MONTHS
		250.357-018	SALES AGENT, REAL ESTATE	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4124

SECURITIES AND FINANCIAL SERVICE SALES OCCUPATIONS

These workers buy and sell securities (stocks and bonds) for customers. They give clients advice and information on the stock market and on businesses in which they might want to invest. Some provide loans, tax counseling, and accounting or auditing services to clients. Some sell travelers' checks, credit reports, or other services to businesses or banks. Some encourage people to open accounts with financial firms. Many of these workers attend sales and trade meetings and meet with community groups to find new clients and to stay informed of economic trends.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.0301	BANKING AND FINANCE	*162.157-014	BROKER'S FLOOR REPRESENTATIVE	5 5 5	FOUR TO TEN YEARS
		*162.157-042	SECURITIES TRADER 1	5 5 4	TWO TO FOUR YEARS
		*251.157-010	SALES AGENT, SECURITIES	5 4 5	TWO TO FOUR YEARS
		*251.257-018	SALES REPRESENTATIVE, TRAVELERS' CH	5 3 4	TWO TO FOUR YEARS
06.1001	INVESTMENTS AND SECURITIES	*162.157-014	BROKER'S FLOOR REPRESENTATIVE	5 5 5	FOUR TO TEN YEARS
		*251.157-010	SALES AGENT, SECURITIES	5 4 5	TWO TO FOUR YEARS
		*251.257-010	SALES AGENT, FINANCIAL SERVICES	5 4 5	ONE TO TWO YEARS
08.0401	FINANCIAL SERVICES MARKETING	162.157-014	BROKER'S FLOOR REPRESENTATIVE	5 5 5	FOUR TO TEN YEARS
		162.157-042	SECURITIES TRADER 1	5 5 4	TWO TO FOUR YEARS
		251.157-010	SALES AGENT, SECURITIES	5 4 5	TWO TO FOUR YEARS
		251.257-010	SALES AGENT, FINANCIAL SERVICES	5 4 5	ONE TO TWO YEARS
		251.257-018	SALES REPRESENTATIVE, TRAVELERS' CH	5 3 4	TWO TO FOUR YEARS
		251.357-014	SALES AGENT, FINANCIAL-REPORT SERVI	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	251.157-010	SALES AGENT, SECURITIES	5 4 5	TWO TO FOUR YEARS
		251.257-010	SALES AGENT, FINANCIAL SERVICES	5 4 5	ONE TO TWO YEARS
		251.257-018	SALES REPRESENTATIVE, TRAVELERS' CH	5 3 4	TWO TO FOUR YEARS
		251.357-014	SALES AGENT, FINANCIAL-REPORT SERVI	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4150

BUSINESS SERVICE SALES OCCUPATIONS

These workers sell services to businesses. These may include building maintenance, credit reporting, pest control, security, or telephone answering services. They may also sell advertising, including art work, TV and radio time, billboard space, or classified ads. They contact businesses by telephone or in person to tell of available services. They handle scheduling, billing, customer complaints, and advise customers on how service can meet their needs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME

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OCCUPATION: 4152

BUSINESS SERVICE SALES OCCUPATIONS (EXCEPT ADVERTISING)

These people sell services such as buildings maintenance, pest control, travel aid, credit reporting, security, printings, and telephone answering. They sell services for a company by phoning or calling on people to inform them of services available. They may find new customers by studying directories or company records. They take orders for services, compute the cost, and schedule the services to be delivered. They also advise customers on ways to solve problems, handle customer complaints, and write reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R	M	L	TRAINING TIME
CODE	TITLE	CODE	TITLE					
01.0503	AGRICULTURAL SUPPLIES MARKETING	251.357-018	SALES AGENT, PEST CONTROL SERVICE	4	3	4		ONE TO TWO YEARS
		251.357-026	SALES REPRESENTATIVE, HERBICIDE SER	4	3	4		SIX TO 12 MONTHS
		259.357-038	TOBACCO-WAREHOUSE AGENT	3	2	3		30 TO 90 DAYS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	251.357-026	SALES REPRESENTATIVE, HERBICIDE SER	4	3	4		SIX TO 12 MONTHS
06.0701	HOTEL/MOTEL MANAGEMENT	259.157-014	SALES REPRESENTATIVE, HOTEL SERVICE	4	3	4		ONE TO TWO YEARS
06.1101	LABOR/INDUSTRIAL RELATIONS	*251.257-014	SALES AGENT, PSYCHOLOGICAL TESTS AN	5	4	5		TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	236.252-010	REPRESENTATIVE, PERSONAL SERVICE	5	3	5		ONE TO TWO YEARS
		251.157-014	SALES REPRESENTATIVE, DATA-PROCESSI	5	5	5		TWO TO FOUR YEARS
		251.257-014	SALES AGENT, PSYCHOLOGICAL TESTS AN	5	4	5		TWO TO FOUR YEARS
		251.357-010	SALES AGENT, BUSINESS SERVICES	4	3	4		SIX TO 12 MONTHS
		251.357-018	SALES AGENT, PEST CONTROL SERVICE	4	3	4		ONE TO TWO YEARS
		251.357-026	SALES REPRESENTATIVE, HERBICIDE SER	4	3	4		SIX TO 12 MONTHS
		252.257-010	TRAFFIC AGENT	5	3	4		TWO TO FOUR YEARS
		252.357-010	CRATING-AND-MOVING ESTIMATOR	4	3	4		SIX TO 12 MONTHS
		253.157-010	COMMUNICATIONS CONSULTANT	5	3	4		ONE TO TWO YEARS
		253.257-010	SALES REPRESENTATIVE, TELEPHONE SER	5	3	4		ONE TO TWO YEARS
		253.357-010	SALES REPRESENTATIVE, PUBLIC UTILIT	4	3	4		ONE TO TWO YEARS
		254.357-018	SALES REPRESENTATIVE, PRINTING	4	3	4		SIX TO 12 MONTHS
		259.157-014	SALES REPRESENTATIVE, HOTEL SERVICE	4	3	4		ONE TO TWO YEARS
		259.257-018	SERVICE REPRESENTATIVE, ELEVATORS,	5	4	4		SIX TO 12 MONTHS
		259.357-030	SALES REPRESENTATIVE, WEATHER-FOREC	4	3	4		THREE TO SIX MONTHS
		259.357-038	TOBACCO-WAREHOUSE AGENT	3	2	3		30 TO 90 DAYS
08.0401	FINANCIAL SERVICES MARKETING	251.357-010	SALES AGENT, BUSINESS SERVICES	4	3	4		SIX TO 12 MONTHS
08.0702	INDUSTRIAL SALES	250.357-022	SALES REPRESENTATIVE	3	3	3		SIX TO 12 MONTHS
		251.357-010	SALES AGENT, BUSINESS SERVICES	4	3	4		SIX TO 12 MONTHS
08.0706	SALES	236.252-010	REPRESENTATIVE, PERSONAL SERVICE	5	3	5		ONE TO TWO YEARS
		250.357-022	SALES REPRESENTATIVE	3	3	3		SIX TO 12 MONTHS

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OCCUPATION: 4152 BUSINESS SERVICE, EXCEPT ADVERTISING, SALES OCCUPAT (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		251.257-014	SALES AGENT, PSYCHOLOGICAL TESTS AN	5	4	5	TWO TO FOUR YEARS
		251.357-010	SALES AGENT, BUSINESS SERVICES	4	3	4	SIX TO 12 MONTHS
		251.357-018	SALES AGENT, PEST CONTROL SERVICE	4	3	4	ONE TO TWO YEARS
		251.357-026	SALES REPRESENTATIVE, HERBICIDE SER	4	3	4	SIX TO 12 MONTHS
		252.257-010	TRAFFIC AGENT	5	3	4	TWO TO FOUR YEARS
		252.357-010	CRATING-AND-MOVING ESTIMATOR	4	3	4	SIX TO 12 MONTHS
		253.157-010	COMMUNICATIONS CONSULTANT	5	3	4	ONE TO TWO YEARS
		253.257-010	SALES REPRESENTATIVE, TELEPHONE SER	5	3	4	ONE TO TWO YEARS
		253.357-010	SALES REPRESENTATIVE, PUBLIC UTILIT	4	3	4	ONE TO TWO YEARS
		254.357-018	SALES REPRESENTATIVE, PRINTING	4	3	4	SIX TO 12 MONTHS
		259.157-014	SALES REPRESENTATIVE, HOTEL SERVICE	4	3	4	ONE TO TWO YEARS
		259.257-018	SERVICE REPRESENTATIVE, ELEVATORS,	5	4	4	SIX TO 12 MONTHS
		259.357-030	SALES REPRESENTATIVE, WEATHER-FORC	4	3	4	THREE TO SIX MONTHS
		259.357-038	TOBACCO-WAREHOUSE AGENT	3	2	3	30 TO 90 DAYS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	259.157-014	SALES REPRESENTATIVE, HOTEL SERVICE	4	3	4	ONE TO TWO YEARS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	251.357-010	SALES AGENT, BUSINESS SERVICES	4	3	4	SIX TO 12 MONTHS
09.0301	COMMUNICATIONS RESEARCH	*253.157-010	COMMUNICATIONS CONSULTANT	5	3	4	ONE TO TWO YEARS
09.0801	TELECOMMUNICATIONS	*253.157-010	COMMUNICATIONS CONSULTANT	5	3	4	ONE TO TWO YEARS

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OCCUPATION: 4153

ADVERTISING AND RELATED SALES OCCUPATIONS

People in these jobs call on businesses to sell advertising materials and services. For example, some sell art work for use in composing ads. Some sell advertising time on radio and TV programs. Some sell classified ad space in newspapers or magazines. Some arrange leases for outdoor advertising. Some promote the display of a company's products in local stores. These workers figure the costs of providing products and services, advise clients on advertising matters and draw up sales or service contracts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
08.0202 DISPLAY	269.357-018 SALES-PROMOTION REPRESENTATIVE	4 2 3	30 TO 90 DAYS
08.0203 MARKETING OF BUSINESS OR PERSONAL SERVICE	254.251-010 SALES REPRESENTATIVE, GRAPHIC ART	5 3 4	TWO TO FOUR YEARS
	254.257-010 SALES REPRESENTATIVE, SIGNS AND DIS	4 3 4	ONE TO TWO YEARS
	254.357-010 LEASING AGENT, OUTDOOR ADVERTISING	3 2 3	THREE TO SIX MONTHS
	254.357-014 SALES REPRESENTATIVE, ADVERTISING	4 3 4	ONE TO TWO YEARS
	254.357-022 SALES REPRESENTATIVE, SIGNS	4 3 4	ONE TO TWO YEARS
08.0702 INDUSTRIAL SALES	259.357-018 SALES REPRESENTATIVE, RADIO AND TEL	4 3 4	ONE TO TWO YEARS
	269.357-018 SALES-PROMOTION REPRESENTATIVE	4 2 3	30 TO 90 DAYS
08.0706 SALES	269.357-018 SALES-PROMOTION REPRESENTATIVE	4 2 3	30 TO 90 DAYS
	254.251-010 SALES REPRESENTATIVE, GRAPHIC ART	5 3 4	TWO TO FOUR YEARS
	254.257-010 SALES REPRESENTATIVE, SIGNS AND DIS	4 3 4	ONE TO TWO YEARS
	254.357-010 LEASING AGENT, OUTDOOR ADVERTISING	3 2 3	THREE TO SIX MONTHS
	254.357-014 SALES REPRESENTATIVE, ADVERTISING	4 3 4	ONE TO TWO YEARS
	254.357-022 SALES REPRESENTATIVE, SIGNS	4 3 4	ONE TO TWO YEARS
09.0201 ADVERTISING	259.357-018 SALES REPRESENTATIVE, RADIO AND TEL	4 3 4	ONE TO TWO YEARS
	269.357-018 SALES-PROMOTION REPRESENTATIVE	4 2 3	30 TO 90 DAYS
	254.251-010 SALES REPRESENTATIVE, GRAPHIC ART	5 3 4	TWO TO FOUR YEARS
	254.257-010 SALES REPRESENTATIVE, SIGNS AND DIS	4 3 4	ONE TO TWO YEARS
	254.357-010 LEASING AGENT, OUTDOOR ADVERTISING	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 4200

SALES OCCUPATIONS, COMMODITIES EXCEPT RETAIL

These workers sell products and services to businesses and industries. They may travel throughout an assigned territory as representatives of manufacturers or distributors. They show how their products will meet the client's retailing or production needs, providing samples and catalogs. They advise customers on purchases, quote prices, fill out contracts, and arrange credit terms and delivery. Some work in showrooms or take phone orders.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 4210

SALES ENGINEERS

These workers are engineers who specialize in the sale of technical products and services. They may sell either mechanical, electrical, electronic, chemical, or related products. They call on engineers, architects, or other professionals to explain and describe products and services. They review blueprints, plans, and other customer documents and estimate the costs of providing products or services. They advise clients on the use, operation, and upkeep of equipment. They also draw up sales contracts and may provide technical training to clients.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	002.151-010	SALES ENGINEER, AERONAUTICAL PRODUC	5 5 5	FOUR TO TEN YEARS
		003.151-010	SALES-ENGINEER, ELECTRICAL PRODUCTS	5 5 5	FOUR TO TEN YEARS
		003.151-014	SALES-ENGINEER, ELECTRONICS PRODUCT	5 5 5	FOUR TO TEN YEARS
		006.151-010	SALES ENGINEER, CERAMIC PRODUCTS	5 5 5	FOUR TO TEN YEARS
		008.151-010	CHEMICAL-EQUIPMENT SALES ENGINEER	5 5 5	FOUR TO TEN YEARS
		010.151-010	SALES ENGINEER, MINING-AND-OIL-WELL	5 5 5	FOUR TO TEN YEARS
		015.151-010	SALES ENGINEER, NUCLEAR EQUIPMENT	5 5 5	FOUR TO TEN YEARS
01.0503	AGRICULTURAL SUPPLIES MARKETING	013.151-010	SALES ENGINEER, AGRICULTURAL EQUIPM	5 5 5	FOUR TO TEN YEARS
06.2101	COMPUTER INSTALLATION MANAGEMENT	*003.151-014	SALES-ENGINEER, ELECTRONICS PRODUCT	5 5 5	FOUR TO TEN YEARS
08.0702	INDUSTRIAL SALES	007.151-010	SALES ENGINEER, MECHANICAL EQUIPMEN	5 5 5	FOUR TO TEN YEARS
		013.151-010	SALES ENGINEER, AGRICULTURAL EQUIPM	5 5 5	FOUR TO TEN YEARS
		014.151-010	SALES ENGINEER, MARINE EQUIPMENT	5 5 5	FOUR TO TEN YEARS

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OCCUPATION: 4230

TECHNICAL SALES WORKERS AND SERVICE ADVISORS

These workers sell products that require a technical knowledge of the product and its use. They may sell farm equipment, industrial machinery, or chemicals and drugs, for example. They must be able to understand client needs and show how their product will meet those needs. They may travel throughout an assigned territory, showing samples and catalogs, filling out contracts for orders, and arranging credit terms and delivery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 4232

TECHNICAL SALES WORKERS, AIRCRAFT

People in these jobs sell aircraft, aircraft equipment, and parts to private customers and to business and industrial firms. Some travel to call on customers in an assigned area. Others talk with customers on a sales floor or by phone. They help customers choose aircraft equipment. They quote prices and credit terms, and prepare sales contracts for orders obtained. They also keep business and expense records. Some may take customers on flights to point out safety and other features of aircraft.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0702	INDUSTRIAL SALES	273.253-010	SALES REPRESENTATIVE, AIRCRAFT	5 3 4	ONE TO TWO YEARS
		273.357-010	SALES REPRESENTATIVE, AIRCRAFT EQUI	4 3 4	ONE TO TWO YEARS
08.0706	SALES	273.253-010	SALES REPRESENTATIVE, AIRCRAFT	5 3 4	ONE TO TWO YEARS
		273.357-010	SALES REPRESENTATIVE, AIRCRAFT EQUI	4 3 4	ONE TO TWO YEARS
08.1205	RECREATIONAL VEHICLES AND ACCESSORIES MA	273.253-010	SALES REPRESENTATIVE, AIRCRAFT	5 3 4	ONE TO TWO YEARS
		273.357-010	SALES REPRESENTATIVE, AIRCRAFT EQUI	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4233

TECHNICAL SALES WORKERS, AGRICULTURAL EQUIPMENT AND SUPPLIES

These workers sell farm equipment, and supplies such as tractors, combines, milking machines, tools, and fertilizer. They also advise farmers on crop raising, animal care, disease prevention, and similar problems. They call on farmers and store owners to show them samples and catalogs, explain new products, and take orders. They quote prices and credit terms and fill out sales contracts. They may install and service equipment, show customers how to use equipment and give advice on the proper use and care for materials and equipment. They prepare sales reports and keep daily expense records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	272.357-014	SALES REPRESENTATIVE, FARM AND GARD	4	3 4	SIX TO 12 MONTHS
		272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
		299.251-010	SALES-SERVICE REPRESENTATIVE, MILKI	4	3 4	ONE TO TWO YEARS
01.0304	CROP PRODUCTION	272.357-010	SALES REPRESENTATIVE, ANIMAL-FEED P	4	3 4	ONE TO TWO YEARS
01.0503	AGRICULTURAL SUPPLIES MARKETING	272.357-010	SALES REPRESENTATIVE, ANIMAL-FEED P	4	3 4	ONE TO TWO YEARS
		272.357-014	SALES REPRESENTATIVE, FARM AND GARD	4	3 4	SIX TO 12 MONTHS
		272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
		274.357-030	SALES REPRESENTATIVE, DAIRY SUPPLIE	4	3 4	ONE TO TWO YEARS
		299.251-010	SALES-SERVICE REPRESENTATIVE, MILKI	4	3 4	ONE TO TWO YEARS
02.0204	ANIMAL NUTRITION	272.357-010	SALES REPRESENTATIVE, ANIMAL-FEED P	4	3 4	ONE TO TWO YEARS
		272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
02.0209	POULTRY	272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
08.0502	FARM AND GARDEN SUPPLIES MARKETING	272.357-010	SALES REPRESENTATIVE, ANIMAL-FEED P	4	3 4	ONE TO TWO YEARS
		272.357-014	SALES REPRESENTATIVE, FARM AND GARD	4	3 4	SIX TO 12 MONTHS
		272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
		274.357-030	SALES REPRESENTATIVE, DAIRY SUPPLIE	4	3 4	ONE TO TWO YEARS
08.0702	INDUSTRIAL SALES	272.357-010	SALES REPRESENTATIVE, ANIMAL-FEED P	4	3 4	ONE TO TWO YEARS
		272.357-014	SALES REPRESENTATIVE, FARM AND GARD	4	3 4	SIX TO 12 MONTHS
		272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
		274.357-030	SALES REPRESENTATIVE, DAIRY SUPPLIE	4	3 4	ONE TO TWO YEARS
08.0706	SALES	272.357-010	SALES REPRESENTATIVE, ANIMAL-FEED P	4	3 4	ONE TO TWO YEARS
		272.357-014	SALES REPRESENTATIVE, FARM AND GARD	4	3 4	SIX TO 12 MONTHS
		272.357-018	SALES REPRESENTATIVE, POULTRY EQUIP	4	3 4	ONE TO TWO YEARS
		274.357-030	SALES REPRESENTATIVE, DAIRY SUPPLIE	4	3 4	ONE TO TWO YEARS
		299.251-010	SALES-SERVICE REPRESENTATIVE, MILKI	4	3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4234

TECHNICAL SALES WORKERS, ELECTRONIC EQUIPMENT

These workers sell electronic equipment. Some call on businesses to sell products such as communications, navigation, and production control devices. Others sell stereos, radios, and similar products to customers in a store or show room. They show products, give technical information, quote prices and credit terms, and prepare sales slips or contracts. They also may take payments, arrange for deliveries, write sales reports, and keep expense records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0702	INDUSTRIAL SALES	271.257-010	SALES REPRESENTATIVE, COMMUNICATION	4 4 4	ONE TO TWO YEARS
		271.352-014	SALES REPRESENTATIVE, ULTRASONIC EQ	4 3 4	SIX TO 12 MONTHS
08.0705	RETAILING	270.357-038	SALESPERSON, STEREO EQUIPMENT	4 3 4	THREE TO SIX MONTHS
08.0706	SALES	270.357-038	SALESPERSON, STEREO EQUIPMENT	4 3 4	THREE TO SIX MONTHS
		271.257-010	SALES REPRESENTATIVE, COMMUNICATION	4 4 4	ONE TO TWO YEARS
		271.352-014	SALES REPRESENTATIVE, ULTRASONIC EQ	4 3 4	SIX TO 12 MONTHS
08.0808	SPECIALTY HOME FURNISHINGS MARKETING	270.357-038	SALESPERSON, STEREO EQUIPMENT	4 3 4	THREE TO SIX MONTHS

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OCCUPATION: 4235

TECHNICAL SALES WORKERS: INDUSTRIAL MACHINERY, EQUIPMENT AND SUPPLIES

These workers sell industrial machinery, equipment, and supplies to industrial and commercial firms. Their jobs require technical knowledge of the products and services sold. They travel throughout an assigned territory, sell products and services, advise customers in the selection, installation, and maintenance of products. They quote prices and credit terms and fill out sales contracts. They may read blueprints and other documents to get information needed to prepare bids for contract work. They also prepare sales reports and keep daily expense records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
08.0702	INDUSTRIAL SALES	271.352-010	SALES REPRESENTATIVE, RADIOGRAPHIC-	4	3	4	ONE TO TWO YEARS
		273.357-026	SALES REPRESENTATIVE, RAILROAD EQUI	4	3	4	ONE TO TWO YEARS
		274.257-010	SALES REPRESENTATIVE, FOUNDRY AND M	5	4	4	TWO TO FOUR YEARS
		274.357-010	SALES REPRESENTATIVE, ABRASIVES	4	3	4	ONE TO TWO YEARS
		274.357-018	SALES REPRESENTATIVE, BUILDING EQUI	4	3	4	ONE TO TWO YEARS
		274.357-022	SALES REPRESENTATIVE, CONSTRUCTION	4	3	4	ONE TO TWO YEARS
		274.357-038	SALES REPRESENTATIVE, INDUSTRIAL MA	4	3	4	SIX TO 12 MONTHS
		274.357-046	SALES REPRESENTATIVE, LUBRICATING E	4	3	4	SIX TO 12 MONTHS
		274.357-050	SALES REPRESENTATIVE, MATERIAL-HAND	4	3	4	SIX TO 12 MONTHS
		274.357-058	SALES REPRESENTATIVE, OILFIELD SUPP	4	3	4	ONE TO TWO YEARS
		274.357-070	SALES REPRESENTATIVE, TEXTILE MACHI	4	3	4	ONE TO TWO YEARS
		274.357-074	SALES REPRESENTATIVE, WELDING EQUIP	4	3	4	ONE TO TWO YEARS
		274.357-078	SALES REPRESENTATIVE, WIRE ROPE	4	3	4	ONE TO TWO YEARS
08.0706	SALES	271.352-010	SALES REPRESENTATIVE, RADIOGRAPHIC-	4	3	4	ONE TO TWO YEARS
		273.357-026	SALES REPRESENTATIVE, RAILROAD EQUI	4	3	4	ONE TO TWO YEARS
		274.257-010	SALES REPRESENTATIVE, FOUNDRY AND M	5	4	4	TWO TO FOUR YEARS
		274.357-010	SALES REPRESENTATIVE, ABRASIVES	4	3	4	ONE TO TWO YEARS
		274.357-018	SALES REPRESENTATIVE, BUILDING EQUI	4	3	4	ONE TO TWO YEARS
		274.357-022	SALES REPRESENTATIVE, CONSTRUCTION	4	3	4	ONE TO TWO YEARS
		274.357-038	SALES REPRESENTATIVE, INDUSTRIAL MA	4	3	4	SIX TO 12 MONTHS
		274.357-046	SALES REPRESENTATIVE, LUBRICATING E	4	3	4	SIX TO 12 MONTHS
		274.357-050	SALES REPRESENTATIVE, MATERIAL-HAND	4	3	4	SIX TO 12 MONTHS
		274.357-058	SALES REPRESENTATIVE, OILFIELD SUPP	4	3	4	ONE TO TWO YEARS
		274.357-070	SALES REPRESENTATIVE, TEXTILE MACHI	4	3	4	ONE TO TWO YEARS
		274.357-074	SALES REPRESENTATIVE, WELDING EQUIP	4	3	4	ONE TO TWO YEARS
		274.357-078	SALES REPRESENTATIVE, WIRE ROPE	4	3	4	ONE TO TWO YEARS
08.0803	BUILDING MATERIALS MARKETING	274.357-018	SALES REPRESENTATIVE, BUILDING EQUI	4	3	4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4236

TECHNICAL SALES WORKERS: MEDICAL AND DENTAL EQUIPMENT AND SUPPLIES

These workers sell medical equipment and supplies to doctors, dentists, veterinarians, and representatives of hospitals and other medical centers. They travel an assigned area to call on customers and advise them of new medical products. They describe or show products to customers and write orders for products requested. They also advise customers on equipment purchases and discuss the dosage, use, and effects of new drugs and medicines. They keep expense and sales records and write sales reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0702	INDUSTRIAL SALES	262.157-010	PHARMACEUTICAL DETAILER	5 3 5	TWO TO FOUR YEARS
		276.257-010	SALES REPRESENTATIVE, DENTAL AND ME	4 3 4	ONE TO TWO YEARS
		276.357-018	SALES REPRESENTATIVE, VETERINARIAN	4 3 4	ONE TO TWO YEARS
08.0705	RETAILING	276.257-022	SALESPERSON, SURGICAL APPLIANCES	5 3 4	ONE TO TWO YEARS
08.0706	SALES	262.157-010	PHARMACEUTICAL DETAILER	5 3 5	TWO TO FOUR YEARS
		276.257-010	SALES REPRESENTATIVE, DENTAL AND ME	4 3 4	ONE TO TWO YEARS
		276.257-022	SALESPERSON, SURGICAL APPLIANCES	5 3 4	ONE TO TWO YEARS
		276.357-018	SALES REPRESENTATIVE, VETERINARIAN	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4237

TECHNICAL SALES WORKERS: CHEMICALS & CHEMICAL PRODUCTS

People in these jobs sell chemicals and chemical products such as explosives, acids, medicines, drugs, and compounds used in industry and farming. Some sell these products by calling on business or industrial customers in an assigned territory. Others deal directly with customers at a sales office or store. They show customers samples or descriptions of products and take orders for products. They quote prices and credit terms and prepare sales contracts. They also prepare business and expense reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0503	AGRICULTURAL SUPPLIES MARKETING	262.357-010	SALES REPRESENTATIVE, CHEMICALS AND	4 3 4	SIX TO 12 MONTHS
02.0203	ANIMAL HEALTH	262.357-010	SALES REPRESENTATIVE, CHEMICALS AND	4 3 4	SIX TO 12 MONTHS
08.0702	INDUSTRIAL SALES	262.357-010	SALES REPRESENTATIVE, CHEMICALS AND	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	262.357-010	SALES REPRESENTATIVE, CHEMICALS AND	4 3 4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4239

TECHNICAL SALES WORKERS, N.E.C.

These workers specialize in promoting the use of products or services, such as power, heating, and lighting and electroplating services. Their jobs require technical knowledge of the products and services offered. They travel throughout an assigned territory to call on customers. For example, some call on homeowners and businesses to promote the increased or economical use of a public utility. Others call on industrial firms to advise on and promote the use of a particular industrial process or product. These workers give technical advice to customers, quote rates, installation charges, and operating costs, and fill out sales contracts or service orders. They may inspect a customer's equipment or operations and advise on the use of products or services. They also may prepare business reports and keep daily expense records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	252.357-014	SALES REPRESENTATIVE, SHIPPING SERV	3 3 3	SIX TO 12 MONTHS
08.0702	INDUSTRIAL SALES	259.257-014	SALES REPRESENTATIVE, ELECTROPLATIN	5 4 4	TWO TO FOUR YEARS
		274.357-054	SALES REPRESENTATIVE, METALS	4 3 4	ONE TO TWO YEARS
08.0706	SALES	252.357-014	SALES REPRESENTATIVE, SHIPPING SERV	3 3 3	SIX TO 12 MONTHS
		259.257-014	SALES REPRESENTATIVE, ELECTROPLATIN	5 4 4	TWO TO FOUR YEARS
		274.357-054	SALES REPRESENTATIVE, METALS	4 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4240

SALES REPRESENTATIVES

These workers sell goods to business and industrial concerns as sales agents for manufacturers or distributors. They may work in showrooms or travel throughout an assigned territory, meeting customers and explaining products. They may help retailers or industries decide which products best meet their needs. They quote prices, fill out sales contracts, arrange credit terms, and estimate delivery dates. They find new customers, write sales reports, and keep records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 4242

SALES REPRESENTATIVES: COMMERCIAL AND INDUSTRIAL EQUIPMENT AND SUPPLIES

These people specialize in the sale of small machines, tools, precision instruments, parts, furniture, and other equipment and supplies. They sell these products to businesses and industrial plants as sales agents for a manufacturer or distributor. They travel throughout an assigned territory to call on regular and potential customers. They carry sample products and catalogs to show customers. They also describe products to customers and advise them in selecting products which will best serve their needs. They quote prices and credit terms and fill out sales contracts for orders obtained. They also may take orders by phone. They prepare sales reports and keep daily records of their business expenses.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
01.0603	ORNAMENTAL HORTICULTURE	275.357-022	SALES REPRESENTATIVE, CORDAGE	4 3 4	SIX TO 12 MONTHS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	279.357-034	SALES REPRESENTATIVE, WATER-SOFTENI	4 3 4	SIX TO 12 MONTHS
08.0503	FLORISTRY	275.357-054	SALESPERSON, FLORIST SUPPLIES	4 3 4	THREE TO SIX MONTHS
08.0702	INDUSTRIAL SALES	261.357-026	SALES REPRESENTATIVE, SAFETY APPARE	4 3 4	THREE TO SIX MONTHS
		274.157-010	SALES REPRESENTATIVE, ELEVATORS, ES	5 4 4	SIX TO 12 MONTHS
		274.357-026	SALES REPRESENTATIVE, CONTAINERS	4 3 4	SIX TO 12 MONTHS
		274.357-042	SALES REPRESENTATIVE, INDUSTRIAL RU	4 3 4	ONE TO TWO YEARS
		274.357-062	SALES REPRESENTATIVE, PRINTING SUPP	4 3 4	SIX TO 12 MONTHS
		274.357-066	SALES REPRESENTATIVE, TEXTILE DESIG	4 3 4	SIX TO 12 MONTHS
		275.257-010	SALES REPRESENTATIVE, COMPUTERS AND	5 4 4	ONE TO TWO YEARS
		275.357-014	SALES REPRESENTATIVE, CHURCH FURNIT	4 3 4	SIX TO 12 MONTHS
		275.357-018	SALES REPRESENTATIVE, COMMERCIAL EQ	4 3 4	THREE TO SIX MONTHS
		275.357-022	SALES REPRESENTATIVE, CORDAGE	4 3 4	SIX TO 12 MONTHS
		275.357-026	SALES REPRESENTATIVE, HOTEL AND RES	4 3 4	ONE TO TWO YEARS
		275.357-030	SALES REPRESENTATIVE, MORTICIAN SUP	4 3 4	ONE TO TWO YEARS
		275.357-034	SALES REPRESENTATIVE, OFFICE MACHIN	4 3 4	SIX TO 12 MONTHS
		275.357-042	SALES REPRESENTATIVE, SCHOOL EQUIPM	4 3 4	SIX TO 12 MONTHS
275.357-046	SALES REPRESENTATIVE, SHOE LEATHER	4 3 4	SIX TO 12 MONTHS		
276.257-014	SALES REPRESENTATIVE, WEIGHING AND	5 4 5	ONE TO TWO YEARS		
276.357-010	SALES REPRESENTATIVE, ARCHITECTURAL	4 3 4	ONE TO TWO YEARS		
276.357-014	SALES REPRESENTATIVE, PRECISION INS	4 3 4	ONE TO TWO YEARS		
08.0705	RETAILING	271.354-010	SALESPERSON, ELECTRIC MOTORS	4 3 4	ONE TO TWO YEARS
		275.357-054	SALESPERSON, FLORIST SUPPLIES	4 3 4	THREE TO SIX MONTHS
08.0706	SALES	261.357-026	SALES REPRESENTATIVE, SAFETY APPARE	4 3 4	THREE TO SIX MONTHS
		271.354-010	SALESPERSON, ELECTRIC MOTORS	4 3 4	ONE TO TWO YEARS
		274.157-010	SALES REPRESENTATIVE, ELEVATORS, ES	5 4 4	SIX TO 12 MONTHS
		274.357-026	SALES REPRESENTATIVE, CONTAINERS	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4242 SALES REPRESENTATIVES, COMMERCIAL AND INDUSTRIAL EQ (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		274.357-042	SALES REPRESENTATIVE, INDUSTRIAL RU	4	3	4	ONE TO TWO YEARS
		274.357-062	SALES REPRESENTATIVE, PRINTING SUPP	4	3	4	SIX TO 12 MONTHS
		274.357-066	SALES REPRESENTATIVE, TEXTILE DESIG	4	3	4	SIX TO 12 MONTHS
		275.257-010	SALES REPRESENTATIVE, COMPUTERS AND	5	4	4	ONE TO TWO YEARS
		275.357-014	SALES REPRESENTATIVE, CHURCH FURNIT	4	3	4	SIX TO 12 MONTHS
		275.357-018	SALES REPRESENTATIVE, COMMERCIAL EQ	4	3	4	THREE TO SIX MONTHS
		275.357-022	SALES REPRESENTATIVE, CORDAGE	4	3	4	SIX TO 12 MONTHS
		275.357-026	SALES REPRESENTATIVE, HOTEL AND RES	4	3	4	ONE TO TWO YEARS
		275.357-030	SALES REPRESENTATIVE, MORTICIAN SUP	4	3	4	ONE TO TWO YEARS
		275.357-034	SALES REPRESENTATIVE, OFFICE MACHIN	4	3	4	SIX TO 12 MONTHS
		275.357-042	SALES REPRESENTATIVE, SCHOOL EQUIPM	4	3	4	SIX TO 12 MONTHS
		275.357-046	SALES REPRESENTATIVE, SHOE LEATHER	4	3	4	SIX TO 12 MONTHS
		275.357-054	SALESPERSON, FLORIST SUPPLIES	4	3	4	THREE TO SIX MONTHS
		276.257-014	SALES REPRESENTATIVE, WEIGHING AND	5	4	5	ONE TO TWO YEARS
		276.357-010	SALES REPRESENTATIVE, ARCHITECTURAL	4	3	4	ONE TO TWO YEARS
		276.357-014	SALES REPRESENTATIVE, PRECISION INS	4	3	4	ONE TO TWO YEARS
		279.357-034	SALES REPRESENTATIVE, WATER-SOFTENI	4	3	4	SIX TO 12 MONTHS
08.0805	FURNITURE MARKETING	275.357-014	SALES REPRESENTATIVE, CHURCH FURNIT	4	3	4	SIX TO 12 MONTHS
08.0807	OFFICE PRODUCTS AND EQUIPMENT MARKETING	275.257-010	SALES REPRESENTATIVE, COMPUTERS AND	5	4	4	ONE TO TWO YEARS
		275.357-018	SALES REPRESENTATIVE, COMMERCIAL EQ	4	3	4	THREE TO SIX MONTHS
		275.357-034	SALES REPRESENTATIVE, OFFICE MACHIN	4	3	4	SIX TO 12 MONTHS

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OCCUPATION: 4243

SALES REPRESENTATIVES, GARMENTS AND RELATED TEXTILE PRODUCTS

These workers sell garments, textiles, or trimming for apparel to stores and manufacturers. They may suggest items of clothing, fabric, or trim to be sold by stores or used in making garments. Representatives contact customers at their place of business or meet them in showrooms or sales offices. They demonstrate products, quote prices and credit terms, and arrange delivery of items. They prepare business reports and keep expense records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0102	FASHION MERCHANDISING	261.357-010	SALES REPRESENTATIVE, APPAREL TRIMM	4 3 4	SIX TO 12 MONTHS
		261.357-022	SALES REPRESENTATIVE, MEN'S AND BOY	4 3 4	ONE TO TWO YEARS
		261.357-034	SALES REPRESENTATIVE, UNIFORMS	4 3 4	ONE TO TWO YEARS
		261.357-038	SALES REPRESENTATIVE, WOMEN'S AND G	4 3 4	SIX TO 12 MONTHS
08.0702	INDUSTRIAL SALES	261.357-010	SALES REPRESENTATIVE, APPAREL TRIMM	4 3 4	SIX TO 12 MONTHS
		261.357-022	SALES REPRESENTATIVE, MEN'S AND BOY	4 3 4	ONE TO TWO YEARS
		261.357-030	SALES REPRESENTATIVE, TEXTILES	4 3 4	ONE TO TWO YEARS
		261.357-034	SALES REPRESENTATIVE, UNIFORMS	4 3 4	ONE TO TWO YEARS
		261.357-038	SALES REPRESENTATIVE, WOMEN'S AND G	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	261.357-010	SALES REPRESENTATIVE, APPAREL TRIMM	4 3 4	SIX TO 12 MONTHS
		261.357-022	SALES REPRESENTATIVE, MFN'S AND BOY	4 3 4	ONE TO TWO YEARS
		261.357-030	SALES REPRESENTATIVE, TEXTILES	4 3 4	ONE TO TWO YEARS
		261.357-034	SALES REPRESENTATIVE, UNIFORMS	4 3 4	ONE TO TWO YEARS
		261.357-038	SALES REPRESENTATIVE, WOMEN'S AND G	4 3 4	SIX TO 12 MONTHS
08.0707	WHOLESALE	261.357-010	SALES REPRESENTATIVE, APPAREL TRIMM	4 3 4	SIX TO 12 MONTHS
20.0306	FASHION/FABRIC COORDINATION	261.357-010	SALES REPRESENTATIVE, APPAREL TRIMM	4 3 4	SIX TO 12 MONTHS
		261.357-022	SALES REPRESENTATIVE, MEN'S AND BOY	4 3 4	ONE TO TWO YEARS
		261.357-030	SALES REPRESENTATIVE, TEXTILES	4 3 4	ONE TO TWO YEARS
		261.357-034	SALES REPRESENTATIVE, UNIFORMS	4 3 4	ONE TO TWO YEARS
		261.357-038	SALES REPRESENTATIVE, WOMEN'S AND G	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4244

SALES REPRESENTATIVES: MOTOR VEHICLES AND SUPPLIES

These workers sell motor vehicles, parts, and accessories to dealers, garages, and other sales outlets. They also advise dealers on ways to promote sales. They travel throughout an assigned territory to call on accounts and take orders for vehicles and parts. They show samples and catalogs to dealers and point out the features of various products. They quote prices and credit terms, prepare sales contracts. They also prepare sales reports and keep expense accounts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
08.0702	INDUSTRIAL SALES	273.357-022	SALES REPRESENTATIVE, MOTOR VEHICLE	4 3 4 SIX TO 12 MONTHS
08.0706	SALES	273.357-022	SALES REPRESENTATIVE, MOTOR VEHICLE	4 3 4 SIX TO 12 MONTHS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	273.357-022	SALES REPRESENTATIVE, MOTOR VEHICLE	4 3 4 SIX TO 12 MONTHS

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OCCUPATION: 4245

SALES REPRESENTATIVES; PULP, PAPER, AND PAPER PRODUCTS

People in these jobs sell paper and paper products to business and industrial accounts as sales agents for a manufacturer or distributor. The products they sell include newsprint, wrapping paper, stationary, wallpaper, and paperboard containers. They may sell products at a sales office, by phone, or at a customer's place of business. They look for new business by compiling lists of potential customers from newspapers and directories. They show samples or catalogs to customers, point out features of products, quote prices and credit terms. They also prepare sales reports and expense accounts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0702	INDUSTRIAL SALES	275.357-038	SALES REPRESENTATIVE, PRESSURE-SENS	4 3 4	THREE TO SIX MONTHS
		279.357-026	SALES REPRESENTATIVE, PAPER AND PAP	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	275.357-038	SALES REPRESENTATIVE, PRESSURE-SENS	4 3 4	THREE TO SIX MONTHS
		279.357-026	SALES REPRESENTATIVE, PAPER AND PAP	4 3 4	SIX TO 12 MONTHS
08.0807	OFFICE PRODUCTS AND EQUIPMENT MARKETING	275.357-038	SALES REPRESENTATIVE, PRESSURE-SENS	4 3 4	THREE TO SIX MONTHS
		279.357-026	SALES REPRESENTATIVE, PAPER AND PAP	4 3 4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4246

SALES REPRESENTATIVES; FARM PRODUCTS AND LIVESTOCK

These workers sell farm produce, livestock, and other farm products. They call on wholesale, retail, industrial, and other customers to take orders. They show and describe products to buyers, quote prices and credit terms, and arrange for products to be delivered. They may take bids for farm products and then sell the products to the highest bidder. Many work on a commission basis. They must know market conditions and be able to judge the value of farm products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0503	AGRICULTURAL SUPPLIES MARKETING	162.157-026	COMMISSION AGENT, LIVESTOCK	4 3 4	ONE TO TWO YEARS
		260.257-010	SALES REPRESENTATIVE, LIVESTOCK	4 3 4	SIX TO 12 MONTHS
		260.357-010	COMMISSION AGENT, AGRICULTURAL PROD	4 3 4	ONE TO TWO YEARS
02.0208	LIVESTOCK	162.157-026	COMMISSION AGENT, LIVESTOCK	4 3 4	ONE TO TWO YEARS
		260.257-010	SALES REPRESENTATIVE, LIVESTOCK	4 3 4	SIX TO 12 MONTHS
08.0605	WHOLESALE FOOD MARKETING	162.157-026	COMMISSION AGENT, LIVESTOCK	4 3 4	ONE TO TWO YEARS
		260.257-010	SALES REPRESENTATIVE, LIVESTOCK	4 3 4	SIX TO 12 MONTHS
		260.357-010	COMMISSION AGENT, AGRICULTURAL PROD	4 3 4	ONE TO TWO YEARS
08.0706	SALES	162.157-026	COMMISSION AGENT, LIVESTOCK	4 3 4	ONE TO TWO YEARS
		260.257-010	SALES REPRESENTATIVE, LIVESTOCK	4 3 4	SIX TO 12 MONTHS
		260.357-010	COMMISSION AGENT, AGRICULTURAL PROD	4 3 4	ONE TO TWO YEARS
08.0707	WHOLESALE	162.157-026	COMMISSION AGENT, LIVESTOCK	4 3 4	ONE TO TWO YEARS
		260.357-010	COMMISSION AGENT, AGRICULTURAL PROD	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4249

SALES REPRESENTATIVES, N.E.C.

These people sell one or more lines of goods to business and industrial concerns as a sales agent for a manufacturer or distributor. The items they may sell range from franchise businesses to magazines to manufactured products. They may sell products at a sales office, call on companies to sell products and/or take orders for products by phone. They look for new business by compiling lists of possible customers from newspapers and directories. They show samples or catalogs to customers, point out features of articles, quote prices and credit terms, and prepare sales contracts. They prepare sales reports and expense accounts, and may arrange for products to be delivered.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
00.0000 NO CIP ASSIGNED	165.157-010 SONG PLUGGER	4 2 4	SIX TO 12 MONTHS
08.0203 MARKETING OF BUSINESS OR PERSONAL SERVIC	251.357-022 SALES REPRESENTATIVE, FRANCHISE	4 3 4	SIX TO 12 MONTHS
	299.167-010 CIRCULATION-SALES REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
08.0605 WHOLESALE FOOD MARKETING	260.357-014 SALES REPRESENTATIVE, FOOD PRODUCTS	4 3 4	SIX TO 12 MONTHS
	260.357-018 SALES REPRESENTATIVE, MALT LIQUORS	4 3 3	THREE TO SIX MONTHS
	260.357-022 SALES REPRESENTATIVE, TOBACCO PRODU	4 3 3	SIX TO 12 MONTHS
08.0702 INDUSTRIAL SALES	261.357-014 SALES REPRESENTATIVE, CANVAS PRODUC	4 3 4	ONE TO TWO YEARS
	269.357-010 SALES REPRESENTATIVE, FUELS	4 3 4	THREE TO SIX MONTHS
	269.357-014 SALES REPRESENTATIVE, PETROLEUM PRO	4 3 4	ONE TO TWO YEARS
	274.357-014 SALES REPRESENTATIVE, BOTTLES AND B	4 3 4	SIX TO 12 MONTHS
	275.357-050 SALES REPRESENTATIVE, VENDING AND C	4 3 4	SIX TO 12 MONTHS
	277.357-010 SALES REPRESENTATIVE, HOBBIES AND C	4 3 4	SIX TO 12 MONTHS
	277.357-018 SALES REPRESENTATIVE, NOVELTIES	4 3 4	THREE TO SIX MONTHS
	277.357-022 SALES REPRESENTATIVE, PUBLICATIONS	4 3 4	SIX TO 12 MONTHS
	277.357-030 SALES REPRESENTATIVE, WRITING AND M	4 3 4	30 TO 90 DAYS
	279.157-010 MANUFACTURERS' REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
	279.357-014 SALES REPRESENTATIVE, GENERAL MERCH	4 3 4	SIX TO 12 MONTHS
	279.357-022 SALES REPRESENTATIVE, LEATHER GOODS	4 3 4	SIX TO 12 MONTHS
	279.357-030 SALES REPRESENTATIVE, PLASTIC PRODU	4 3 4	THREE TO SIX MONTHS
	299.167-010 CIRCULATION-SALES REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
08.0706 SALES	251.357-022 SALES REPRESENTATIVE, FRANCHISE	4 3 4	SIX TO 12 MONTHS
	260.357-014 SALES REPRESENTATIVE, FOOD PRODUCTS	4 3 4	SIX TO 12 MONTHS
	260.357-018 SALES REPRESENTATIVE, MALT LIQUORS	4 3 3	THREE TO SIX MONTHS
	260.357-022 SALES REPRESENTATIVE, TOBACCO PRODU	4 3 3	SIX TO 12 MONTHS
	261.357-014 SALES REPRESENTATIVE, CANVAS PRODUC	4 3 4	ONE TO TWO YEARS
	269.357-010 SALES REPRESENTATIVE, FUELS	4 3 4	THREE TO SIX MONTHS
269.357-014 SALES REPRESENTATIVE, PETROLEUM PRO	4 3 4	ONE TO TWO YEARS	
274.357-014 SALES REPRESENTATIVE, BOTTLES AND B	4 3 4	SIX TO 12 MONTHS	

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OCCUPATION: 4249 SALES REPRESENTATIVES; NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		275.357-050	SALES REPRESENTATIVE, VENDING AND C	4 3 4	SIX TO 12 MONTHS
		277.357-010	SALES REPRESENTATIVE, HOBBIES AND C	4 3 4	SIX TO 12 MONTHS
		277.357-018	SALES REPRESENTATIVE, NOVELTIES	4 3 4	THREE TO SIX MONTHS
		277.357-022	SALES REPRESENTATIVE, PUBLICATIONS	4 3 4	SIX TO 12 MONTHS
		277.357-030	SALES REPRESENTATIVE, WRITING AND M	4 3 4	30 TO 90 DAYS
		279.157-010	MANUFACTURERS' REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
		279.357-014	SALES REPRESENTATIVE, GENERAL MERCH	4 3 4	SIX TO 12 MONTHS
		279.357-022	SALES REPRESENTATIVE, LEATHER GOODS	4 3 4	SIX TO 12 MONTHS
		279.357-030	SALES REPRESENTATIVE, PLASTIC PRODU	4 3 4	THREE TO SIX MONTHS
		299.167-010	CIRCULATION-SALES REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
08.0707	WHOLESALE	269.357-010	SALES REPRESENTATIVE, FUELS	4 3 4	THREE TO SIX MONTHS
		279.157-010	MANUFACTURERS' REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
		279.357-014	SALES REPRESENTATIVE, GENERAL MERCH	4 3 4	SIX TO 12 MONTHS
08.0807	OFFICE PRODUCTS AND EQUIPMENT MARKETING	277.357-030	SALES REPRESENTATIVE, WRITING AND M	4 3 4	30 TO 90 DAYS
08.0904	RECREATIONAL PRODUCTS MARKETING	261.357-014	SALES REPRESENTATIVE, CANVAS PRODUC	4 3 4	ONE TO TWO YEARS
		277.357-010	SALES REPRESENTATIVE, HOBBIES AND C	4 3 4	SIX TO 12 MONTHS
		277.357-018	SALES REPRESENTATIVE, NOVELTIES	4 3 4	THREE TO SIX MONTHS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	275.357-050	SALES REPRESENTATIVE, VENDING AND C	4 3 4	SIX TO 12 MONTHS
08.1204	PETROLEUM WHOLESALE	269.357-014	SALES REPRESENTATIVE, PETROLEUM PRO	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4300

SALES OCCUPATIONS, RETAIL

These workers are concerned with selling goods in small quantities directly to consumers. They may demonstrate or explain items. They may arrange contracts, credit terms, or delivery. Others provide support services for retail sales. They may appraise items for sale or insurance, comparison shop, collect debts, or work as auctioneers. Some work as cashiers, street vendors, or sell door-to-door.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 4340

SALES OCCUPATIONS, COMMODITIES

These workers sell new or used products in retail stores, outlets, and showrooms. They may sell vehicles, boats, cosmetics, musical instruments, jewelry, clothes, gift items, sporting goods, shoes, or furniture, for example. They may meet customers, demonstrate or explain products, and arrange for sale. They fill out contracts or arrange credit terms. They may accept payment and arrange delivery. They may display items, take inventory, and order new stock.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4342

SALESPERSONS; MOTOR VEHICLES, MOBILE HOMES, AND SUPPLIES

These people sell new or used vehicles, such as cars, trucks, or motorcycles. They also sell related accessories and equipment. They sell these items to customers in a store or showroom. They greet customers and ask them the make, type and price range of the vehicle they wish to see. They show vehicles or accessories to customers. They point out the features and prices of the items shown, and may take customers on rides to show them how vehicles handle. They also prepare sales slips or contracts, take payments and may arrange credit purchases.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
08.0705	RETAILING	273.353-010	SALESPERSON, AUTOMOBILES	4	3	4	SIX TO 12 MONTHS
		273.357-030	SALESPERSON, AUTOMOBILE ACCESSORIES	4	3	4	THREE TO SIX MONTHS
		273.357-034	SALESPERSON, TRAILERS AND MOTOR HOM	4	3	4	SIX TO 12 MONTHS
08.0706	SALES	273.353-010	SALESPERSON, AUTOMOBILES	4	3	4	SIX TO 12 MONTHS
		273.357-030	SALESPERSON, AUTOMOBILE ACCESSORIES	4	3	4	THREE TO SIX MONTHS
		273.357-034	SALESPERSON, TRAILERS AND MOTOR HOM	4	3	4	SIX TO 12 MONTHS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	273.353-010	SALESPERSON, AUTOMOBILES	4	3	4	SIX TO 12 MONTHS
		273.357-030	SALESPERSON, AUTOMOBILE ACCESSORIES	4	3	4	THREE TO SIX MONTHS
		273.357-034	SALESPERSON, TRAILERS AND MOTOR HOM	4	3	4	SIX TO 12 MONTHS
08.1205	RECREATIONAL VEHICLES AND ACCESSORIES MA	273.357-034	SALESPERSON, TRAILERS AND MOTOR HOM	4	3	4	SIX TO 12 MONTHS
08.1206	SERVICE STATION RETAILING	273.357-030	SALESPERSON, AUTOMOBILE ACCESSORIES	4	3	4	THREE TO SIX MONTHS

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OCCUPATION: 4343

SALESPERSONS; MUSICAL INSTRUMENTS AND SUPPLIES

These workers sell musical instruments and supplies, such as pianos, organs, guitars, drums, horns, music books, and records. Some sell these products to customers in a store. Others sell musical products for a manufacturer or distributor by calling on retail stores to take orders. They show customers how instruments are played and explain the functions, and care of the instruments. They may help customers select sheet music or recordings. They prepare sales slips or contracts, and may take payments and arrange deliveries. They also may wrap purchases, take inventory or stock, and order replacement products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE , TITLE	CODE TITLE	R M L	
08.0702 INDUSTRIAL SALES	277.357-014 SALES REPRESENTATIVE, MUSICAL INSTR	4 3 4	ONE TO TWO YEARS
08.0705 RETAILING	277.354-010 SALESPERSON, PIANOS AND ORGANS	4 3 4	ONE TO TWO YEARS
	277.357-038 SALESPERSON, MUSICAL INSTRUMENTS AN	4 3 4	ONE TO TWO YEARS
	277.357-046 SALESPERSON, PHONOGRAPH RECORDS AND	3 3 3	30 TO 90 DAYS
	277.357-054 SALESPERSON, SHEET MUSIC	4 3 4	SIX TO 12 MONTHS
08.0706 SALES	277.354-010 SALESPERSON, PIANOS AND ORGANS	4 3 4	ONE TO TWO YEARS
	277.357-014 SALES REPRESENTATIVE, MUSICAL INSTR	4 3 4	ONE TO TWO YEARS
	277.357-038 SALESPERSON, MUSICAL INSTRUMENTS AN	4 3 4	ONE TO TWO YEARS
	277.357-046 SALESPERSON, PHONOGRAPH RECORDS AND	3 3 3	30 TO 90 DAYS
	277.357-054 SALESPERSON, SHEET MUSIC	4 3 4	SIX TO 12 MONTHS
08.0808 SPECIALTY HOME FURNISHINGS MARKETING	277.354-010 SALESPERSON, PIANOS AND ORGANS	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4344

SALESPERSONS; BOATS AND MARINE EQUIPMENT AND SUPPLIES

These people sell boats and boating equipment and supplies for a manufacturer or distributor. Some travel an assigned area to call on retail store buyers. Others sell products to customers at a sales office, showroom, or store. They help customers decide what types of boats or equipment to buy. They may show pictures of boats to customers or even take them on boat rides. They also fill out order forms or sales slips, quote prices and credit terms, keep sales records, and arrange for deliveries.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
08.0702	INDUSTRIAL SALES	273.357-018	SALES REPRESENTATIVE, BOATS AND MAR	4 3 4 SIX TO 12 MONTHS
08.0706	SALES	273.357-018	SALES REPRESENTATIVE, BOATS AND MAR	4 3 4 SIX TO 12 MONTHS
08.1205	RECREATIONAL VEHICLES AND ACCESSORIES MA	273.357-018	SALES REPRESENTATIVE, BOATS AND MAR	4 3 4 SIX TO 12 MONTHS

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OCCUPATION: 4345

SALESPERSONS: SPORTING GOODS

These people sell sporting goods used for athletic activities. Some call on stores and other establishments in an assigned area to sell athletic, playground or other such equipment. Others sell sporting goods and athletic equipment to customers in a store or showroom. These workers help customers choose the products they need and then fill out sales contracts or sales slips. They also may take payments, wrap goods, keep sales records, check inventories and perform other related tasks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0702	INDUSTRIAL SALES	277.357-026	SALES REPRESENTATIVE, RECREATION AN	4 3 4	SIX TO 12 MONTHS
08.0705	RETAILING	277.357-058	SALESPERSON, SPORTING GOODS	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	277.357-026	SALES REPRESENTATIVE, RECREATION AN	4 3 4	SIX TO 12 MONTHS
		277.357-058	SALESPERSON, SPORTING GOODS	4 3 4	SIX TO 12 MONTHS
08.0904	RECREATIONAL PRODUCTS MARKETING	277.357-026	SALES REPRESENTATIVE, RECREATION AN	4 3 4	SIX TO 12 MONTHS
		277.357-058	SALESPERSON, SPORTING GOODS	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4346

SALESPERSONS: GARMENTS AND TEXTILE PRODUCTS

These workers sell clothing and accessories to customers in a store or showroom. They greet customers and help them select and try on garments. They may measure customers, advise them on styles, and answer their questions about the care and cost of garments. They may suggest gift items or sizes. They prepare sales slips and take payments or credit cards for purchases. They also may wrap purchases, take inventories of stock, and place new items on display.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0102	FASHION MERCHANDISING	261.354-010	SALESPERSON, CORSETS	4 3 4	SIX TO 12 MONTHS
		261.357-042	SALESPERSON, FURS	4 3 4	SIX TO 12 MONTHS
		261.357-046	SALESPERSON, INFANTS' AND CHILDREN'	4 3 4	30 TO 90 DAYS
		261.357-050	SALESPERSON, MEN'S AND BOYS' CLOTHI	4 3 4	SIX TO 12 MONTHS
		261.357-054	SALESPERSON, MEN'S FURNISHINGS	4 3 4	THREE TO SIX MONTHS
		261.357-058	SALESPERSON, MILLINERY	4 3 4	30 TO 90 DAYS
		261.357-066	SALESPERSON, WOMEN'S APPAREL AND AC	4 3 4	30 TO 90 DAYS
08.0705	RETAILING	261.354-010	SALESPERSON, CORSETS	4 3 4	SIX TO 12 MONTHS
		261.357-042	SALESPERSON, FURS	4 3 4	SIX TO 12 MONTHS
		261.357-046	SALESPERSON, INFANTS' AND CHILDREN'	4 3 4	30 TO 90 DAYS
		261.357-050	SALESPERSON, MEN'S AND BOYS' CLOTHI	4 3 4	SIX TO 12 MONTHS
		261.357-054	SALESPERSON, MEN'S FURNISHINGS	4 3 4	THREE TO SIX MONTHS
		261.357-058	SALESPERSON, MILLINERY	4 3 4	30 TO 90 DAYS
		261.357-066	SALESPERSON, WOMEN'S APPAREL AND AC	4 3 4	30 TO 90 DAYS
08.0706	SALES	261.354-010	SALESPERSON, CORSETS	4 3 4	SIX TO 12 MONTHS
		261.357-042	SALESPERSON, FURS	4 3 4	SIX TO 12 MONTHS
		261.357-046	SALESPERSON, INFANTS' AND CHILDREN'	4 3 4	30 TO 90 DAYS
		261.357-050	SALESPERSON, MEN'S AND BOYS' CLOTHI	4 3 4	SIX TO 12 MONTHS
		261.357-054	SALESPERSON, MEN'S FURNISHINGS	4 3 4	THREE TO SIX MONTHS
		261.357-058	SALESPERSON, MILLINERY	4 3 4	30 TO 90 DAYS
		261.357-066	SALESPERSON, WOMEN'S APPAREL AND AC	4 3 4	30 TO 90 DAYS
20.0306	FASHION/FABRIC COORDINATION	261.354-010	SALESPERSON, CORSETS	4 3 4	SIX TO 12 MONTHS
		261.357-042	SALESPERSON, FURS	4 3 4	SIX TO 12 MONTHS
		261.357-046	SALESPERSON, INFANTS' AND CHILDREN'	4 3 4	30 TO 90 DAYS
		261.357-050	SALESPERSON, MEN'S AND BOYS' CLOTHI	4 3 4	SIX TO 12 MONTHS
		261.357-054	SALESPERSON, MEN'S FURNISHINGS	4 3 4	THREE TO SIX MONTHS
		261.357-058	SALESPERSON, MILLINERY	4 3 4	30 TO 90 DAYS
		261.357-066	SALESPERSON, WOMEN'S APPAREL AND AC	4 3 4	30 TO 90 DAYS
	261.357-074	SALESPERSON, LEATHER-AND-SUEDE APPA	3 3 3	SIX TO 12 MONTHS	

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OCCUPATION: 4347

SALESPERSONS: BOOKS, STAMPS, COINS, AND STATIONERY

These workers sell books, magazines, stamps, coins, stationery, greeting cards, and related products in a store. They show items to customers and suggest selections that might meet their needs. They may discuss the value of items with customers or help them choose gift items. They prepare sales slips and take payments for purchases. They may wrap purchases, arrange product displays, and take inventory of stock. Some appraise (assign a value to) coins and stamps and buy them from collectors for resale.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0705	RETAILING	277.357-034	SALESPERSON, BOOKS	4 3 4	THREE TO SIX MONTHS
		277.357-062	SALESPERSON, STAMPS OR COINS	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	277.357-034	SALESPERSON, BOOKS	4 3 4	THREE TO SIX MONTHS
		277.357-062	SALESPERSON, STAMPS OR COINS	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4348

SALESPERSONS: FURNITURE AND HOME FURNISHINGS

People in these jobs sell goods used in the home such as furniture, floor coverings, drapes, glass and chinaware, metalware, and related products. Some sell products by traveling to call on businesses and industries. Others sell goods to customers in a store or showroom.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	259.357-026	SALES REPRESENTATIVE, UPHOLSTERY AN	4	3 3	SIX TO 12 MONTHS
		270.357-022	SALESPERSON, CURTAINS AND DRAPERIES	4	3 4	THREE TO SIX MONTHS
		270.357-026	SALESPERSON, FLOOR COVERINGS	4	3 4	THREE TO SIX MONTHS
08.0702	INDUSTRIAL SALES	270.357-010	SALES REPRESENTATIVE, HOME FURNISHI	4	3 4	SIX TO 12 MONTHS
08.0705	RETAILING	270.357-018	SALESPERSON, CHINA AND SILVERWARE	4	3 4	THREE TO SIX MONTHS
		270.357-022	SALESPERSON, CURTAINS AND DRAPERIES	4	3 4	THREE TO SIX MONTHS
		270.357-026	SALESPERSON, FLOOR COVERINGS	4	3 4	THREE TO SIX MONTHS
		270.357-030	SALESPERSON, FURNITURE	4	3 4	THREE TO SIX MONTHS
08.0706	SALES	259.357-026	SALES REPRESENTATIVE, UPHOLSTERY AN	4	3 3	SIX TO 12 MONTHS
		270.357-010	SALES REPRESENTATIVE, HOME FURNISHI	4	3 4	SIX TO 12 MONTHS
		270.357-018	SALESPERSON, CHINA AND SILVERWARE	4	3 4	THREE TO SIX MONTHS
		270.357-022	SALESPERSON, CURTAINS AND DRAPERIES	4	3 4	THREE TO SIX MONTHS
		270.357-026	SALESPERSON, FLOOR COVERINGS	4	3 4	THREE TO SIX MONTHS
		270.357-030	SALESPERSON, FURNITURE	4	3 4	THREE TO SIX MONTHS
08.0805	FURNITURE MARKETING	270.357-010	SALES REPRESENTATIVE, HOME FURNISHI	4	3 4	SIX TO 12 MONTHS
		270.357-030	SALESPERSON, FURNITURE	4	3 4	THREE TO SIX MONTHS
08.0808	SPECIALTY HOME FURNISHINGS MARKETING	270.357-018	SALESPERSON, CHINA AND SILVERWARE	4	3 4	THREE TO SIX MONTHS
19.0602	HOUSEHOLD EQUIPMENT	*270.357-010	SALES REPRESENTATIVE, HOME FURNISHI	4	3 4	SIX TO 12 MONTHS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	270.357-022	SALESPERSON, CURTAINS AND DRAPERIES	4	3 4	THREE TO SIX MONTHS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	259.357-026	SALES REPRESENTATIVE, UPHOLSTERY AN	4	3 3	SIX TO 12 MONTHS
20.0505	HOME DECORATING	270.357-010	SALES REPRESENTATIVE, HOME FURNISHI	4	3 4	SIX TO 12 MONTHS
		270.357-018	SALESPERSON, CHINA AND SILVERWARE	4	3 4	THREE TO SIX MONTHS
		270.357-022	SALESPERSON, CURTAINS AND DRAPERIES	4	3 4	THREE TO SIX MONTHS
		270.357-026	SALESPERSON, FLOOR COVERINGS	4	3 4	THREE TO SIX MONTHS
		270.357-030	SALESPERSON, FURNITURE	4	3 4	THREE TO SIX MONTHS
20.0506	HOME FURNISHINGS AIDE	270.357-010	SALES REPRESENTATIVE, HOME FURNISHI	4	3 4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4348 SALESPERSONS; FURNITURE AND HOME FURNISHINGS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		270.357-018	SALESPERSON, CHINA AND SILVERWARE	4	3	4	THREE TO SIX MONTHS
		270.357-022	SALESPERSON, CURTAINS AND DRAPERIES	4	3	4	THREE TO SIX MONTHS
		270.357-026	SALESPERSON, FLOOR COVERINGS	4	3	4	THREE TO SIX MONTHS
		270.357-030	SALESPERSON, FURNITURE	4	3	4	THREE TO SIX MONTHS

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OCCUPATION: 4351

SALESPERSONS, SHOES

These people fit and sell shoes, boots, and other footwear to customers in a store. They measure customers' feet, select the desired style, color, and size shoes from stock on hand, and help customers try on shoes. They also set up shoe displays, advise on styles, prepare sales slips, take payments, and package or wrap shoes. Some also take inventory of shoes on hand and order new shoes from the stockroom. A few sell shoes to customers in their homes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
08.0104	FOOTWEAR MARKETING	261.357-018	SALES REPRESENTATIVE, FOOTWEAR	4 3 4 ONE TO TWO YEARS
		261.357-062	SALESPERSON, SHOES	4 3 4 30 TO 90 DAYS
		276.257-018	SALESPERSON, ORTHOPEDIC SHOES	4 3 4 ONE TO TWO YEARS
08.0702	INDUSTRIAL SALES	261.357-018	SALES REPRESENTATIVE, FOOTWEAR	4 3 4 ONE TO TWO YEARS
08.0705	RETAILING	261.357-062	SALESPERSON, SHOES	4 3 4 30 TO 90 DAYS
		276.257-018	SALESPERSON, ORTHOPEDIC SHOES	4 3 4 ONE TO TWO YEARS
08.0706	SALES	261.357-018	SALES REPRESENTATIVE, FOOTWEAR	4 3 4 ONE TO TWO YEARS
		261.357-062	SALESPERSON, SHOES	4 3 4 30 TO 90 DAYS
		276.257-018	SALESPERSON, ORTHOPEDIC SHOES	4 3 4 ONE TO TWO YEARS

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OCCUPATION: 4352

SALESPERSONS: RADIO, TELEVISION, HIGH FIDELITY AND HOUSEHOLD APPLIANCES

People who work in these jobs sell items such as radios, TV's, stereo equipment, stoves, washers, dryers, vacuum cleaners, and sewing machines. Some travel to sell products to businesses or industries in an assigned area. Others sell products to customers in a store or showroom. They also fill out sales slips, arrange credit terms, display new products, and advise customers on the use and care of products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0702	INDUSTRIAL SALES	270.357-014	SALES REPRESENTATIVE, HOUSEHOLD APP	4 3 4	SIX TO 12 MONTHS
		271.357-010	SALES REPRESENTATIVE, ELECTRONICS P	4 3 4	ONE TO TWO YEARS
		271.357-014	SALES REPRESENTATIVE, VIDEOTAPE	4 3 4	30 TO 90 DAYS
08.0705	RETAILING	270.352-010	SALESPERSON, SEWING MACHINES	4 3 4	ONE TO TWO YEARS
		270.357-034	SALESPERSON, HOUSEHOLD APPLIANCES	4 3 4	THREE TO SIX MONTHS
08.0706	SALES	270.352-010	SALESPERSON, SEWING MACHINES	4 3 4	ONE TO TWO YEARS
		270.357-014	SALES REPRESENTATIVE, HOUSEHOLD APP	4 3 4	SIX TO 12 MONTHS
		270.357-034	SALESPERSON, HOUSEHOLD APPLIANCES	4 3 4	THREE TO SIX MONTHS
		271.357-010	SALES REPRESENTATIVE, ELECTRONICS P	4 3 4	ONE TO TWO YEARS
		271.357-014	SALES REPRESENTATIVE, VIDEOTAPE	4 3 4	30 TO 90 DAYS
08.0802	APPLIANCE MARKETING	270.352-010	SALESPERSON, SEWING MACHINES	4 3 4	ONE TO TWO YEARS
		270.357-014	SALES REPRESENTATIVE, HOUSEHOLD APP	4 3 4	SIX TO 12 MONTHS
		270.357-034	SALESPERSON, HOUSEHOLD APPLIANCES	4 3 4	THREE TO SIX MONTHS
19.0602	HOUSEHOLD EQUIPMENT	*270.357-014	SALES REPRESENTATIVE, HOUSEHOLD APP	4 3 4	SIX TO 12 MONTHS
20.0505	HOME DECORATING	270.357-034	SALESPERSON, HOUSEHOLD APPLIANCES	4 3 4	THREE TO SIX MONTHS
20.0507	HOME-SERVICE ASSISTING	270.357-034	SALESPERSON, HOUSEHOLD APPLIANCES	4 3 4	THREE TO SIX MONTHS

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OCCUPATION: 4353

SALESPERSONS: HARDWARE

These workers sell hardware and related items, such as power tools, handtools, paints, garden supplies, and electrical and plumbing supplies. They may sell products to customers in a store, or to businesses that use or resell such items. They show products to customers, advise them in making selections and on the uses of tools and materials. Those who call on businesses quote prices and credit terms and prepare sales contracts and expense accounts. Those in stores prepare sales slips and take payments. They also may wrap purchases, arrange product displays, and take inventory of stock.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
01.0503	AGRICULTURAL SUPPLIES MARKETING	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
01.0603	ORNAMENTAL HORTICULTURE	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
01.0606	NURSERY OPERATION AND MANAGEMENT	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
08.0502	FARM AND GARDEN SUPPLIES MARKETING	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
08.0503	FLORISTRY	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
08.0702	INDUSTRIAL SALES	274.357-034	SALES REPRESENTATIVE, HARDWARE SUPP	4	3 4	SIX TO 12 MONTHS
08.0705	RETAILING	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
		279.357-050	SALESPERSON, GENERAL HARDWARE	4	3 4	THREE TO SIX MONTHS
08.0706	SALES	272.357-022	SALESPERSON, HORTICULTURAL AND NURS	4	3 4	THREE TO SIX MONTHS
		274.357-034	SALES REPRESENTATIVE, HARDWARE SUPP	4	3 4	SIX TO 12 MONTHS
		279.357-050	SALESPERSON, GENERAL HARDWARE	4	3 4	THREE TO SIX MONTHS
08.0803	BUILDING MATERIALS MARKETING	279.357-050	SALESPERSON, GENERAL HARDWARE	4	3 4	THREE TO SIX MONTHS
08.0806	HARDWARE MARKETING	274.357-034	SALES REPRESENTATIVE, HARDWARE SUPP	4	3 4	SIX TO 12 MONTHS
		279.357-050	SALESPERSON, GENERAL HARDWARE	4	3 4	THREE TO SIX MONTHS

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OCCUPATION: 4354

SALESPERSONS: COSMETICS, TOILETRIES, AND ALLIED PRODUCTS

These workers sell items such as makeup, perfumes, soaps, face creams, and wigs. They may sell these items to customers in a store or to stores or businesses that use or resell such products. They show products or samples to customers, point out features of articles, and advise on selections. They quote prices and credit terms, prepare sales contracts or slips, and may take payments. Those who travel to call on accounts keep business and expense records. Those who work in stores may arrange product displays, wrap purchases, and take inventory of stock.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		- -----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
08.0102	FASHION MERCHANDISING	261.351-010	SALESPERSON, WIGS	3 3 3	THREE TO SIX MONTHS
08.0702	INDUSTRIAL SALES	262.357-014	SALES REPRESENTATIVE, TOILET PREPAR	4 3 4	SIX TO 12 MONTHS
		275.357-010	SALES REPRESENTATIVE, BARBER AND BE	4 3 4	SIX TO 12 MONTHS
08.0705	RETAILING	261.351-010	SALESPERSON, WIGS	3 3 3	THREE TO SIX MONTHS
		262.357-018	SALESPERSON, COSMETICS AND TOILETRI	3 3 3	THREE TO SIX MONTHS
08.0706	SALES	261.351-010	SALESPERSON, WIGS	3 3 3	THREE TO SIX MONTHS
		262.357-014	SALES REPRESENTATIVE, TOILET PREPAR	4 3 4	SIX TO 12 MONTHS
		262.357-018	SALESPERSON, COSMETICS AND TOILETRI	3 3 3	THREE TO SIX MONTHS
		275.357-010	SALES REPRESENTATIVE, BARBER AND BE	4 3 4	SIX TO 12 MONTHS
12.0403	COSMETOLOGY	261.351-010	SALESPERSON, WIGS	3 3 3	THREE TO SIX MONTHS

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OCCUPATION: 4356

SALESPERSONS: JEWELRY AND RELATED PRODUCTS

These people sell jewelry, gems, watches, and other similar items. Some travel over an assigned area to sell products to business and industrial firms. Others sell products to customers in a store or showroom. They point out the different features of jewelry to customers, quote prices and credit terms, and prepare sales contracts or slips. Those who travel often carry catalogs or sample cases so that they can show products. In stores they may take payments or get credit approved for purchases.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0105	JEWELRY MARKETING	279.357-018	SALES REPRESENTATIVE, JEWELRY	4 3 4	ONE TO TWO YEARS
		279.357-058	SALESPERSON, JEWELRY	4 3 4	SIX TO 12 MONTHS
08.0702	INDUSTRIAL SALES	279.357-018	SALES REPRESENTATIVE, JEWELRY	4 3 4	ONE TO TWO YEARS
08.0705	RETAILING	279.357-058	SALESPERSON, JEWELRY	4 3 4	SIX TO 12 MONTHS
08.0706	SALES	279.357-018	SALES REPRESENTATIVE, JEWELRY	4 3 4	ONE TO TWO YEARS
		279.357-058	SALESPERSON, JEWELRY	4 3 4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4359

SALESPERSONS: N.E.C.

People in these jobs sell products in specialty shops, department stores, or wholesale outlets. They greet customers and find out the type and amounts of goods they desire. They suggest selections, and point out selling points of articles. They also may explain how to use or care for products. They prepare sales slips and take payments or process credit cards for items purchased. They also may put products on display, wrap purchases, and take inventory of stock.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	299.377-010	PLATFORM ATTENDANT	3 2 2	30 TO 90 DAYS
01.0503	AGRICULTURAL SUPPLIES MARKETING	277.357-042	SALESPERSON, PETS AND PET SUPPLIES	4 3 4	THREE TO SIX MONTHS
01.0504	PET GROOMING	277.357-042	SALESPERSON, PETS AND PET SUPPLIES	4 3 4	THREE TO SIX MONTHS
01.0603	ORNAMENTAL HORTICULTURE	260.357-026	SALESPERSON, FLOWERS	4 3 3	THREE TO SIX MONTHS
08.0503	FLORISTRY	260.357-026	SALESPERSON, FLOWERS	4 3 3	THREE TO SIX MONTHS
08.0705	RETAILING	260.357-026	SALESPERSON, FLOWERS	4 3 3	THREE TO SIX MONTHS
		261.357-070	SALESPERSON, YARD GOODS	4 3 4	30 TO 90 DAYS
		276.354-010	SALESPERSON, HEARING AIDS	4 3 4	SIX TO 12 MONTHS
		277.357-042	SALESPERSON, PETS AND PET SUPPLIES	4 3 4	THREE TO SIX MONTHS
		277.357-050	SALESPERSON, PHOTOGRAPHIC SUPPLIES	4 3 4	SIX TO 12 MONTHS
		277.357-066	SALESPERSON, TOY TRAINS AND ACCESSO	4 3 4	30 TO 90 DAYS
		277.457-010	SALESPERSON, ART OBJECTS	3 2 3	THREE TO SIX MONTHS
		279.357-046	SALESPERSON, FLYING SQUAD	4 3 4	ONE TO TWO YEARS
		279.357-054	SALESPERSON, GENERAL MERCHANDISE	4 3 4	THREE TO SIX MONTHS
08.0706	SALES	260.357-026	SALESPERSON, FLOWERS	4 3 3	THREE TO SIX MONTHS
		261.357-070	SALESPERSON, YARD GOODS	4 3 4	30 TO 90 DAYS
		276.354-010	SALESPERSON, HEARING AIDS	4 3 4	SIX TO 12 MONTHS
		277.357-042	SALESPERSON, PETS AND PET SUPPLIES	4 3 4	THREE TO SIX MONTHS
		277.357-050	SALESPERSON, PHOTOGRAPHIC SUPPLIES	4 3 4	SIX TO 12 MONTHS
		277.357-066	SALESPERSON, TOY TRAINS AND ACCESSO	4 3 4	30 TO 90 DAYS
		277.457-010	SALESPERSON, ART OBJECTS	3 2 3	THREE TO SIX MONTHS
		279.357-046	SALESPERSON, FLYING SQUAD	4 3 4	ONE TO TWO YEARS
		279.357-054	SALESPERSON, GENERAL MERCHANDISE	4 3 4	THREE TO SIX MONTHS
08.0808	SPECIALTY HOME FURNISHINGS MARKETING	277.457-010	SALESPERSON, ART OBJECTS	3 2 3	THREE TO SIX MONTHS
20.0306	FASHION/FABRIC COORDINATION	261.357-070	SALESPERSON, YARD GOODS	4 3 4	30 TO 90 DAYS
20.0504	FLORAL DESIGN	260.357-026	SALESPERSON, FLOWERS	4 3 3	THREE TO SIX MONTHS

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OCCUPATION: 4359 SALESPERSONS; NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0505	HOME DECORATING	261.357-070	SALESPERSON, YARD GOODS	4 3 4	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4360

SALES OCCUPATIONS: OTHER

Workers in these occupations sell products to customers. They may work in department stores, businesses that offer services, or as street vendors. Some sell products from a cart or truck while others sell door-to-door. They may help customers select goods or simply receive money for goods or services selected. Some clerks make out receipts for goods sold or received for servicing. They may operate cash registers or keep records. They may check and stock shelves, package purchases, or take inventory.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4362

SALES CLERKS

SALES CLERKS sell a variety of products to customers in such places as department stores, drugstores, hardware stores, and grocery stores. They show items to customers and help them decide what to buy. They also do such things as stock shelves with goods, wrap and package customers' purchases, take payments for goods, make change, and keep records of sales.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
08.0602	CONVENIENCE STORE MARKETING	290.477-018	SALES CLERK, FOOD	3	3	2	30 TO 90 DAYS
		299.367-014	STOCK CLERK, SELF-SERVICE STORE	3	2	2	THREE TO SIX MONTHS
08.0603	SPECIALTY FOODS MARKETING	290.477-018	SALES CLERK, FOOD	3	3	2	30 TO 90 DAYS
08.0604	SUPERMARKET MARKETING	290.477-018	SALES CLERK, FOOD	3	3	2	30 TO 90 DAYS
08.0705	RETAILING	290.477-010	COUPON-REDEMPTION CLERK	3	2	2	UP TO 30 DAYS
		290.477-014	SALES CLERK	3	3	2	30 TO 90 DAYS
		290.477-018	SALES CLERK, FOOD	3	3	2	30 TO 90 DAYS
		299.367-014	STOCK CLERK, SELF-SERVICE STORE	3	2	2	THREE TO SIX MONTHS
		299.467-010	LAYAWAY CLERK	3	3	3	30 TO 90 DAYS
08.0706	SALES	299.677-010	SALES ATTENDANT	3	1	2	UP TO 30 DAYS
		290.477-010	COUPON-REDEMPTION CLERK	3	2	2	UP TO 30 DAYS
		290.477-014	SALES CLERK	3	3	2	30 TO 90 DAYS
		290.477-018	SALES CLERK, FOOD	3	3	2	30 TO 90 DAYS
08.0803	BUILDING MATERIALS MARKETING	299.677-010	SALES ATTENDANT	3	1	2	UP TO 30 DAYS
		299.677-014	SALES ATTENDANT, BUILDING MATERIALS	2	2	2	30 TO 90 DAYS

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OCCUPATION: 4363

COUNTER CLERKS

COUNTER CLERKS work in businesses that offer services such as car rentals, dry cleaning, printing, repair, or storage. They take orders for services and may receive articles to be serviced. They advise customers of the types and costs of services available and the dates when orders will be completed. They may examine articles received, record information about them, and tag them. They also collect payments for services and may keep records of cash receipts and articles received and delivered. In some jobs, workers may have other duties in addition to those described above.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	249.362-010	COUNTER CLERK	4 2 4	SIX TO 12 MONTHS
		295.467-022	TRAILER-RENTAL CLERK	3 3 3	THREE TO SIX MONTHS
08.0102	FASHION MERCHANDISING	295.357-010	APPAREL-RENTAL CLERK	3 3 3	30 TO 90 DAYS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	295.357-014	TOOL-AND-EQUIPMENT-RENTAL CLERK	3 3 3	THREE TO SIX MONTHS
		295.367-014	BABY-STROLLER AND WHEELCHAIR RENTAL	3 2 3	UP TO 30 DAYS
		295.367-026	STORAGE-FACILITY RENTAL CLERK	3 3 3	UP TO 30 DAYS
		295.467-018	HOSPITAL-TELEVISION-RENTAL CLERK	2 2 2	UP TO 30 DAYS
		369.467-010	MANAGER, BRANCH STORE	3 2 2	30 TO 90 DAYS
		369.477-014	SERVICE-ESTABLISHMENT ATTENDANT	3 2 2	30 TO 90 DAYS
08.0705	RETAILING	249.366-010	COUNTER CLERK	2 2 2	UP TO 30 DAYS
		369.367-010	FUR-STORAGE CLERK	4 3 3	ONE TO TWO YEARS
08.0706	SALES	295.357-010	APPAREL-RENTAL CLERK	3 3 3	30 TO 90 DAYS
		295.357-014	TOOL-AND-EQUIPMENT-RENTAL CLERK	3 3 3	THREE TO SIX MONTHS
		295.367-014	BABY-STROLLER AND WHEELCHAIR RENTAL	3 2 3	UP TO 30 DAYS
		295.467-010	BICYCLE-RENTAL CLERK	2 2 2	UP TO 30 DAYS
		295.467-014	BOAT-RENTAL CLERK	3 3 3	UP TO 30 DAYS
		295.467-018	HOSPITAL-TELEVISION-RENTAL CLERK	2 2 2	UP TO 30 DAYS
08.0805	FURNITURE MARKETING	295.357-018	FURNITURE-RENTAL CONSULTANT	3 2 2	UP TO 30 DAYS
08.0903	MARKETING OF RECREATIONAL SERVICES	295.467-010	BICYCLE-RENTAL CLERK	2 2 2	UP TO 30 DAYS
		295.467-014	BOAT-RENTAL CLERK	3 3 3	UP TO 30 DAYS
		369.477-014	SERVICE-ESTABLISHMENT ATTENDANT	3 2 2	30 TO 90 DAYS
08.1207	VEHICLE RENTAL AND LEASING	295.467-022	TRAILER-RENTAL CLERK	3 3 3	THREE TO SIX MONTHS
		295.477-010	AUTOMOBILE-RENTAL CLERK	3 3 3	THREE TO SIX MONTHS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	369.367-014	RUG MEASURER	3 2 2	THREE TO SIX MONTHS
		369.467-010	MANAGER, BRANCH STORE	3 2 2	30 TO 90 DAYS

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OCCUPATION: 4363 COUNTER CLERKS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		359.677-010	SELF-SERVICE-LAUNDRY-AND-DRY-CLEANI	3	1 3	UP TO 30 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	216.482-030	LAUNDRY PRICING CLERK	3	3 2	30 TO 90 DAYS
		369.467-010	MANAGER, BRANCH STORE	3	2 2	30 TO 90 DAYS
		369.477-014	SERVICE-ESTABLISHMENT ATTENDANT	3	2 2	30 TO 90 DAYS
		369.677-010	SELF-SERVICE-LAUNDRY-AND-DRY-CLEANI	3	1 3	UP TO 30 DAYS
20.0306	FASHION/FABRIC COORDINATION	295.357-010	APPAREL-RENTAL CLERK	3	3 3	30 TO 90 DAYS
20.0308	WEDDING/SPECIALTY CONSULTING	295.357-010	APPAREL-RENTAL CLERK	3	3 3	30 TO 90 DAYS
20.0506	HOME FURNISHINGS AIDE	295.357-018	FURNITURE-RENTAL CONSULTANT	3	2 2	UP TO 30 DAYS
47.0408	WATCH REPAIR	299.367-018	WATCH-AND-CLOCK-REPAIR CLERK	3	3 3	SIX TO 12 MONTHS

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OCCUPATION: 4364

CASHIERS

CASHIERS handle payments from customers for businesses. Most CASHIERS receive money, make change, fill out charge forms, and give receipts. They also may sell tickets or goods, add up the cost of purchases, and operate several types of machines. A growing number of them use electronic registers that automatically add in taxes and record inventory numbers and other information. Some use adding machines or change-dispensing machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M I TRAINING TIME
00.0000 NO CIP ASSIGNED	211.462-022 CASHIER, GAMBLING	3 3 2 THREE TO SIX MONTHS
	211.462-038 TOLL COLLECTOR	3 2 2 UP TO 30 DAYS
	211.467-018 PARIMUTUEL-TICKET CASHIER	3 2 2 UP TO 30 DAYS
	211.467-022 PARIMUTUEL-TICKET SELLER	3 2 2 UP TO 30 DAYS
07.0205 TELLER	211.362-010 CASHIER 1	4 3 3 SIX TO 12 MONTHS
	211.362-014 FOREIGN BANKNOTE TELLER-TRADER	4 4 4 SIX TO 12 MONTHS
	211.367-010 PAYMASTER OF PURSES	4 4 3 ONE TO TWO YEARS
	211.462-026 CHECK CASHIER	3 3 2 30 TO 90 DAYS
	211.462-030 DRIVERS'-CASH CLERK	3 2 1 30 TO 90 DAYS
	211.462-034 TELLER	3 2 2 30 TO 90 DAYS
	211.467-014 MONEY COUNTER	3 3 2 30 TO 90 DAYS
	211.457-026 SHEET WRITER	3 2 2 UP TO 30 DAYS
	211.482-010 CASHIER, TUBE ROOM	3 2 2 30 TO 90 DAYS
	249.467-010 INFORMATION CLERK-CASHIER	3 2 3 SIX TO 12 MONTHS
08.0102 FASHION MERCHANDISING	211.462-018 CASHIER-WRAPPER	3 2 2 30 TO 90 DAYS
08.0104 FOOTWEAR MARKETING	211.462-018 CASHIER-WRAPPER	3 2 2 30 TO 90 DAYS
08.0602 CONVENIENCE STORE MARKETING	211.462-010 CASHIER 2	3 3 2 UP TO 30 DAYS
	211.462-014 CASHIER-CHECKER	3 2 2 30 TO 90 DAYS
08.0603 SPECIALTY FOODS MARKETING	211.462-010 CASHIER 2	3 3 2 UP TO 30 DAYS
	211.462-014 CASHIER-CHECKER	3 2 2 30 TO 90 DAYS
08.0604 SUPERMARKET MARKETING	211.462-014 CASHIER-CHECKER	3 2 2 30 TO 90 DAYS
08.0701 AUCTIONEERING	294.567-010 AUCTION CLERK	2 2 2 30 TO 90 DAYS
08.0703 INTERNATIONAL MARKETING	211.362-014 FOREIGN BANKNOTE TELLER-TRADER	4 4 4 SIX TO 12 MONTHS
08.0705 RETAILING	211.362-010 CASHIER 1	4 3 3 SIX TO 12 MONTHS
	211.462-010 CASHIER 2	3 3 2 UP TO 30 DAYS

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OCCUPATION: 4364 CASHIERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		211.462-014	CASHIER-CHECKER	3	2	2	30 TO 90 DAYS
		211.462-018	CASHIER-WRAPPER	3	2	2	30 TO 90 DAYS
		211.467-010	CASHIER, COURTESY BOOTH	3	3	3	THREE TO SIX MONTHS
		211.482-010	CASHIER, TUBE ROOM	3	2	2	30 TO 90 DAYS
08.0706	SALES	294.567-010	AUCTION CLERK	2	2	2	30 TO 90 DAYS
08.0707	WHOLESALE	211.462-010	CASHIER 2	3	3	2	UP TO 30 DAYS
08.0903	MARKETING OF RECREATIONAL SERVICES	211.467-030	TICKET SELLER	3	2	1	UP TO 30 DAYS
08.0904	RECREATIONAL PRODUCTS MARKETING	211.362-010	CASHIER 1	4	3	3	SIX TO 12 MONTHS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	209.567-014	ORDER CLERK, FOOD AND BEVERAGE	3	1	2	UP TO 30 DAYS
08.1105	TRAVEL SERVICES MARKETING	211.467-030	TICKET SELLER	3	2	1	UP TO 30 DAYS
20.0406	FOOD SERVICE	211.462-010	CASHIER 2	3	3	2	UP TO 30 DAYS

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OCCUPATION: 4365

NEWS VENDORS

NEWS VENDORS sell newspapers. Some sell newspapers to customers on the street or from newspaper stands. Others sell and deliver newspapers door-to-door along an assigned route or in a neighborhood. These workers may walk or ride a bicycle to deliver newspapers. They collect payments for newspapers and return change. Some also keep records of customer accounts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	292.457-010	NEWSPAPER CARRIER	2 2 2 UP TO 30 DAYS

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OCCUPATION: 4366

STREET VENDORS, DOOR-TO-DOOR SALESWORKERS, AND RELATED OCCUPATIONS

People in these jobs sell products in places other than stores. For example, some sell various items to guests at home parties; magazines, books, or cosmetics, from door to door; flowers to ships' passengers or candy and cigars to hotel or nightclub guests; fruits, vegetables, or ice cream from a cart or truck; refreshments at sports events and parades. These workers take payments and make change. Some take orders and deliver products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	291.457-010 CIGARETTE VENDOR	2 3 2 UP TO 30 DAYS
	291.457-018 PEDDLER	2 2 1 30 TO 90 DAYS
	299.357-014 TELEPHONE SOLICITOR	3 3 3 30 TO 90 DAYS
08.0203 MARKETING OF BUSINESS OR PERSONAL SERVIC	293.137-010 SUPERVISOR, BLOOD-DONOR RECRUITERS	4 3 4 ONE TO TWO YEARS
	293.157-010 FUND RAISER 1	5 3 4 ONE TO TWO YEARS
	293.357-010 BLOOD-DONOR RECRUITER	4 2 4 30 TO 90 DAYS
	293.357-014 FUND RAISER 2	3 2 3 UP TO 30 DAYS
08.0503 FLORISTRY	291.454-010 LEI SELLER	2 2 2 UP TO 30 DAYS
08.0702 INDUSTRIAL SALES	291.357-010 SALES REPRESENTATIVE, DOOR-TO-DOOR	3 2 3 UP TO 30 DAYS
08.0705 RETAILING	279.357-038 SALESPERSON-DEMONSTRATOR, PARTY PLA	4 3 4 THREE TO SIX MONTHS
	291.357-010 SALES REPRESENTATIVE, DOOR-TO-DOOR	3 2 3 UP TO 30 DAYS
08.0706 SALES	279.357-038 SALESPERSON-DEMONSTRATOR, PARTY PLA	4 3 4 THREE TO SIX MONTHS
	291.357-010 SALES REPRESENTATIVE, DOOR-TO-DOOR	3 2 3 UP TO 30 DAYS
	291.454-010 LEI SELLER	2 2 2 UP TO 30 DAYS
	291.457-014 LOUNGE-CAR ATTENDANT	2 2 2 UP TO 30 DAYS
	291.457-022 VENDOR	2 2 2 UP TO 30 DAYS
	293.157-010 FUND RAISER 1	5 3 4 ONE TO TWO YEARS
	293.357-010 BLOOD-DONOR RECRUITER	4 2 4 30 TO 90 DAYS
	293.357-014 FUND RAISER 2	3 2 3 UP TO 30 DAYS
08.0808 SPECIALTY HOME FURNISHINGS MARKETING	279.357-038 SALESPERSON-DEMONSTRATOR, PARTY PLA	4 3 4 THREE TO SIX MONTHS
08.0903 MARKETING OF RECREATIONAL SERVICES	291.457-022 VENDOR	2 2 2 UP TO 30 DAYS
08.0905 WAITER/WAITRESS AND RELATED SERVICES	291.457-014 LOUNGE-CAR ATTENDANT	2 2 2 UP TO 30 DAYS

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OCCUPATION: 4367

SALESPERSON: PARTS

People in these jobs work behind counters in repair shops or parts stores. They sell spare or replacement parts for such items as appliances, machines, and equipment. They also do such things as prepare sales slips, receive payments, and keep records of the parts kept in stock.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0503	AGRICULTURAL SUPPLIES MARKETING	279.357-062	SALESPERSON, PARTS	4 3 4	ONE TO TWO YEARS
08.0705	RETAILING	279.357-062	SALESPERSON, PARTS	4 3 4	ONE TO TWO YEARS
08.0706	SALES	279.357-062	SALESPERSON, PARTS	4 3 4	ONE TO TWO YEARS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	279.357-062	SALESPERSON, PARTS	4 3 4	ONE TO TWO YEARS
08.1206	SERVICE STATION RETAILING	279.357-062	SALESPERSON, PARTS	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4369

SALES OCCUPATIONS: SERVICES, N.E.C.

People in these jobs sell or rent out specialty products or sell special services. Some sell items such as cemetery plots, season tickets, special courses, or custom-made movies. Some rent out bicycles, boats, fishing equipment, cars, tools, clothing, or TV sets. They may sell items at a store or counter, or by phoning, writing to, or visiting potential customers. They explain the products or services available, quote prices, take orders, and fill out sales contracts or rental forms. They also compute fees and accept payments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	259.157-010	SALES REPRESENTATIVE, AUDIOVISUAL P	4	3	4	SIX TO 12 MONTHS
		259.257-010	SALES REPRESENTATIVE, EDUCATION COU	4	3	4	SIX TO 12 MONTHS
		259.357-010	GROUP-SALES REPRESENTATIVE	3	2	3	30 TO 90 DAYS
		259.357-014	SALES REPRESENTATIVE, DANCING INSTR	3	2	3	THREE TO SIX MONTHS
		259.357-022	SALES REPRESENTATIVE, TELEVISION CA	4	3	4	30 TO 90 DAYS
		273.357-014	SALES REPRESENTATIVE, AUTOMOTIVE-LE	4	3	4	SIX TO 12 MONTHS
08.0705	RETAILING	279.357-042	SALESPERSON, BURIAL NEEDS	4	3	4	SIX TO 12 MONTHS
08.0706	SALES	259.157-010	SALES REPRESENTATIVE, AUDIOVISUAL P	4	3	4	SIX TO 12 MONTHS
		259.257-010	SALES REPRESENTATIVE, EDUCATION COU	4	3	4	SIX TO 12 MONTHS
		259.357-010	GROUP-SALES REPRESENTATIVE	3	2	3	30 TO 90 DAYS
		259.357-014	SALES REPRESENTATIVE, DANCING INSTR	3	2	3	THREE TO SIX MONTHS
		259.357-022	SALES REPRESENTATIVE, TELEVISION CA	4	3	4	30 TO 90 DAYS
		259.357-034	TICKET BROKER	4	3	4	ONE TO TWO YEARS
		273.357-014	SALES REPRESENTATIVE, AUTOMOTIVE-LE	4	3	4	SIX TO 12 MONTHS
		279.357-042	SALESPERSON, BURIAL NEEDS	4	3	4	SIX TO 12 MONTHS
		295.367-010	AIRPLANE-CHARTER CLERK	4	3	4	30 TO 90 DAYS
08.0903	MARKETING OF RECREATIONAL SERVICES	259.357-010	GROUP-SALES REPRESENTATIVE	3	2	3	30 TO 90 DAYS
		259.357-034	TICKET BROKER	4	3	4	ONE TO TWO YEARS
08.1104	TOURISM	259.357-010	GROUP-SALES REPRESENTATIVE	3	2	3	30 TO 90 DAYS
08.1105	TRAVEL SERVICES MARKETING	252.157-010	TRAVEL AGENT	3	3	3	THREE TO SIX MONTHS
		295.367-010	AIRPLANE-CHARTER CLERK	4	3	4	30 TO 90 DAYS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	273.357-014	SALES REPRESENTATIVE, AUTOMOTIVE-LE	4	3	4	SIX TO 12 MONTHS
08.1206	SERVICE STATION RETAILING	915.667-010	CAR-WASH ATTENDANT, AUTOMATIC	2	2	1	UP TO 30 DAYS
08.1207	VEHICLE RENTAL AND LEASING	273.357-014	SALES REPRESENTATIVE, AUTOMOTIVE-LE	4	3	4	SIX TO 12 MONTHS

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OCCUPATION: 4400

SALES RELATED OCCUPATIONS

These workers perform such sales-related tasks as determining the value of goods for pawning, sales, or insurance purposes. They may work as appraisers, auctioneers, or comparison shoppers. Others may collect past-due accounts, demonstrate products, model for advertisements, take measurements for draperies or other custom goods, or provide other sales support services.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4440

APPRAISERS AND RELATED OCCUPATIONS

People in these jobs examine objects to determine how much they are worth. The objects they appraise include jewelry, cameras, machinery, works of art, and many other items. Some estimate the value of articles to be pawned, insured, or sold. Others inspect paintings, antiques, and other works of art to see if they are authentic and to assign values to them. APPRAISERS may weigh items, inspect them with magnifying glasses, or use chemical tests in deciding the value of objects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	191.157-010	PAWNBROKER	4 4 4 ONE TO TWO YEARS
		191.287-014	APPRAISER, ART	5 4 4 FOUR TO TEN YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	191.287-010	APPRAISER	5 5 5 TWO TO FOUR YEARS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	191.287-010	APPRAISER	5 5 5 TWO TO FOUR YEARS

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OCCUPATION: 4450

DEMONSTRATORS, PROMOTERS, AND MODELS

People in these jobs work to create buying interest on the part of the public. They do this in a number of ways. Some demonstrate and answer questions about merchandise in a store. Others model clothes, pose for advertising pictures, or visit people to persuade them to join a club or buy a store's products or services. Duties may range from promoting a store's sales by playing Santa Claus to escorting potential buyers of real estate on tours of property. Workers also may sell the products or services they promote.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	297.451-010	INSTRUCTOR, PAINTING	3 3 3	THREE TO SIX MONTHS
		299.647-010	IMPERSONATOR, CHARACTER	3 1 3	UP TO 30 DAYS
		299.687-014	SANDWICH-BOARD CARRIER	1 1 1	SHORT DEMONSTRATION
		961.367-010	MODEL, PHOTOGRAPHERS'	3 1 1	THREE TO SIX MONTHS
		961.667-010	MODEL, ARTISTS'	3 1 1	30 TO 90 DAYS
06.1701	REAL ESTATE	297.667-010	GUIDE, REAL ESTATE	3 2 3	UP TO 30 DAYS
08.0102	FASHION MERCHANDISING	297.667-014	MODEL	3 1 2	30 TO 90 DAYS
08.0103	FASHION MODELING	*297.667-014	MODEL	3 1 2	30 TO 90 DAYS
		*961.367-010	MODEL, PHOTOGRAPHERS'	3 1 1	THREE TO SIX MONTHS
08.0202	DISPLAY	297.357-010	DEMONSTRATOR, ELECTRIC-GAS APPLIANC	5 3 5	ONE TO TWO YEARS
		297.367-010	EXHIBIT-DISPLAY REPRESENTATIVE	4 2 4	SIX TO 12 MONTHS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	293.357-018	GOODWILL AMBASSADOR	3 2 3	UP TO 30 DAYS
		293.357-022	MEMBERSHIP SOLICITOR	4 3 4	THREE TO SIX MONTHS
08.0705	RETAILING	279.357-010	SALES EXHIBITOR	3 2 3	30 TO 90 DAYS
		297.354-010	DEMONSTRATOR	3 3 3	30 TO 90 DAYS
08.0706	SALES	279.357-010	SALES EXHIBITOR	3 2 3	30 TO 90 DAYS
		293.357-018	GOODWILL AMBASSADOR	3 2 3	UP TO 30 DAYS
		293.357-022	MEMBERSHIP SOLICITOR	4 3 4	THREE TO SIX MONTHS
		297.354-010	DEMONSTRATOR	3 3 3	30 TO 90 DAYS
		297.357-010	DEMONSTRATOR, ELECTRIC-GAS APPLIANC	5 3 5	ONE TO TWO YEARS
		297.367-010	EXHIBIT-DISPLAY REPRESENTATIVE	4 2 4	SIX TO 12 MONTHS
		297.667-010	GUIDE, REAL ESTATE	3 2 3	UP TO 30 DAYS
08.0802	APPLIANCE MARKETING	297.357-010	DEMONSTRATOR, ELECTRIC-GAS APPLIANC	5 3 5	ONE TO TWO YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	293.357-022	MEMBERSHIP SOLICITOR	4 3 4	THRE TO SIX MONTHS
20.0306	FASHION/FABRIC COORDINATION	297.354-010	DEMONSTRATOR	3 3 3	30 TO 90 DAYS

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OCCUPATION: 4450 DEMONSTRATORS, PROMOTERS, AND MODELS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
	297.354-014 DEMONSTRATOR, KNITTING	4 4 4 SIX TO 12 MONTHS
	297.454-010 DEMONSTRATOR, SEWING TECHNIQUES	3 3 3 30 TO 90 DAYS
20.0507 HOME-SERVICE ASSISTING	297.354-010 DEMONSTRATOR	3 3 3 30 TO 90 DAYS
	297.357-010 DEMONSTRATOR, ELECTRIC-GAS APPLIANC	5 3 5 ONE TO TWO YEARS
	297.454-010 DEMONSTRATOR, SEWING TECHNIQUES	3 3 3 30 TO 90 DAYS
20.0603 CONSUMER AIDE/ASSISTING	297.354-010 DEMONSTRATOR	3 3 3 30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4460

SHOPPERS

SHOPPERS visit or contact stores to buy or gather information about products for customers or a store. Some select and buy items for customers as requested by mail or phone. Others phone auto dealers to find types of cars desired by customers. Still others, called COMPARISON SHOPPERS, visit stores to get information about the prices, packaging, types, and styles of goods in competing stores. This information helps the companies they work for to set prices and buying policies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0705	RETAILING	296.357-010	PERSONAL SHOPPER	4 3 3	SIX TO 12 MONTHS
08.0706	SALES	296.357-010	PERSONAL SHOPPER	4 3 3	SIX TO 12 MONTHS
		296.367-010	AUTOMOBILE LOCATOR	3 2 3	30 TO 90 DAYS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	296.367-010	AUTOMOBILE LOCATOR	3 2 3	30 TO 90 DAYS
20.0306	FASHION/FABRIC COORDINATION	296.357-010	PERSONAL SHOPPER	4 3 3	SIX TO 12 MONTHS
		296.367-014	COMPARISON SHOPPER	4 2 3	30 TO 90 DAYS
20.0603	CONSUMER AIDE/ASSISTING	296.357-010	PERSONAL SHOPPER	4 3 3	SIX TO 12 MONTHS
		296.367-014	COMPARISON SHOPPER	4 2 3	30 TO 90 DAYS

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OCCUPATION: 4470

AUCTIONEERS

AUCTIONEERS ask people to bid for articles at an auction, and then sell each item to the highest bidder. Before an auction begins, they decide what articles are worth and arrange them according to their type or value. They may select articles to be auctioned or let the bidders choose items they wish to bid on. They begin the auction by asking for a starting bid. They also describe the merchandise and may tell the bidders about the history or ownership of items. They finally sell each item to the highest bidder.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
01.0503	AGRICULTURAL SUPPLIES MARKETING	294.257-010	AUCTIONEER	3 2 3 ONE TO TWO YEARS
08.0701	AUCTIONEERING	294.257-010	AUCTIONEER	3 2 3 ONE TO TWO YEARS
08.0706	SALES	294.257-010	AUCTIONEER	3 2 3 ONE TO TWO YEARS

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OCCUPATION: 4490

SALES OCCUPATIONS: OTHER, N.E.C.

These workers perform tasks to support the sales activities of a business or firm. They engage in various activities such as advising brides-to-be on the selection of clothing and china, recording bids at an auction, or measuring people's windows for drapes. Some wrap gifts, mark prices on goods, or make deliveries. Some assist customers in trying on clothing or in trying on eyeglass frames

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	299.364-010	DRAPERY AND UPHOLSTERY MEASURER	3	3	2	ONE TO TWO YEARS
		299.387-010	DRAPERY AND UPHOLSTERY ESTIMATOR	3	3	2	SIX TO 12 MONTHS
		299.387-014	STAMP ANALYST	4	2	3	ONE TO TWO YEARS
		299.387-018	STAMP CLASSIFIER	4	2	3	ONE TO TWO YEARS
		299.474-010	OPTICIAN, DISPENSING 2	4	3	4	ONE TO TWO YEARS
08.0102	FASHION MERCHANDISING	299.357-018	WEDDING CONSULTANT	4	3	4	ONE TO TWO YEARS
		299.667-014	STOCK CHECKER, APPAREL	2	1	1	UP TO 30 DAYS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	299.357-010	LINEN CONTROLLER	4	2	3	ONE TO TWO YEARS
08.0705	RETAILING	299.357-018	WEDDING CONSULTANT	4	3	4	ONE TO TWO YEARS
		299.364-014	GIFT WRAPPER	3	2	1	30 TO 90 DAYS
		299.477-010	DELIVERER, MERCHANDISE	2	2	2	UP TO 30 DAYS
08.0706	SALES	299.357-010	LINEN CONTROLLER	4	2	3	ONE TO TWO YEARS
		299.357-018	WEDDING CONSULTANT	4	3	4	ONE TO TWO YEARS
		299.364-014	GIFT WRAPPER	3	2	1	30 TO 90 DAYS
09.0201	ADVERTISING	299.667-010	BILLPOSTER	2	1	2	UP TO 30 DAYS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	299.357-010	LINEN CONTROLLER	4	2	3	ONE TO TWO YEARS
17.0701	OPHTHALMIC DISPENSING	299.474-010	OPTICIAN, DISPENSING 2	4	3	4	ONE TO TWO YEARS
17.0705	OPTOMETRIC TECHNOLOGY	299.474-010	OPTICIAN, DISPENSING 2	4	3	4	ONE TO TWO YEARS
18.1201	OPTOMETRY	*299.474-010	OPTICIAN, DISPENSING 2	4	3	4	ONE TO TWO YEARS
20.0308	WEDDING/SPECIALTY CONSULTING	299.357-018	WEDDING CONSULTANT	4	3	4	ONE TO TWO YEARS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	299.364-010	DRAPERY AND UPHOLSTERY MEASURER	3	3	2	ONE TO TWO YEARS
		299.387-010	DRAPERY AND UPHOLSTERY ESTIMATOR	3	3	2	SIX TO 12 MONTHS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	299.364-010	DRAPERY AND UPHOLSTERY MEASURER	3	3	2	ONE TO TWO YEARS

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OCCUPATION: 4490 SALES OCCUPATIONS; OTHER, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		299.387-010	DRAPERY AND UPHOLSTERY ESTIMATOR	3 3 2	SIX TO 12 MONTHS
20.0506	HOME FURNISHINGS AIDE	299.364-010	DRAPERY AND UPHOLSTERY MEASURER	3 3 2	ONE TO TWO YEARS
		299.387-010	DRAPERY AND UPHOLSTERY ESTIMATOR	3 3 2	SIX TO 12 MONTHS
48.0303	UPHOLSTERING	299.364-010	DRAPERY AND UPHOLSTERY MEASURER	3 3 2	ONE TO TWO YEARS
		299.387-010	DRAPERY AND UPHOLSTERY ESTIMATOR	3 3 2	SIX TO 12 MONTHS

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OCCUPATION: 4499

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

These workers perform jobs that enable an organization to run smoothly. They may work as secretaries, typists, or stenographers. Others run computers, computer-related equipment, or other office machines. Some gather and file data while others keep inventories, disperse materials, or fill out forms. They may investigate claims, provide various kinds of information, or collect debts and serve notices. Some plan and supervise the work of others.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 4500

SUPERVISORS; ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

These workers supervise the activities of others who perform jobs that help an organization to run smoothly. They determine the work that needs to be done by such workers as file clerks, information clerks, office machine operators, bill collectors, and distributing clerks. They establish work procedures, assign workers, and set up work schedules. They train workers, review work for neatness and accuracy, and find ways to improve efficiency.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4511

SUPERVISORS: GENERAL OFFICE OCCUPATIONS

These workers supervise clerical staff who perform routine duties in an office. They set up work procedures, prepare work schedules, and see to it that office work runs smoothly. They assign duties to office workers and check their work for neatness and accuracy. They listen to workers' complaints and try to resolve them. They also train staff and may prepare letters and forms, and take dictation, check inventories, order office supplies, and keep payroll and other records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0401	OFFICE SUPERVISION AND MANAGEMENT	209.132-014	TECHNICAL COORDINATOR	4 4 4	TWO TO FOUR YEARS
		245.137-010	WARD-SERVICE SUPERVISOR	4 3 4	ONE TO TWO YEARS
		249.137-010	OFFICE SUPERVISOR, ANIMAL HOSPITAL	4 3 4	ONE TO TWO YEARS
		375.137-022	SECRETARY OF POLICE	4 3 4	TWO TO FOUR YEARS
07.0605	MEDICAL SECRETARIAL	245.137-010	WARD-SERVICE SUPERVISOR	4 3 4	ONE TO TWO YEARS
07.0606	SECRETARIAL	375.137-022	SECRETARY OF POLICE	4 3 4	TWO TO FOUR YEARS
17.0606	HEALTH UNIT MANAGEMENT	245.137-010	WARD-SERVICE SUPERVISOR	4 3 4	ONE TO TWO YEARS
43.0108	LAW ENFORCEMENT ADMINISTRATION	*375.137-022	SECRETARY OF POLICE	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 4512

SUPERVISORS: COMPUTER AND PERIPHERAL EQUIPMENT OPERATORS

These people supervise the activities of workers who operate computers and related machines. They train workers and see that the machines are cleaned and cared for. They set up work schedules, assign duties to workers, and help solve work problems. They prepare report forms and compile reports on the progress of work. They also develop methods to process information used by computers. They wire control boards to prepare machines for different operations. They also may make minor changes in computer programs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.2101	COMPUTER INSTALLATION MANAGEMENT	213.132-010	SUPERVISOR, COMPUTER OPERATIONS	5 5 4	TWO TO FOUR YEARS
07.0302	BUSINESS COMPUTER AND CONSOLE OPERATION	213.132-010	SUPERVISOR, COMPUTER OPERATIONS	5 5 4	TWO TO FOUR YEARS
		213.132-014	SUPERVISOR, MACHINE-RECORDS UNIT	4 3 4	TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	213.132-010	SUPERVISOR, COMPUTER OPERATIONS	5 5 4	TWO TO FOUR YEARS
		213.132-014	SUPERVISOR, MACHINE-RECORDS UNIT	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 4513

SUPERVISORS: SECRETARIES, STENOGRAPHERS, AND TYPISTS

These people supervise workers who type, take dictation, or perform similar clerical tasks. They determine work procedures and prepare work schedules. They give spoken and written instructions to workers, assign them duties, and check their work for neatness and correctness. They also study office procedures and plan ways to make work go more smoothly. They help workers solve problems and may work along with them. They also write reports and keep records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	203.137-014	TYPING SECTION CHIEF	4 2 3	ONE TO TWO YEARS
07.0607	STENOGRAPHIC	202.132-010	SUPERVISOR, STENO POOL	4 2 4	ONE TO TWO YEARS
		203.132-014	SUPERVISOR, TRANSCRIBING OPERATORS	4 2 4	ONE TO TWO YEARS
07.0801	WORD PROCESSING	*203.137-010	SUPERVISOR, WORD PROCESSING	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4514

SUPERVISORS: INFORMATION CLERKS

These people supervise workers who compile and give out information and provide other services to the public. They determine work procedures and prepare work schedules. They give instructions, assign duties, and review work for neatness and exactness. They also look for ways to improve work efficiency. They handle complaints and adjust errors. They may hire, train, and dismiss workers. They may prepare reports, order supplies, and keep time and other records. They also may perform duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.0701	HOTEL/MOTEL MANAGEMENT	238.137-010	MANAGER, RESERVATIONS	4 2 3	SIX TO 12 MONTHS
06.0703	RESORT MANAGEMENT	238.137-010	MANAGER, RESERVATIONS	4 2 3	SIX TO 12 MONTHS
06.0705	TRANSPORTATION MANAGEMENT	237.137-014	SUPERVISOR, TRAVEL-INFORMATION CENT	4 3 4	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	168.167-058	MANAGER, CUSTOMER SERVICE	5 5 5	FOUR TO TEN YEARS
		205.137-014	SUPERVISOR, SURVEY WORKERS	4 3 3	ONE TO TWO YEARS
		237.137-010	SUPERVISOR, TELEPHONE INFORMATION	4 3 4	TWO TO FOUR YEARS
		237.137-014	SUPERVISOR, TRAVEL-INFOAMTION CENT	4 3 4	ONE TO TWO YEARS
		238.137-014	SENIOR RESERVATIONS AGENT	4 3 3	ONE TO TWO YEARS
238.137-022	SUPERVISOR, TICKET SALES	4 3 4	ONE TO TWO YEARS		
07.0605	MEDICAL SECRETARIAL	205.137-010	ADMITTING OFFICER	4 2 3	TWO TO FOUR YEARS
07.0705	GENERAL OFFICE CLERK	910.137-038	STATION AGENT 1	4 3 4	ONE TO TWO YEARS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	205.137-010	ADMITTING OFFICER	4 2 3	TWO TO FOUR YEARS
		205.137-014	SUPERVISOR, SURVEY WORKERS	4 3 3	ONE TO TWO YEARS
		237.137-010	SUPERVISOR, TELEPHONE INFORMATION	4 3 4	TWO TO FOUR YEARS
		237.137-014	SUPERVISOR, TRAVEL-INFORMATION CENT	4 3 4	ONE TO TWO YEARS
		238.137-014	SENIOR RESERVATIONS AGENT	4 3 3	ONE TO TWO YEARS
08.1102	TRANSPORTATION MARKETING	238.137-018	SUPERVISOR, GATE SERVICES	4 2 4	TWO TO FOUR YEARS
		910.137-038	STATION AGENT 1	4 3 4	ONE TO TWO YEARS
08.1104	TOURISM	237.137-014	SUPERVISOR, TRAVEL-INFORMATION CENT	4 3 4	ONE TO TWO YEARS
08.1105	TRAVEL SERVICES MARKETING	237.137-014	SUPERVISOR, TRAVEL-INFORMATION CENT	4 3 4	ONE TO TWO YEARS
		238.137-014	SENIOR RESERVATIONS AGENT	4 3 3	ONE TO TWO YEARS
		238.137-022	SUPERVISOR, TICKET SALES	4 3 4	ONE TO TWO YEARS
15.0204	URBAN PLANNING TECHNOLOGY	249.167-010	AUTOMOBILE-CLUB-SAFETY-PROGRAM COOR	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4516

SUPERVISORS, CORRESPONDENCE CLERKS AND ORDER CLERKS

These people supervise clerks who process orders for products and prepare a company's correspondence. They plan work procedures, prepare work schedules, and see to it that work is completed on time. They assign duties to workers and check their work for neatness, exactness, and conformance to company policies. They resolve worker and customer complaints, prepare work reports, and may help workers complete difficult tasks. They also keep work records and may hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	239.137-014	CUSTOMER-SERVICE REPRESENTATIVE SUP	4	2	3	ONE TO TWO YEARS
		247.137-014	SUPERVISOR, CLASSIFIED ADVERTISING	4	3	4	ONE TO TWO YEARS
		249.137-014	SUPERVISOR, CONTACT AND SERVICE CLE	4	2	4	TWO TO FOUR YEARS
		249.137-022	SUPERVISOR, CUSTOMER RECORDS DIVISI	4	3	4	TWO TO FOUR YEARS
		249.137-026	SUPERVISOR, ORDER TAKERS	4	3	4	SIX TO 12 MONTHS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	239.137-014	CUSTOMER-SERVICE REPRESENTATIVE SUP	4	2	3	ONE TO TWO YEARS
		247.137-014	SUPERVISOR, CLASSIFIED ADVERTISING	4	3	4	ONE TO TWO YEARS
		249.137-014	SUPERVISOR, CONTACT AND SERVICE CLE	4	2	4	TWO TO FOUR YEARS
		249.137-018	SUPERVISOR, CORRESPONDENCE SECTION	4	2	4	ONE TO TWO YEARS
		249.137-022	SUPERVISOR, CUSTOMER RECORDS DIVISI	4	3	4	TWO TO FOUR YEARS
		249.137-026	SUPERVISOR, ORDER TAKERS	4	3	4	SIX TO 12 MONTHS
07.0703	CORRESPONDENCE CLERK	249.137-018	SUPERVISOR, CORRESPONDENCE SECTION	4	2	4	ONE TO TWO YEARS
09.0201	ADVERTISING	247.137-014	SUPERVISOR, CLASSIFIED ADVERTISING	4	3	4	ONE TO TWO YEARS

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OCCUPATION: 4519

SUPERVISORS; RECORDS CLERKS

These people supervise workers who compile, file, and maintain records. This includes workers who shelve library books, rent out safety deposit boxes, keep office records, or code data processing forms. They determine work procedures, prepare work schedules, and see to it that work runs smoothly. They train workers, assign duties, and check work for neatness and accuracy. They prepare reports, handle complaints, adjust errors, and solve difficult work problems. They also may perform duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.1001	INVESTMENTS AND SECURITIES	*219.132-018	SUPERVISOR, TRUST EVALUATION	4 4 4	ONE TO TWO YEARS
06.1401	MARKETING MANAGEMENT	186.137-010	SUPERVISOR, SAFETY DEPOSIT	3 3 3	ONE TO TWO YEARS
07.0102	ACCOUNTING AND COMPUTING	219.132-018	SUPERVISOR, TRUST EVALUATION	4 4 4	ONE TO TWO YEARS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	214.137-014	MANAGER, STATEMENT CLERKS	4 3 4	TWO TO FOUR YEARS
07.0203	INSURANCE CLERK	219.132-010	SUPERVISOR, POLICY-CHANGE CLERKS	4 3 4	TWO TO FOUR YEARS
07.0205	TELLER	214.137-014	MANAGER, STATEMENT CLERKS	4 3 4	TWO TO FOUR YEARS
07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERATION	209.137-022	SUPERVISOR, CODING CLERKS	4 3 4	TWO TO FOUR YEARS
		219.137-014	SUPERVISOR, DATA-CONTROL CLERK	4 2 3	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	109.137-010	SHELVING SUPERVISOR	4 2 4	ONE TO TWO YEARS
		186.137-010	SUPERVISOR, SAFETY DEPOSIT	3 3 3	ONE TO TWO YEARS
		209.132-010	SUPERVISOR, PERSONNEL CLERKS	4 2 4	ONE TO TWO YEARS
		209.137-018	SUPERVISOR, AGENCY APPOINTMENTS	4 3 4	TWO TO FOUR YEARS
		209.137-022	SUPERVISOR, CODING CLERKS	4 3 4	TWO TO FOUR YEARS
		214.137-014	MANAGER, STATEMENT CLERKS	4 3 4	TWO TO FOUR YEARS
		216.132-014	SUPERVISOR, SECURITIES VAULT	4 3 4	TWO TO FOUR YEARS
		219.132-010	SUPERVISOR, POLICY-CHANGE CLERKS	4 3 4	TWO TO FOUR YEARS
		219.132-018	SUPERVISOR, TRUST EVALUATION	4 4 4	ONE TO TWO YEARS
		219.132-022	SUPERVISOR, UNDERWRITING CLERKS	4 3 4	TWO TO FOUR YEARS
		219.137-014	SUPERVISOR, DATA-CONTROL CLERK	4 2 3	ONE TO TWO YEARS
07.0503	PERSONNEL ASSISTING	209.132-010	SUPERVISOR, PERSONNEL CLERKS	4 2 4	ONE TO TWO YEARS
07.0705	GENERAL OFFICE CLERK	206.137-010	SUPERVISOR, FILES	4 2 4	ONE TO TWO YEARS
08.0401	FINANCIAL SERVICES MARKETING	186.137-010	SUPERVISOR, SAFETY DEPOSIT	3 3 3	ONE TO TWO YEARS
		219.132-018	SUPERVISOR, TRUST EVALUATION	4 4 4	ONE TO TWO YEARS

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OCCUPATION: 4521

SUPERVISORS: FINANCIAL RECORD PROCESSING OCCUPATIONS

These people supervise workers who compile, review, prepare, and maintain financial and related records for a business. They determine work procedures, prepare work schedules, and see to it that the work goes smoothly. They assign duties to workers and check their work for neatness, accuracy, and conformance to company policies. They help workers handle work problems and may hire, train, and fire workers. They also keep work records, reports, and may perform other duties in addition to supervising workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.0000	NO CIP ASSIGNED	216.137-010	COST-AND-SALES-RECORD SUPERVISOR	5 5 4	TWO TO FOUR YEARS
07.0102	ACCOUNTING AND COMPUTING	210.132-010	SUPERVISOR, AUDIT CLERKS	4 4 3	ONE TO TWO YEARS
		214.137-022	SUPERVISOR, ACCOUNTS RECEIVABLE	4 4 3	FOUR TO TEN YEARS
		215.137-014	PAYROLL CLERK, CHIEF	4 4 4	FOUR TO TEN YEARS
		216.132-010	SUPERVISOR, ACCOUNTING CLERKS	4 4 4	TWO TO FOUR YEARS
07.0103	BOOKKEEPING	216.137-014	STOCK-TRANSFER CLERK, HEAD	4 4 4	ONE TO TWO YEARS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	217.132-010	PROOF-MACHINE-OPERATOR SUPERVISOR	4 3 4	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	210.132-010	SUPERVISOR, AUDIT CLERKS	4 4 3	ONE TO TWO YEARS
		214.137-010	DOCUMENTATION SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		214.137-022	SUPERVISOR, ACCOUNTS RECEIVABLE	4 4 3	FOUR TO TEN YEARS
		215.137-014	PAYROLL CLERK, CHIEF	4 4 4	FOUR TO TEN YEARS
		216.132-010	SUPERVISOR, ACCOUNTING CLERKS	4 4 4	TWO TO FOUR YEARS
		216.137-010	COST-AND-SALES-RECORD SUPERVISOR	5 5 4	TWO TO FOUR YEARS
		216.137-014	STOCK-TRANSFER CLERK, HEAD	4 4 4	ONE TO TWO YEARS
		217.132-010	PROOF-MACHINE-OPERATOR SUPERVISOR	4 3 4	ONE TO TWO YEARS
08.0401	FINANCIAL SERVICES MARKETING	216.137-014	STOCK-TRANSFER CLERK, HEAD	4 4 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4522

SUPERVISORS: DUPLICATING, MAIL, AND OTHER OFFICE MACHINE OPERATORS

These people supervise workers who operate office machines used to copy material or prepare and handle mail. They may work in the duplications department or mail room of a business or in a post office. They plan work procedures, prepare work schedules, and see to it that work is completed on time. They assign duties to workers, check their work for neatness and accuracy, and recommend ways to improve work efficiency. They also handle complaints and help workers complete difficult tasks. They may hire and train workers and keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.137-010	MAILROOM SUPERVISOR	4 3 4	ONE TO TWO YEARS
		222.137-022	MAILROOM SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		243.137-010	SUPERVISOR, MAILS	4 2 3	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	222.137-022	MAILROOM SUPERVISOR	4 2 3	TWO TO FOUR YEARS
07.0704	NO CIP ASSIGNED	207.137-010	CHIEF CLERK, PRINT SHOP	4 2 3	ONE TO TWO YEARS

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OCCUPATION: 4523

CHIEF COMMUNICATIONS OPERATORS

These people supervise workers who operate telephone and telegraph equipment. They work in places such as telephone offices, business firms, and airports. They determine work procedures, prepare work schedules, and see to it that work is properly done. They assign duties to workers, check their work for neatness and accuracy and recommend ways to improve work efficiency. They also handle complaints and difficult work problems. They may hire, train, and fire workers and keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
07.0401	OFFICE SUPERVISION AND MANAGEMENT	203.132-010	SUPERVISOR, TELEGRAPHIC-TYPEWRITER	4	2	4 TWO TO FOUR YEARS
		235.132-010	CENTRAL-OFFICE-OPERATOR SUPERVISOR	4	2	3 ONE TO TWO YEARS
		235.132-014	COMMUNICATION-CENTER COORDINATOR	4	3	4 SIX TO 12 MONTHS
		239.137-022	SERVICE OBSERVER, CHIEF	4	2	4 TWO TO FOUR YEARS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	203.132-010	SUPERVISOR, TELEGRAPHIC-TYPEWRITER	4	2	4 TWO TO FOUR YEARS
		235.132-010	CENTRAL-OFFICE-OPERATOR SUPERVISOR	4	2	3 ONE TO TWO YEARS
		235.132-014	COMMUNICATION-CENTER COORDINATOR	4	3	4 SIX TO 12 MONTHS
		235.137-010	TELEPHONE OPERATOR, CHIEF	4	2	3 ONE TO TWO YEARS
		239.137-022	SERVICE OBSERVER, CHIEF	4	2	4 TWO TO FOUR YEARS

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OCCUPATION: 4524

SUPERVISORS: MAIL AND MESSAGE DISTRIBUTION CLERKS

These workers supervise workers who distribute messages and mail and perform related clerical duties. They determine work procedures, prepare work schedules, and instruct the staff in day-to-day operations. They assign duties to workers and check their work for accuracy and completeness. they also prepare work reports and investigate customer complaints. In some jobs, they are also responsible for maintaining time and personnel records and for hiring, training and firing workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	230.137-018	SUPERVISOR, MAIL CARRIERS	4 3 4	ONE TO TWO YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	239.132-010	SUPERVISOR, TELEPHONE CLERKS	4 2 4	SIX TO 12 MONTHS
		239.137-026	SUPERVISOR, PUBLIC MESSAGE SERVICE	4 3 4	TWO TO FOUR YEARS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	239.132-010	SUPERVISOR, TELEPHONE CLERKS	4 2 4	SIX TO 12 MONTHS
		239.137-026	SUPERVISOR, PUBLIC MESSAGE SERVICE	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 4525

SUPERVISORS: MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS

These people supervise workers receive, store, mark and issue, or ship supplies. They study assignments to determine the workers, materials, and supplies needed to meet work schedules. They assign duties to workers and direct their activities. They also recommend ways to improve work methods and conditions. They may prepare production or other reports, order materials, and check materials received. They may hire, train, and fire workers. They also may perform some or all of the duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.137-014	METER READER, CHIEF	4 2 3	ONE TO TWO YEARS
		221.137-010	CONTROL CLERK, HEAD	4 3 4	ONE TO TWO YEARS
		222.137-026	PETROLEUM-INSPECTOR SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		229.137-014	YARD SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		922.137-010	SENIOR-COMMISSARY AGENT	4 3 3	TWO TO FOUR YEARS
		959.137-014	DISPATCHER, SERVICE, CHIEF	4 3 3	TWO TO FOUR YEARS
		959.137-018	ORDER DISPATCHER, CHIEF	4 2 3	ONE TO TWO YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	959.137-010	DISPATCHER, CHIEF, SERVICE OR WORK	4 3 3	TWO TO FOUR YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	209.137-026	SUPERVISOR, MARKING ROOM	3 2 3	ONE TO TWO YEARS
		214.137-018	RATE SUPERVISOR	4 3 3	ONE TO TWO YEARS
		215.137-010	CREW SCHEDULER, CHIEF	4 3 4	TWO TO FOUR YEARS
		215.137-018	SUPERVISOR, FORCE ADJUSTMENT	4 3 4	TWO TO FOUR YEARS
		221.132-010	CHIEF CLERK, MEASUREMENT DEPARTMENT	4 4 4	TWO TO FOUR YEARS
		221.137-014	SUPERVISOR, PRODUCTION CLERKS	4 4 4	TWO TO FOUR YEARS
		221.137-018	SUPERVISOR, PRODUCTION CONTROL	4 3 4	FOUR TO TEN YEARS
		222.137-010	FILM-VAULT SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		222.137-014	LINEN-ROOM SUPERVISOR	4 3 3	ONE TO TWO YEARS
		222.137-018	MAGAZINE SUPERVISOR	4 2 3	ONE TO TWO YEARS
		222.137-030	SHIPPING-AND-RECEIVING SUPERVISOR	4 3 4	ONE TO TWO YEARS
		222.137-034	STOCK SUPERVISOR	4 3 3	ONE TO TWO YEARS
		222.137-038	STOCK-CONTROL SUPERVISOR	4 3 3	ONE TO TWO YEARS
		222.137-042	SUPERVISOR, ASSEMBLY STOCK	4 2 3	ONE TO TWO YEARS
		222.137-046	TOOL-CRIB SUPERVISOR	4 3 3	ONE TO TWO YEARS
		229.137-010	SACK-DEPARTMENT SUPERVISOR	4 3 2	ONE TO TWO YEARS
		230.137-014	SUPERVISOR, DELIVERY DEPARTMENT	4 2 3	ONE TO TWO YEARS
		239.137-018	ROUTE SUPERVISOR	4 2 3	ONE TO TWO YEARS
		247.137-010	SUPERVISOR, ADVERTISING-DISPATCH CL	4 2 4	SIX TO 12 MONTHS
		248.137-010	BOOKING SUPERVISOR	4 3 3	ONE TO TWO YEARS
		248.137-018	SUPERVISOR, CUSTOMER SERVICES	4 3 4	ONE TO TWO YEARS
		959.137-018	ORDER DISPATCHER, CHIEF	4 2 3	ONE TO TWO YEARS
07.0705	GENERAL OFFICE CLERK	222.137-050	VAULT CASHIER	4 3 3	SIX TO 12 MONTHS

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OCCUPATION: 4525 SUPERVISORS; MATERIAL RECORDING, SCHEDULING, AND DI (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	230.137-014	SUPERVISOR, DELIVERY DEPARTMENT	4 2 3	ONE TO TWO YEARS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	222.137-010	FILM-VAULT SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		222.137-018	MAGAZINE SUPERVISOR	4 2 3	ONE TO TWO YEARS
		222.137-030	SHIPPING-AND-RECEIVING SUPERVISOR	4 3 4	ONE TO TWO YEARS
		222.137-034	STOCK SUPERVISOR	4 3 3	ONE TO TWO YEARS
		222.137-038	STOCK-CONTROL SUPERVISOR	4 3 3	ONE TO TWO YEARS
		222.137-042	SUPERVISOR, ASSEMBLY STOCK	4 2 3	ONE TO TWO YEARS
		222.137-046	TOOL-CRIB SUPERVISOR	4 3 3	ONE TO TWO YEARS
		229.137-010	SACK-DEPARTMENT SUPERVISOR	4 3 2	ONE TO TWO YEARS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	248.137-010	BOOKING SUPERVISOR	4 3 3	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	222.137-014	LINEN-ROOM SUPERVISOR	4 3 3	ONE TO TWO YEARS
08.0705	RETAILING	209.137-026	SUPERVISOR, MARKING ROOM	3 2 3	ONE TO TWO YEARS
08.0904	RECREATIONAL PRODUCTS MARKETING	222.137-034	STOCK SUPERVISOR	4 3 3	ONE TO TWO YEARS
		222.137-038	STOCK-CONTROL SUPERVISOR	4 3 3	ONE TO TWO YEARS
08.1102	TRANSPORTATION MARKETING	248.137-010	BOOKING SUPERVISOR	4 3 3	ONE TO TWO YEARS
		248.137-018	SUPERVISOR, CUSTOMER SERVICES	4 3 4	ONE TO TWO YEARS
		910.137-010	BAGGAGE-AND-MAIL AGENT	4 3 3	ONE TO TWO YEARS
09.0201	ADVERTISING	247.137-010	SUPERVISOR, ADVERTISING-DISPATCH CL	4 2 4	SIX TO 12 MONTHS
17.0502	CENTRAL SUPPLY TECHNOLOGY	079.164-010	SUPERVISOR, CENTRAL SUPPLY	4 4 4	ONE TO TWO YEARS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	789.137-010	BOXING-AND-PRESSING SUPERVISOR	4 3 3	ONE TO TWO YEARS

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OCCUPATION: 4528

SUPERVISORS: ADJUSTERS, INVESTIGATORS, AND COLLECTORS

These people supervise workers who do such things as adjust insurance claims, collect overdue payments, or collect money from coin boxes. They plan work activities, prepare work schedules, and see to it that work goes smoothly. They assign duties to workers and check their work for exactness and neatness. They handle worker and customer complaints and prepare work reports. They may keep time and personnel records and oversee preparation of payrolls. They also may hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	241.137-010	SUPERVISOR, CREDIT AND LOAN COLLECT	4 3 4	SIX TO 12 MONTHS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	241.137-010	SUPERVISOR, CREDIT AND LOAN COLLECT	4 3 4	SIX TO 12 MONTHS
		241.137-014	SUPERVISOR, CUSTOMER-COMPLAINT SERV	4 3 4	SIX TO 12 MONTHS
07.0703	CORRESPONDENCE CLERK	241.137-014	SUPERVISOR, CUSTOMER-COMPLAINT SERV	4 3 4	SIX TO 12 MONTHS
08.0401	FINANCIAL SERVICES MARKETING	241.137-010	SUPERVISOR, CREDIT AND LOAN COLLECT	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4529

SUPERVISORS, MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS

These people supervise workers who receive, pay out, and/or keep records of money for a business. These workers include bank tellers, cashiers, food checkers, and clerks who prepare purchase orders and receipts. They determine the workers and supplies needed, establish work procedures, assign duties. They hire and train new workers, explain company policies, and enforce rules. They resolve customer and worker complaints. They count and deposit money received, keep accounts and other records, and authorize payments. They also handle complaints and other problems and may perform some or all of the duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.0704	RESTAURANT MANAGEMENT	211.137-014	SUPERVISOR, FOOD CHECKERS AND CASHI	4 4 3	TWO TO FOUR YEARS
06.0705	TRANSPORTATION MANAGEMENT	248.137-014	PURCHASING-AND-CLAIMS SUPERVISOR	4 3 4	ONE TO TWO YEARS
07.0205	TELLER	211.132-010	TELLER, HEAD	4 3 4	FOUR TO TEN YEARS
		211.137-010	SUPERVISOR, CASHIERS	4 3 3	TWO TO FOUR YEARS
		211.137-022	SUPERVISOR, TELLERS	4 4 4	FOUR TO TEN YEARS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	211.132-010	TELLER, HEAD	4 3 4	FOUR TO TEN YEARS
		211.137-010	SUPERVISOR, CASHIERS	4 3 3	TWO TO FOUR YEARS
		211.137-018	SUPERVISOR, MONEY-ROOM	4 4 3	ONE TO TWO YEARS
		211.137-022	SUPERVISOR, TELLERS	4 4 4	FOUR TO TEN YEARS
		219.137-010	FIELD CASHIER	4 4 4	TWO TO FOUR YEARS
		248.137-014	PURCHASING-AND-CLAIMS SUPERVISOR	4 3 4	ONE TO TWO YEARS
		292.137-010	COIN-MACHINE-COLLECTOR SUPERVISOR	3 3 3	SIX TO 12 MONTHS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	248.137-014	PURCHASING-AND-CLAIMS SUPERVISOR	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4600

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

These workers perform jobs to help a business or organization run smoothly. They work as bank tellers, hotel clerks, or correspondence clerks. They operate office machines for financial recordkeeping or duplicating. Some interview people to complete forms while others maintain information in files. Some process library materials or examine insurance claims. Others may collect debts or work as inventory clerks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4610

COMPUTER AND PERIPHERAL EQUIPMENT OPERATORS

Workers in these occupations operate and tend computers or the equipment that issued with computers. They may read programmers' instructions and set up a computer run. Or they may operate the machinery that loads the computers, the printers, and the equipment used for computer output. They may be responsible for card-to-tape machines, card sorters, and collators. They watch for problems with the computer or peripheral equipment and try to solve those problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4612

COMPUTER OPERATORS

COMPUTER OPERATORS control and tend computers used to process business, scientific, engineering, and other data. They read special instructions prepared by PROGRAMMERS and decide what computer equipment should be set up for each job. To process the input, they first load the computer with the correct cards, tapes, or disks, and then they start the computer. While it is running, they watch for error lights or other signals that indicate problems. When problems occur, they may locate and solve them or stop the program.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
07.0302	BUSINESS COMPUTER AND CONSOLE OPERATION	213.362-010	COMPUTER OPERATOR	4 2 3 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4613

PERIPHERAL EQUIPMENT OPERATORS

PERIPHERAL EQUIPMENT OPERATORS operate machines that are used along with computers. These machines include devices used to load data into computers, (such as tape drives and disk drives), as well as printers and other devices used to retrieve computer output. Also included are stand-alone equipment, such as card-to-tape machines, card sorters, and collators (machines that arrange material in a certain order). These workers set up and adjust these machines, load and unload input cards or tapes, and unload and sort computer output such as cards or printouts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	213.582-010	DIGITIZER OPERATOR	3 3 2	SIX TO 12 MONTHS
07.0304	BUSINESS DATA PERIPHERAL EQUIPMENT OPERA	208.685-030	SORTING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		213.382-010	COMPUTER-PERIPHERAL-EQUIPMENT OPERA	4 2 3	THREE TO SIX MONTHS
		213.682-010	TABULATING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		213.685-010	AUXILIARY-EQUIPMENT OPERATOR, DATA	2 1 1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4620

SECRETARIES, STENOGRAPHERS, TYPISTS

Workers in these occupations take dictation, type, and perform other duties to run an office. They may record and type letters, reports, and other information. They may run other office equipment, do filing, receive callers, and make appointments. Some workers answer letters, write reports, and do research. Some specialize in medicine, law, or science. Some supervise other workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4622

SECRETARIES

SECRETARIES set appointments, deal with callers, take dictation, and type. In offices where typing is done in word processing centers, they often handle a number of other duties. These duties range from filing, routing mail, and answering the phone to more responsible work such as answering letters, doing research, and writing reports. Some SECRETARIES specialize in a certain area, such as medicine, law, science, or education. Some supervise a clerical staff.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R	M	L	TRAINING TIME
CODE	TITLE	CODE	TITLE					
07.0604	LEGAL SECRETARIAL	201.362-010	LEGAL SECRETARY	4	2	4		ONE TO TWO YEARS
07.0605	MEDICAL SECRETARIAL	201.362-014	MEDICAL SECRETARY	4	3	4		TWO TO FOUR YEARS
07.0606	SECRETARIAL	201.162-010	SOCIAL SECRETARY	4	2	4		ONE TO TWO YEARS
		201.362-018	MEMBERSHIP SECRETARY	4	3	4		30 TO 90 DAYS
		201.362-022	SCHOOL SECRETARY	4	3	4		ONE TO TWO YEARS
		201.362-026	SCRIPT SUPERVISOR	4	2	4		ONE TO TWO YEARS
		201.362-030	SECRETARY	4	3	4		ONE TO TWO YEARS
17.0503	MEDICAL ASSISTING	201.362-014	MEDICAL SECRETARY	4	3	4		TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4623

STENOGRAPHERS

STENOGRAPHERS take dictation of letters, reports, and other worded materials. They may take dictation using either shorthand or a stenotype machine that prints symbols as certain keys are pressed. Experienced STENOGRAPHERS can take difficult dictation. For example, they may sit in on meetings or proceedings and later give reports or word-for-word records of what was said. Some specialize in taking dictation in foreign languages. Others work for business people who travel.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
07.0602	COURT REPORTING	202.362-010	SHORTHAND REPORTER	3 2 3	ONE TO TWO YEARS
07.0607	STENOGRAPHIC	202.362-014	STENOGRAPHER	3 2 3	SIX TO 12 MONTHS
		202.362-018	STENOGRAPHER, PRINT SHOP	3 2 3	SIX TO 12 MONTHS
		202.362-022	STENOTYPE OPERATOR	4 2 4	SIX TO 12 MONTHS
		203.582-058	TRANSCRIBING-MACHINE OPERATOR	3 1 3	THREE TO SIX MONTHS
07.0801	WORD PROCESSING	*203.582-058	TRANSCRIBING-MACHINE OPERATOR	3 1 3	THREE TO SIX MONTHS
17.0506	MEDICAL RECORDS TECHNOLOGY	203.582-058	TRANSCRIBING-MACHINE OPERATOR	3 1 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4624

TYPISTS

TYPISTS make typed copies of handwritten, printed, and recorded words. They may do other office tasks, such as answering the phone, filing, and running office machines. They may plan and type tables, prepare reports using many source materials, and make master copies of reports to be reproduced. They may listen to a recording and type what is heard.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	203.382-010	BORDEREAU CLERK	3 2 3	THREE TO SIX MONTHS
		203.582-066	TYPIST	3 2 3	30 TO 90 DAYS
		209.382-010	CONTINUITY CLERK	3 1 3	SIX TO 12 MONTHS
07.0203	INSURANCE CLERK	203.382-010	BORDEREAU CLERK	3 2 3	THREE TO SIX MONTHS
07.0602	COURT REPORTING	203.582-078	NOTEREADER	3 1 3	SIX TO 12 MONTHS
07.0607	STENOGRAPHIC	203.582-078	NOTEREADER	3 1 3	SIX TO 12 MONTHS
07.0702	CLERK-TYPIST	203.362-010	CLERK-TYPIST	3 2 3	THREE TO SIX MONTHS
07.0801	WORD PROCESSING	*203.362-022	WORD-PROCESSING-MACHINE OPERATOR	3 1 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4630

GENERAL OFFICE OCCUPATIONS

People in these jobs do general clerical work. They type, file, record information, answer the phone, and perform other similar tasks that help an office run smoothly.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	219.362-026	CONTRACT CLERK, AUTOMOBILE	4 3 3	SIX TO 12 MONTHS
		249.367-014	CAREER-GUIDANCE TECHNICIAN	4 3 4	ONE TO TWO YEARS
01.0505	ANIMAL TRAINING	349.367-014	RECEIVING-BARN CUSTODIAN	3 2 3	30 TO 90 DAYS
07.0605	MEDICAL SECRETARIAL	245.362-014	WARD CLERK	3 3 3	30 TO 90 DAYS
		245.367-014	BLOOD-DONOR-UNIT ASSISTANT	2 1 2	UP TO 30 DAYS
		245.367-018	CALENDAR-CONTROL CLERK, BLOOD BANK	3 2 2	30 TO 90 DAYS
07.0705	GENERAL OFFICE CLERK	209.562-010	CLERK, GENERAL	3 2 3	UP TO 30 DAYS
		209.567-022	OFFICE CLERK	3 2 3	UP TO 30 DAYS
		219.362-010	ADMINISTRATIVE CLERK	4 3 3	THREE TO SIX MONTHS
		219.362-022	CLERK, TELEGRAPH SERVICE	4 3 3	SIX TO 12 MONTHS
		219.362-026	CONTRACT CLERK, AUTOMOBILE	4 3 3	SIX TO 12 MONTHS
		219.362-046	REAL-ESTATE CLERK	4 3 3	SIX TO 12 MONTHS
		243.362-014	POLICE AIDE	3 2 3	30 TO 90 DAYS
		245.367-010	ANIMAL-HOSPITAL CLERK	3 2 3	THREE TO SIX MONTHS
		249.367-010	ANIMAL-SHELTER CLERK	3 2 3	30 TO 90 DAYS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	209.362-030	CONGRESSIONAL-DISTRICT AIDE	4 3 4	SIX TO 12 MONTHS
17.0513	HEALTH UNIT COORDINATING	245.362-014	WARD CLERK	3 3 3	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4640

INFORMATION CLERKS

These workers gather and provide information. They may interview people in order to complete forms or records. They may work in hotels, helping guests check in or out, and insuring good service. Others help plan travel routes, make reservations, and issue tickets. Some answer questions about insurance, stock prices, mortgage requirements, or other things. Some help people complete transactions, listen to complaints, write letters, or perform other clerical tasks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4642

INTERVIEWING CLERKS

INTERVIEWING CLERKS talk to people to get information that is needed to complete forms or records. They may talk to people in person or by phone. They ask specific questions of people, record their answers, and help people fill out forms. Some also sort, classify, and file completed forms.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	205.367-014	CHARGE-ACCOUNT CLERK	3 2 3	UP TO 30 DAYS
		205.367-022	CREDIT CLERK	4 3 4	THREE TO SIX MONTHS
		205.367-046	REHABILITATION CLERK	3 2 2	THREE TO SIX MONTHS
		209.382-018	STATEMENT-REQUEST CLERK	3 3 3	THREE TO SIX MONTHS
06.1402	MARKETING RESEARCH	205.367-054	SURVEY WORKER	3 1 2	30 TO 90 DAYS
07.0205	TELLER	205.362-026	NEW-ACCOUNTS CLERK	4 4 4	SIX TO 12 MONTHS
07.0401	OFFICE SUPERVISION AND MANAGEMENT	205.367-050	SUPERVISOR, CONTINGENTS	4 2 4	ONE TO TWO YEARS
07.0503	PERSONNEL ASSISTING	205.367-050	SUPERVISOR, CONTINGENTS	4 2 4	ONE TO TWO YEARS
07.0605	MEDICAL SECRETARIAL	205.362-018	HOSPITAL-ADMITTING CLERK	3 2 3	ONE TO TWO YEARS
		205.362-030	OUTPATIENT-ADMITTING CLERK	3 2 3	THREE TO SIX MONTHS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	205.362-018	HOSPITAL-ADMITTING CLERK	3 2 3	ONE TO TWO YEARS
		205.362-030	OUTPATIENT-ADMITTING CLERK	3 2 3	THREE TO SIX MONTHS
		205.367-042	REGISTRATION CLERK	3 2 3	30 TO 90 DAYS
08.0401	FINANCIAL SERVICES MARKETING	205.367-014	CHARGE-ACCOUNT CLERK	3 2 3	UP TO 30 DAYS
		205.367-022	CREDIT CLERK	4 3 4	THREE TO SIX MONTHS
08.0705	RETAILING	205.367-014	CHARGE-ACCOUNT CLERK	3 2 3	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4643

HOTEL CLERKS

HOTEL CLERKS register guests, assign them to rooms, and issue them their room keys. They also give out mail and messages, answer questions about hotel services, keep guest records, prepare bills, and collect payments. They may sell items such as candy or newspapers and deposit items for guests in the hotel safe.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	238.362-010	HOTEL CLERK	3 3 3 THREE TO SIX MONTHS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	238.362-010	HOTEL CLERK	3 3 3 THREE TO SIX MONTHS

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OCCUPATION: 4644

RESERVATION AGENTS AND TRANSPORTATION TICKET CLERKS

These CLERKS help people who travel. Some plan travel routes and schedules and obtain reservations for people on planes, trains, buses, or boats. They also do such things as plan auto trips, prepare travel information, reserve hotel rooms, and issue travel tickets. Others help passengers safely board the correct train or plane.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
07.0707 RECEPTIONIST AND COMMUNICATION SYSTEMS O	238.167-010 TRAVEL CLERK	4 3 4	TWO TO FOUR YEARS
	238.167-014 TRAVEL COUNSELOR, AUTOMOBILE CLUB	4 4 3	SIX TO 12 MONTHS
	238.367-026 TICKET AGENT	4 3 4	SIX TO 12 MONTHS
08.1102 TRANSPORTATION MARKETING	238.367-010 GATE AGENT	3 2 3	THREE TO SIX MONTHS
08.1104 TOURISM	238.167-014 TRAVEL COUNSELOR, AUTOMOBILE CLUB	4 4 3	SIX TO 12 MONTHS
	238.367-030 TRAVEL CLERK	3 3 3	THREE TO SIX MONTHS
08.1105 TRAVEL SERVICES MARKETING	238.167-010 TRAVEL CLERK	4 3 4	TWO TO FOUR YEARS
	238.362-014 RESERVATION CLERK	3 3 3	SIX TO 12 MONTHS
	238.367-014 RESERVATION CLERK	3 2 3	30 TO 90 DAYS
	238.367-018 RESERVATIONS AGENT	4 3 3	THREE TO SIX MONTHS
	238.367-026 TICKET AGENT	4 3 4	SIX TO 12 MONTHS
	248.382-010 TICKETING CLERK	3 3 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4645

RECEPTIONISTS

RECEPTIONISTS are often the first person callers see when they visit a place or organization. They greet customers or visitors, determine their needs, and refer them to people who can help them. Their daily duties depend upon where they work. Those in medical offices, may obtain information from patients. In beauty shops, they set up appointments. In large businesses, they give id cards to callers and arrange for escorts. Many RECEPTIONISTS also do other things, such as type, answer the phone, file and sort mail.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	205.367-038	REGISTRAR	3 2 3	SIX TO 12 MONTHS
		237.367-010	APPOINTMENT CLERK	3 2 3	30 TO 90 DAYS
		237.367-022	INFORMATION CLERK	4 2 3	THREE TO SIX MONTHS
		237.367-038	RECEPTIONIST	3 2 3	SIX TO 12 MONTHS
31.0201	OUTDOOR RECREATION	249.367-082	PARK AIDE	4 3 4	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4649

INFORMATION CLERK, N.E.C.

These CLERKS provide information and assistance to customers. They answer people's questions about such matters as insurance, stock prices, travel services or mortgage requirements. They may answer questions by phone or letter or in person. Some assist people in completing transactions such as overseas phone calls, loan applications, or room reservations. Some receive and answer complaints of callers. They also may compile information, write letters, fill out forms, and perform other clerical duties.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.367-022	DISBURSEMENT CLERK	3 3 3	THREE TO SIX MONTHS
		219.362-038	MORTGAGE-CLOSING CLERK	4 3 4	SIX TO 12 MONTHS
		238.367-034	SCHEDULER	3 3 3	30 TO 90 DAYS
07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERATION	203.362-014	IN-FILE OPERATOR	3 2 3	THREE TO SIX MONTHS
07.0703	CORRESPONDENCE CLERK	249.262-010	POLICYHOLDER-INFORMATION CLERK	4 2 4	ONE TO TWO YEARS
07.0705	GENERAL OFFICE CLERK	237.367-026	LAND-LEASING EXAMINER	4 3 4	TWO TO FOUR YEARS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	237.267-010	INFORMATION CLERK, AUTOMOBILE CLUB	4 3 4	SIX TO 12 MONTHS
		237.367-018	INFORMATION CLERK	4 2 3	UP TO 30 DAYS
		237.367-034	PAY-STATION ATTENDANT	3 2 3	SIX TO 12 MONTHS
		237.367-042	REFERRAL-AND-INFORMATION AIDE	3 2 3	30 TO 90 DAYS
		237.367-046	TELEPHONE-QUOTATION CLERK	3 2 3	UP TO 30 DAYS
		237.367-050	TOURIST-INFORMATION ASSISTANT	4 3 4	ONE TO TWO YEARS
		238.367-022	SPACE SCHEDULER	4 2 3	THREE TO SIX MONTHS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	238.367-022	SPACE SCHEDULER	4 2 3	THREE TO SIX MONTHS
08.1104	TOURISM	237.267-010	INFORMATION CLERK, AUTOMOBILE CLUB	4 3 4	SIX TO 12 MONTHS
		237.367-050	TOURIST-INFORMATION ASSISTANT	4 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4660

CORRESPONDENCE CLERKS AND ORDER CLERKS

Workers in these occupations help customers place ads, order products, or settle problems. They may help customers write ads for newspapers or magazines. Or they may process requests for products. They inform customers of availability, costs, and shipping dates. Some clerks handle letters and calls from customers who want information, have complaints, or request special orders. Clerks fill out forms, take payments, write receipts and keep records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4662

CLASSIFIED AD CLERKS

These CLERKS take orders for ads and help prepare the ads to be printed in a newspaper, magazine, or some other publication. Some talk with customers to find out what words they want in ads and when they want the ads to appear in print. They use a rate schedule to figure out the cost of the ads. They also fill out order forms, take payments, write receipts, and keep order records. Others help space and arrange ads on pages or check current ads to see how many more days they should be run.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	247.367-010	CLASSIFIED-AD CLERK 1	3 2 3	SIX TO 12 MONTHS
09.0201	ADVERTISING	247.367-010	CLASSIFIED-AD CLERK 1	3 2 3	SIX TO 12 MONTHS
		247.387-018	ADVERTISING-SPACE CLERK	3 3 3	SIX TO 12 MONTHS
		247.387-022	CLASSIFIED-AD CLERK 2	3 3 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4663

CORRESPONDENCE CLERKS

CORRESPONDENCE CLERKS answer letters concerning such matters as requests for goods, special orders, damage claims, credit information, incorrect billings, and poor service. They read incoming mail and gather information needed to make replies. They may type or dictate a reply, prepare a form letter, or send the customer's letter to the appropriate person or department for a reply. Some also keep files of letters sent, received, or requiring further action.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0703	CORRESPONDENCE CLERK	209.262-010	CORRESPONDENCE CLERK	4 2 4	ONE TO TWO YEARS
		209.367-018	CORRESPONDENCE-REVIEW CLERK	3 1 3	SIX TO 12 MONTHS
		221.367-062	SALES CORRESPONDENT	4 2 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4664

ORDER CLERKS

ORDER CLERKS process requests from customers or company employees for products, services, or materials. They may receive orders by mail, phone, order form, or directly from people. In some cases, they phone or write to people to inform them of prices, shipping dates, delays, or other information about their orders. They may send orders to departments to be filled and follow up on orders to make sure of prompt delivery. Some help prepare written contracts for goods or handle service orders and complaints.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.387-018	CONTACT CLERK	3 2 3	THREE TO SIX MONTHS
		239.367-010	CUSTOMER-SERVICE REPRESENTATIVE	3 2 3	SIX TO 12 MONTHS
		245.367-026	ORDER-CONTROL CLERK, BLOOD BANK	3 2 3	30 TO 90 DAYS
		249.367-054	ORDER CLERK	3 3 3	THREE TO SIX MONTHS
		295.367-018	FILM-RENTAL CLERK	4 3 4	SIX TO 12 MONTHS
		659.452-010	ELECTROTYPE SERVICER	3 2 3	30 TO 90 DAYS
		959.167-010	DISPATCHER, SERVICE	4 3 3	THREE TO SIX MONTHS
		976.567-010	FILM-REPLACEMENT ORDERER	3 2 3	30 TO 90 DAYS
06.0705	TRANSPORTATION MANAGEMENT	237.367-030	MANAGER, TRAFFIC 2	3 2 2	ONE TO TWO YEARS
07.0605	MEDICAL SECRETARIAL	245.367-022	CREDIT CLERK, BLOOD BANK	3 2 3	30 TO 90 DAYS
		245.367-026	ORDER-CONTROL CLERK, BLOOD BANK	3 2 3	30 TO 90 DAYS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	239.367-022	RECEIVER-DISPATCHER	3 2 3	THREE TO SIX MONTHS
		249.367-042	GAS-DISTRIBUTION-AND-EMERGENCY CLERK	4 3 3	ONE TO TWO YEARS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	249.367-070	ROUTING CLERK	3 2 3	30 TO 90 DAYS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	239.367-010	CUSTOMER-SERVICE REPRESENTATIVE	3 2 3	SIX TO 12 MONTHS
		295.367-018	FILM-RENTAL CLERK	4 3 4	SIX TO 12 MONTHS
08.0707	WHOLESALE	249.367-054	ORDER CLERK	3 3 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4690

RECORD CLERKS

These workers compile information, file it properly, and make it available to others. They may gather or verify information for employee records, noting work history or skills. They may work as file clerks, classifying and sorting documents and materials, then retrieving them for other workers to use. Others work in libraries and shelve books, check books in and out for users, or process new materials. Some workers process balloting information or financial records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4692

PERSONNEL CLERKS, EXCEPT PAYROLL AND TIMEKEEPING

PERSONNEL CLERKS gather and file information on the training, skills, job duties, work history, and traits of a firm's employees. They also may compile and type reports from worker records. Many have other duties as well. They may prepare and mail forms or letters, act as receptionist, or check job applicants' references.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0503	PERSONNEL ASSISTING	205.362-010	CIVIL-SERVICE CLERK	3 2 3	30 TO 90 DAYS
		205.362-014	EMPLOYMENT CLERK	4 2 4	SIX TO 12 MONTHS
		205.362-022	IDENTIFICATION CLERK	3 1 3	30 TO 90 DAYS
		205.367-062	REFERRAL CLERK, TEMPORARY-HELP AGEN	3 3 3	30 TO 90 DAYS
		205.567-010	INSURANCE CLERK 2	3 2 3	THREE TO SIX MONTHS
		209.362-026	PERSONNEL CLERK	4 2 4	THREE TO SIX MONTHS
		241.267-010	AGENT-CONTRACT CLERK	5 1 4	SIX TO 12 MONTHS
08.1001	INSURANCE MARKETING	241.267-010	AGENT-CONTRACT CLERK	5 1 4	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 4694

LIBRARY CLERKS

LIBRARY CLERKS do many of the routine tasks involved in running a library. They help librarians order and organize materials and make it easier for patrons to find and check out materials. They check books in and out, sort and shelve library materials, repair damaged books, and answer routine questions. They may keep files of special materials. They may help in the buying and processing library materials or drive bookmobiles to take library materials to patrons in different areas of a town.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.387-026	LIBRARY CLERK, TALKING BOOKS	3 1 3	30 TO 90 DAYS
		249.363-010	BOOKMOBILE DRIVER	3 2 2	30 TO 90 DAYS
		249.365-010	REGISTRATION CLERK	3 1 3	SIX TO 12 MONTHS
		249.687-014	PAGE	2 1 2	UP TO 30 DAYS
07.0705	GENERAL OFFICE CLERK	249.367-046	LIBRARY ASSISTANT	3 2 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4696

FILE CLERKS

FILE CLERKS keep office records accurate, up-to-date, and properly placed. They classify, store, update, and find office materials on request. They examine new materials and store them for future use according to a system. When these records are requested, they locate them for the borrower. They also keep records of materials removed from the files and make sure they are returned. In small offices, they often do other things, such as type, sort mail, or run office machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERATION	206.387-030	TAPE LIBRARIAN	4 2 4 THREE TO SIX MONTHS
07.0705	GENERAL OFFICE CLERK	206.362-010	FILE CLERK 1	3 1 2 30 TO 90 DAYS
		206.367-014	FILE CLERK 2	3 2 3 SIX TO 12 MONTHS
		206.387-010	CLASSIFICATION CLERK	3 2 3 SIX TO 12 MONTHS
		206.387-014	FINGERPRINT CLERK 2	4 2 3 THREE TO SIX MONTHS
		206.387-018	LIBRARIAN, MORGUE	3 1 3 THREE TO SIX MONTHS
		206.387-022	RECORD CLERK	3 2 2 30 TO 90 DAYS
		206.387-026	RECORDS CUSTODIAN	3 2 3 SIX TO 12 MONTHS
		206.387-030	TAPE LIBRARIAN	4 2 4 THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4699

RECORDS CLERKS, N.E.C.

These people compile, record, file, or check information needed for a variety of purposes. Some workers record information on insurance policies. Others check school records to see whether students are eligible to graduate, or some may count ballots and prepare official records. Some keep records of deliveries to customers, compile financial records, weather charts, or train schedules.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	205.367-026	CREEL CLERK	3	3	3	UP TO 30 DAYS
		209.362-010	CIRCULATION CLERK	3	2	3	30 TO 90 DAYS
		216.367-014	TRUST-VAULT CLERK	4	3	3	ONE TO TWO YEARS
		216.382-042	MARGIN CLERK 1	3	3	3	SIX TO 12 MONTHS
		216.382-046	MARGIN CLERK 2	4	3	3	SIX TO 12 MONTHS
		219.362-054	SECURITIES CLERK	4	4	3	SIX TO 12 MONTHS
		219.387-010	ASSIGNMENT CLERK	3	3	3	THREE TO SIX MONTHS
		219.482-010	BROKERAGE CLERK 1	4	3	3	SIX TO 12 MONTHS
		247.382-010	MEDIA CLERK	4	3	3	SIX TO 12 MONTHS
01.0503	AGRICULTURAL SUPPLIES MARKETING	294.667-010	AUCTION ASSISTANT	2	1	2	UP TO 30 DAYS
07.0102	ACCOUNTING AND COMPUTING	219.362-062	TRUST-SECURITIES CLERK	3	3	3	THREE TO SIX MONTHS
07.0103	BOOKKEEPING	216.382-074	TRUST-SAVINGS-ACCOUNT CLERK	3	3	3	30 TO 90 DAYS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	219.362-058	STATEMENT CLERK	3	2	3	THREE TO SIX MONTHS
		219.382-010	CHECK WRITER	4	4	2	30 TO 90 DAYS
07.0203	INSURANCE CLERK	209.362-014	CONTROL CLERK, AUDITING	3	3	3	30 TO 90 DAYS
		209.587-030	MAP CLERK	3	2	2	30 TO 90 DAYS
		209.687-018	REVIEWER	3	1	3	THREE TO SIX MONTHS
		219.362-034	INSURANCE CLERK 1	4	3	4	SIX TO 12 MONTHS
		219.362-042	POLICY-CHANGE CLERK	4	3	3	SIX TO 12 MONTHS
		219.367-014	INSURANCE CLERK 2	3	3	3	THREE TO SIX MONTHS
		219.367-038	UNDERWRITING CLERK	3	3	3	THREE TO SIX MONTHS
		219.387-014	INSURANCE CLERK 1	4	3	3	THREE TO SIX MONTHS
		219.482-014	INSURANCE CHECKER	3	3	3	SIX TO 12 MONTHS
		219.482-018	REINSURANCE CLERK	4	3	3	SIX TO 12 MONTHS
07.0205	TELLER	219.362-058	STATEMENT CLERK	3	2	3	THREE TO SIX MONTHS
07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERATION	209.387-010	CODING CLERK	3	1	3	30 TO 90 DAYS
		209.387-022	DATA-EXAMINATION CLERK	4	2	3	30 TO 90 DAYS
07.0305	BUSINESS DATA PROGRAMMING	219.367-026	PROGRAMER, DETAIL	4	3	4	SIX TO 12 MONTHS

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OCCUPATION: 4699 RECORD CLERKS, NEC

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0503	PERSONNEL ASSISTING	205.367-010	ADMISSIONS EVALUATOR	4 2 4	ONE TO TWO YEARS
07.0703	CORRESPONDENCE CLERK	209.387-034	SUGGESTION CLERK	3 1 3	THREE TO SIX MONTHS
07.0705	GENERAL OFFICE CLERK	203.382-014	CANCELLATION CLERK	3 3 3	SIX TO 12 MONTHS
		206.587-010	BRAND RECORDER	3 1 2	THREE TO SIX MONTHS
		209.362-010	CIRCULATION CLERK	3 2 3	30 TO 90 DAYS
		209.387-034	SUGGESTION CLERK	3 1 3	THREE TO SIX MONTHS
		209.587-014	CREDIT-CARD CLERK	3 1 3	30 TO 90 DAYS
		209.587-022	HISTORY-CARD CLERK	3 2 3	THREE TO SIX MONTHS
		209.587-042	RETURN-TO-FACTORY CLERK	3 2 2	30 TO 90 DAYS
		209.637-022	SORTER	2 1 2	30 TO 90 DAYS
		219.362-014	ATTENDANCE CLERK	4 3 4	ONE TO TWO YEARS
		219.362-050	REVIVAL CLERK	3 2 3	THREE TO SIX MONTHS
		219.362-058	STATEMENT CLERK	3 2 3	THREE TO SIX MONTHS
		219.462-014	TRAIN CLERK	3 2 2	30 TO 90 DAYS
		222.367-054	PROPERTY CLERK	3 2 3	SIX TO 12 MONTHS
		237.367-014	CALL-OUT OPERATOR	3 2 3	UP TO 30 DAYS
		248.362-014	WEATHER CLERK	3 2 3	30 TO 90 DAYS
		249.387-014	INTELLIGENCE CLERK	3 3 3	ONE TO TWO YEARS
		249.587-010	BOARD ATTENDANT	3 2 2	UP TO 30 DAYS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	205.367-030	ELECTION CLERK	3 2 2	UP TO 30 DAYS
		235.387-010	RADIO-MESSAGE ROUTER	3 1 3	SIX TO 12 MONTHS
		237.367-014	CALL-OUT OPERATOR	3 2 3	UP TO 30 DAYS
08.0401	FINANCIAL SERVICES MARKETING	219.362-018	BROKERAGE CLERK 2	3 3 3	THREE TO SIX MONTHS
08.0701	AUCTIONEERING	294.667-010	AUCTION ASSISTANT	2 1 2	UP TO 30 DAYS
08.0705	RETAILING	209.587-042	RETURN-TO-FACTORY CLERK	3 2 2	30 TO 90 DAYS
08.0706	SALES	294.667-010	AUCTION ASSISTANT	2 1 2	UP TO 30 DAYS
09.0201	ADVERTISING	247.382-010	MEDIA CLERK	4 3 3	SIX TO 12 MONTHS
11.0201	COMPUTER PROGRAMMING	219.367-026	PROGRAMER, DETAIL	4 3 4	SIX TO 12 MONTHS
11.0301	DATA PROCESSING	219.367-026	PROGRAMER, DETAIL	4 3 4	SIX TO 12 MONTHS
11.0601	MICROCOMPUTER APPLICATIONS	219.367-026	PROGRAMER, DETAIL	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4699 RECORD CLERKS, NEC

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
20.0404	DIETETIC AIDE/ASSISTING	245.587-010	DIET CLERK	3 3 3 30 TO 90 DAYS
22.0103	LEGAL ASSISTING	216.362-030	PROBATE CLERK	4 4 4 SIX TO 12 MONTHS

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OCCUPATION: 4710

FINANCIAL RECORD PROCESSING OCCUPATIONS

These workers operate machines that compute and record financial information for a company. They may operate machines that total bills, print invoices, or check inventories. They may run bookkeeping machines that account for monies paid into or out of a firm. Others operate payroll machines and compute wages for workers. They may calculate weights and shipping rates, transfer securities, or compile financial records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4712

BOOKKEEPERS AND ACCOUNTING AND AUDITING CLERKS

These CLERKS compute and record numerical data (information) to keep sets of financial records complete, current, and accurate. They keep business and account records and may compile reports that show all money received and paid out by a firm. They work with business records, such as invoices, ledgers, vouchers, and bank balances. They use adding machines, calculators, and other business machines to total lists of figures and to compute interest, payroll, or other figures

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	209.687-010	CHECKER 2	3	2	2	THREE TO SIX MONTHS
		210.382-034	COMMODITY-LOAN CLERK	3	3	3	THREE TO SIX MONTHS
		210.382-038	CREDIT-CARD CLERK	3	3	2	30 TO 90 DAYS
		216.362-014	COLLECTION CLERK	4	4	4	SIX TO 12 MONTHS
		216.382-026	CLEARING-HOUSE CLERK	4	3	3	SIX TO 12 MONTHS
		216.382-030	COLLATERAL-AND-SAFEKEEPING CLERK	4	4	3	SIX TO 12 MONTHS
		216.382-038	INTEREST CLERK	4	3	2	SIX TO 12 MONTHS
		219.387-018	LETTER-OF-CREDIT CLERK	4	3	3	SIX TO 12 MONTHS
		249.367-038	FORECLOSURE CLERK, MOTION-PICTURE L	3	2	3	THREE TO SIX MONTHS
07.0102	ACCOUNTING AND COMPUTING	210.362-010	DISTRIBUTION-ACCOUNTING CLERK	3	3	2	SIX TO 12 MONTHS
		210.367-010	ACCOUNT- INFORMATION CLERK	4	3	3	ONE TO TWO YEARS
		210.367-014	FOREIGN-EXCHANGE-POSITION CLERK	4	4	3	SIX TO 12 MONTHS
		210.382-010	AUDIT CLERK	4	4	3	SIX TO 12 MONTHS
		210.382-054	NIGHT AUDITOR	4	4	3	SIX TO 12 MONTHS
		210.382-058	RECONCILEMENT CLERK	3	3	2	SIX TO 12 MONTHS
		210.382-062	SECURITIES CLERK	4	4	3	ONE TO TWO YEARS
		216.362-014	COLLECTION CLERK	4	4	4	SIX TO 12 MONTHS
		216.362-034	RESERVES CLERK	4	3	3	SIX TO 12 MONTHS
		216.382-010	ACCOUNTING CLERK, DATA PROCESSING	3	3	2	SIX TO 12 MONTHS
		216.482-010	ACCOUNTING CLERK	4	3	3	THREE TO SIX MONTHS
		216.587-010	BOOKING CLERK	2	1	1	30 TO 90 DAYS
		219.362-070	TAX PREPARER	4	4	3	THREE TO SIX MONTHS
07.0103	BOOKKEEPING	210.382-014	BOOKKEEPER 1	4	4	3	ONE TO TWO YEARS
		210.382-018	BOOKKEEPER 2	4	4	3	THREE TO SIX MONTHS
		210.382-030	CLASSIFICATION-CONTROL CLERK	4	3	3	SIX TO 12 MONTHS
		210.382-038	CREDIT-CARD CLERK	3	3	2	30 TO 90 DAYS
		210.382-042	FIXED-CAPITAL CLERK	4	3	3	SIX TO 12 MONTHS
		210.382-046	GENERAL-LEDGER BOOKKEEPER	4	4	3	SIX TO 12 MONTHS
		210.382-050	MORTGAGE-LOAN-COMPUTATION CLERK	3	3	2	30 TO 90 DAYS
		216.362-010	BOND CLERK	4	4	4	SIX TO 12 MONTHS
		216.362-026	MORTGAGE-ACCOUNTING CLERK	4	3	3	30 TO 90 DAYS
		216.382-018	BALANCE CLERK	3	2	2	THREE TO SIX MONTHS

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OCCUPATION: 4712 BOOKKEEPING AND ACCOUNTING AND AUDITING CLERKS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		216.382-058	RETURNED-ITEM CLERK	3 3 3	THREE TO SIX MONTHS
		216.382-070	STOCK-TRANSFER CLERK	4 4 4	SIX TO 12 MONTHS
		216.482-026	DIVIDEND-DEPOSIT-VOUCHER CLERK	3 2 2	30 TO 90 DAYS
		216.587-014	POSTING CLERK	3 2 2	30 TO 90 DAYS
		219.587-010	PARIMUTUEL-TICKET CHECKER	3 3 3	UP TO 30 DAYS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	216.367-010	CHECK-PROCESSING CLERK 2	4 3 3	30 TO 90 DAYS
		219.362-066	VOUCHER CLERK	4 4 3	THREE TO SIX MONTHS
07.0205	TELLER	216.382-014	ADVICE CLERK	4 4 4	SIX TO 12 MONTHS
		216.387-010	CHECK-PROCESSING CLERK 1	3 3 3	30 TO 90 DAYS
07.0705	GENERAL OFFICE CLERK	209.687-010	CHECKER 2	3 2 2	THREE TO SIX MONTHS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	248.387-014	TONNAGE-COMPIIATION CLERK	4 3 3	SIX TO 12 MONTHS
08.0401	FINANCIAL SERVICES MARKETING	219.387-018	LETTER-OF-CREDIT CLERK	4 3 3	SIX TO 12 MONTHS

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OCCUPATION: 4713

PAYROLL AND TIMEKEEPING CLERKS

PAYROLL AND TIMEKEEPING CLERKS keep records of the times people work and the wages they earn. They add up work hours from time-sheets and other records and figure out the wages earned by workers. They may keep daily records of the times workers arrive at and depart from work. They use calculators and posting machines to compute and record hours worked, earnings, deductions, net wages, and other information. They enter this and other information onto record cards, check stubs, and payroll sheets.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
07.0102	ACCOUNTING AND COMPUTING	215.482-010	PAYROLL CLERK	3	3	2 THREE TO SIX MONTHS
07.0103	BOOKKEEPING	215.362-018	FLIGHT-CREW-TIME CLERK	4	3	4 SIX TO 12 MONTHS
		215.367-022	TIMEKEEPER	3	2	2 30 TO 90 DAYS
		215.382-010	PAYROLL CLERK, DATA PROCESSING	4	4	3 THREE TO SIX MONTHS

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OCCUPATION: 4715

BILLING CLERKS

BILLING CLERKS prepare invoices or bills for goods and services provided to customers by a business or firm. They look at purchase and shipping records to see what goods or services were delivered and then use price lists or rate tables to find the costs of these items. They total the charges and prepare detailed bills to be sent out to customers. They also may prepare reports on accounts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
06.0201	ACCOUNTING	*214.382-010	ACCOUNT ANALYST	4	3	3 SIX TO 12 MONTHS
07.0103	BOOKKEEPING	214.362-026	INVOICE-CONTROL CLERK	4	3	3 THREE TO SIX MONTHS
		214.382-018	C.O.D. CLERK	3	2	2 30 TO 90 DAYS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	214.362-014	DOCUMENTATION-BILLING CLERK	3	3	3 THREE TO SIX MONTHS
		214.362-042	BILLING CLERK	4	3	3 THREE TO SIX MONTHS
		214.382-010	ACCOUNT ANALYST	4	3	3 SIX TO 12 MONTHS
		214.382-014	BILLING TYPIST	3	3	2 THREE TO SIX MONTHS
		214.387-010	BILLING-CONTROL CLERK	3	3	3 SIX TO 12 MONTHS
		214.482-014	DEPOSIT-REFUND CLERK	3	3	3 THREE TO SIX MONTHS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	214.362-010	DEMURRAGE CLERK	3	3	3 SIX TO 12 MONTHS

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OCCUPATION: 4716

COST AND RATE CLERKS

These CLERKS compute costs and calculate rates for goods, services, and the shipment of goods. They study vouchers, rate tables, billing statements, and other records to compile information needed to compute costs or rates. They use adding machines and calculators to total lists of figures and compute rates and charges. They may prepare charts, graphs, or reports that describe their findings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	214.587-010	TELEGRAPH-SERVICE RATER	2 2 2 UP TO 30 DAYS
		241.267-026	DEPOSIT CLERK	4 3 4 ONE TO TWO YEARS
06.1401	MARKETING MANAGEMENT	184.387-010	WHARFINGER	3 3 2 SIX TO 12 MONTHS
07.0102	ACCOUNTING AND COMPUTING	214.387-014	RATE REVIEWER	4 3 4 ONE TO TWO YEARS
		216.382-034	COST CLERK	4 4 3 SIX TO 12 MONTHS
		249.367-034	EVALUATOR	4 2 2 THREE TO SIX MONTHS
07.0103	BOOKKEEPING	214.482-018	MEDICAL-VOUCHER CLERK	3 2 3 30 TO 90 DAYS
		216.382-054	RECEIPT-AND-REPORT CLERK	4 3 3 SIX TO 12 MONTHS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	214.467-010	FOREIGN CLERK	4 4 3 SIX TO 12 MONTHS
07.0203	INSURANCE CLERK	214.482-018	MEDICAL-VOUCHER CLERK	3 2 3 30 TO 90 DAYS
		214.482-022	RATER	3 3 3 THREE TO SIX MONTHS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	214.267-010	RATE ANALYST, FREIGHT	4 4 4 ONE TO TWO YEARS
		214.362-038	TRAFFIC-RATE CLERK	4 3 3 SIX TO 12 MONTHS
		214.382-026	REVISING CLERK	3 3 3 THREE TO SIX MONTHS
		214.387-013	SERVICES CLERK	4 3 3 SIX TO 12 MONTHS
08.0703	INTERNATIONAL MARKETING	214.467-010	FOREIGN CLERK	4 4 3 SIX TO 12 MONTHS
08.1102	TRANSPORTATION MARKETING	184.387-010	WHARFINGER	3 3 2 SIX TO 12 MONTHS
08.1105	TRAVEL SERVICES MARKETING	214.362-030	RATE CLERK, PASSENGER	4 3 3 THREE TO SIX MONTHS

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OCCUPATION: 4718

BILLING, POSTING, AND CALCULATING MACHINE OPERATORS

These people operate machines used by firms to record information, determine bills and inventories, and do math calculations. Some workers prepare customer statements. The machine then computes the balances and required payments. Others record a firm's money matters on a bookkeeping machine that calculates balances and produces summary reports. In other jobs, workers use adding machines or calculators to compute payrolls and invoices and do other statistical work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.0704	RESTAURANT MANAGEMENT	216.362-022	FOOD-AND-BEVERAGE CONTROLLER	4 3 2	SIX TO 12 MONTHS
07.0103	BOOKKEEPING	214.362-018	FEE CLERK	3 3 3	30 TO 90 DAYS
		216.362-022	FOOD-AND-BEVERAGE CONTROLLER	4 3 2	SIX TO 12 MONTHS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	210.382-022	BOOKKEEPING-MACHINE OPERATOR 1	4 4 3	SIX TO 12 MONTHS
		210.382-026	BOOKKEEPING-MACHINE OPERATOR 2	4 4 3	SIX TO 12 MONTHS
		214.482-010	BILLING-MACHINE OPERATOR	3 3 3	THREE TO SIX MONTHS
		216.482-014	ADDING-MACHINE OPERATOR	2 2 2	30 TO 90 DAYS
		216.482-018	AUDIT-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		216.482-022	CALCULATING-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		216.585-010	GAS-VOLUME COMPUTER	3 2 3	30 TO 90 DAYS
		217.382-010	PROOF-MACHINE OPERATOR	3 3 2	THREE TO SIX MONTHS
07.0203	INSURANCE CLERK	216.382-050	POLICY-VALUE CALCULATOR	3 2 2	SIX TO 12 MONTHS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	214.382-022	INTERLINE CLERK	4 3 3	SIX TO 12 MONTHS
		214.462-010	ACCOUNTS-ADJUSTABLE CLERK	3 3 3	30 TO 90 DAYS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	211.482-014	FOOD CHECKER	3 2 1	30 TO 90 DAYS
		211.482-018	FOOD-AND-BEVERAGE CHECKER	3 2 2	30 TO 90 DAYS
		211.582-010	FOOD TABULATOR, CAFETERIA	3 2 1	30 TO 90 DAYS
		216.362-022	FOOD-AND-BEVERAGE CONTROLLER	4 3 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4720

DUPLICATING, MAIL, AND OTHER OFFICE MACHINE OPERATORS

These workers run machines that copy documents, calculate financial data, or perform other tasks in a business office. They may run machines that collate information, process checks, calculate bills and print statements, count money, or emboss metal addressing plates. Workers must set up machines and adjust the controls. They may load the machines or feed such materials as paper, glue, or coins into machines during operation.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 4722

DUPLICATING MACHINE OPERATORS

These people operate or tend equipment that can copy documents such as letters, bills, drawings, and invoices. The machines they use include mimeograph, stencil, and copying machines. They keep the machines loaded with paper and see that they are set up for the proper numbers and sizes of copies to be made. They also may collate the copied pages of lengthy documents, by hand or using machine.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
07.0704	NO CIP ASSIGNED	207.682-010	DUPLICATING-MACHINE OPERATOR 1	3	2 1	THREE TO SIX MONTHS
		207.682-014	DUPLICATING-MACHINE OPERATOR 2	2	1 1	THREE TO SIX MONTHS
		207.682-018	OFFSET-DUPLICATING-MACHINE OPERATOR	3	2 1	SIX TO 12 MONTHS
		207.685-010	BRAILLE-DUPLICATING-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS
		207.685-014	PHOTOCOPYING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		207.685-018	PHOTOGRAPHIC-MACHINE OPERATOR	3	2 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4723

MAIL PREPARING AND HANDLING MACHINE OPERATORS

These workers operate and tend machines used to open incoming mail and to prepare bills and letters for mailing. Some of the machines fold and insert enclosures. Others address, seal, and stamp envelopes. The OPERATORS set up, load, and control these machines. They also may remove processed items from the machines and stack them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	208.462-010	MAILING-MACHINE OPERATOR	4 2 3	SIX TO 12 MONTHS
		208.582-010	ADDRESSING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		208.685-014	FOLDING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		208.685-018	INSERTING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		208.685-026	SEALING-AND-CANCELING-MACHINE OPERA	2 2 2	UP TO 30 DAYS
		208.685-034	WING-MAILER-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
07.0704	NO CIP ASSIGNED	208.685-014	FOLDING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS

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OCCUPATION: 4729

OFFICE MACHINE OPERATORS, N.E.C.

These people operate special office machines, such as those used to prepare addressing plates, list and total bank items, assemble pages in order, or sort and count money. Some tend machines used to mount microfilm onto cards, or to sort and record checks. They may operate one or more machines. Many of the machines they use must be set up for operation. To do this, the operator may adjust settings, margins, or other controls. They also may load or feed coins, checks, glue, paper or other materials into the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	208.582-014	EMBOSSING-MACHINE OPERATOR 1	3 1 2	THREE TO SIX MONTHS
		208.682-010	EMBOSSING-MACHINE OPERATOR 2	3 1 2	THREE TO SIX MONTHS
		208.685-022	MICROFILM MOUNTER	2 1 1	UP TO 30 DAYS
		217.382-014	TRANSIT CLERK	4 3 2	SIX TO 12 MONTHS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	217.485-010	CURRENCY SORTER	3 3 2	THREE TO SIX MONTHS
		217.585-010	COIN-MACHINE OPERATOR	3 2 1	30 TO 90 DAYS
		217.686-010	COIN WRAPPER	2 1 1	UP TO 30 DAYS
07.0304	BUSINESS DATA PERIPHERAL EQUIPMENT OPERA	208.685-010	COLLATOR OPERATOR	2 1 1	UP TO 30 DAYS
		217.685-010	BURSTING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
07.0704	NO CIP ASSIGNED	208.582-014	EMBOSSING-MACHINE OPERATOR 1	3 1 2	THREE TO SIX MONTHS
		208.682-010	EMBOSSING-MACHINE OPERATOR 2	3 1 2	THREE TO SIX MONTHS
		208.685-010	COLLATOR OPERATOR	2 1 1	UP TO 30 DAYS

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OCCUPATION: 4730

COMMUNICATIONS EQUIPMENT OPERATORS

These workers may send or receive message by telegraph, telephone, radio, or teletype. They may receive messages from alarm systems or transmit wirephotos. They may work as switchboard operators, helping customers and clients make calls or arranging conferences. Others may send or receive coded messages, transfer large sums of money by wire, or direct the transfer of materials, such as petroleum, to distributors.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4732

TELEPHONE OPERATORS

These people operate telephone switchboards to connect callers. They listen with headsets and use pushbuttons, dials, or special plugs to connect phone lines. Most work in telephone central offices or large businesses. A few work in police stations, military bases, telegraph offices, airports, or operator training centers. Those who work in telephone offices help callers reverse charges, find phone numbers, arrange conference calls, and contact help in an emergency. They also record billing information for calls made.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	235.662-010	COMMAND AND CONTROL SPECIALIST	3 3 3	SIX TO 12 MONTHS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	235.462-010	CENTRAL-OFFICE OPERATOR	3 1 3	30 TO 90 DAYS
		235.562-010	CLERK, ROUTE	3 2 3	THREE TO SIX MONTHS
		235.562-014	SWITCHBOARD OPERATOR, POLICE DISTRI	3 1 2	THREE TO SIX MONTHS
		235.662-014	COMMUNICATION-CENTER OPERATOR	3 2 3	SIX TO 12 MONTHS
		235.662-018	DIRECTORY-ASSISTANCE OPERATOR	3 2 3	30 TO 90 DAYS
		235.662-022	TELEPHONE OPERATOR	3 2 3	30 TO 90 DAYS
		239.362-010	TELEPHONE CLERK, TELEGRAPH OFFICE	3 2 3	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4733

TELEGRAPHERS

People in these jobs operate telegraph equipment to send and receive signals or messages for customers or businesses. Some use special typewriters to transfer bank funds and securities. Others use telegraph keys and teletype machines to send and receive train orders and messages. They sometimes send and receive messages in code. Many of these workers perform clerical or other office duties in addition to sending and receiving messages.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	203.562-010	WIRES-TRANSFER CLERK	3	3	3 THREE TO SIX MONTHS
		203.582-050	TELEGRAPHIC-TYPEWRITER OPERATOR	3	2	3 THREE TO SIX MONTHS
		236.562-010	TELEGRAPHER	4	3	3 THREE TO SIX MONTHS
		236.562-014	TELEGRAPHER AGENT	3	2	3 SIX TO 12 MONTHS

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OCCUPATION: 4739

COMMUNICATIONS EQUIPMENT OPERATORS, N.E.C.

These people send and receive messages. They work in diverse settings and use different kinds of equipment. They may operate a switchboard, radio, alarm, or wirephoto machine. Some relay messages to direct the flow of oil to and from an oil plant. Some provide telephone answering services for clients. Some listen in on the business calls of phone company workers to make sure that correct and courteous service is being given. Some wire photos to newspapers. Some operate alarm systems to send and receive messages about fires or intruders.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	239.382-010	WIRE-PHOTO OPERATOR, NEWS	4 2 3	SIX TO 12 MONTHS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	221.362-014	DISPATCHER, RELAY	3 3 3	SIX TO 12 MONTHS
		235.662-026	TELEPHONE-ANSWERING-SERVICE OPERATO	3 2 3	30 TO 90 DAYS
		239.367-026	SERVICE OBSERVER	4 2 4	THREE TO SIX MONTHS
		379.162-010	ALARM OPERATOR	4 3 4	ONE TO TWO YEARS
		379.362-014	PROTECTIVE-SIGNAL OPERATOR	3 2 3	SIX TO 12 MONTHS

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OCCUPATION: 4740

MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS

Workers in these occupations handle mail and other messages. They may work in post offices selling stamps, sorting mail, or answering customer questions. Some deliver mail to private homes and businesses. They sort mail and carry new mail back to the post office. In private industry and government agencies, some workers sort mail that has been delivered. They open it, stamp it, and route it to the appropriate place. Some workers deliver mail, packages, telegrams, and messages between businesses or individuals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4742

POSTAL CLERKS, EXCEPT MAIL CARRIERS

POSTAL CLERKS process mail in local post offices and large mail processing centers. Most POSTAL CLERKS sort mail. They separate incoming and outgoing mail into groups of letters, magazines, parcels, and newspapers. They also feed letters through stamp-canceling machines and sort mail by ZIP code for delivery or routing. Some work at public counters selling stamps, post cards, and stamped envelopes. They also register, insure, and weigh mail and compute the cost of mailing items. A few give tests to postal clerks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.687-014	MAIL HANDLER	3 2 2	THREE TO SIX MONTHS
		239.367-018	MAIL-DISTRIBUTION-SCHEME EXAMINER	4 2 4	SIX TO 12 MONTHS
		243.367-014	POST-OFFICE CLERK	3 3 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4743

MAIL CARRIERS, POST OFFICE

MAIL CARRIERS walk or drive over planned routes to deliver and collect mail. In the early mornings, they pick up their mail at the post office and arrange it for delivery. They then deliver the mail to places along their routes. They also collect postage-due and delivery fees for registered, certified, or insured mail. When they have completed their routes, they return to the post office with the mail they have gathered from places along their routes. They also turn in mail receipts and fees collected during the day.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	230.363-010	RURAL-MAIL CARRIER	3 3 2	UP TO 30 DAYS
		230.367-010	MAIL CARRIER	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 4744

MAIL CLERKS, EXCEPT POST OFFICE

These CLERKS prepare incoming and outgoing mail for distribution. When letters are received in an office, they stamp them with the date and then open, read, and sort them. They sort mail by destination and type, such as 'bills', 'orders', and 'payments'. Once the mail is sorted they route it to the proper person or office for handling. They also prepare outgoing mail by sealing and stamping envelopes and packages. They may keep records of letters received and sent out. They also may use mail preparing and handling machines to process mail.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.562-014	TRUST-MAIL CLERK	3 2 3	THREE TO SIX MONTHS
		209.587-018	DIRECT-MAIL CLERK	3 1 2	THREE TO SIX MONTHS
		209.587-026	MAIL CLERK	3 1 2	UP TO 30 DAYS
		209.587-038	REGISTERED-MAIL CLERK	3 1 2	30 TO 90 DAYS
		222.387-038	PARCEL-POST CLERK	3 2 3	THREE TO SIX MONTHS
		222.567-018	SLOT-TAG INSERTER	2 2 2	UP TO 30 DAYS
		222.587-030	MAILER	2 2 2	30 TO 90 DAYS
		222.587-032	MAILER APPRENTICE	2 2 2	30 TO 90 DAYS
		243.367-010	MAIL CENSOR	4 2 3	SIX TO 12 MONTHS
		249.687-010	OFFICE COPY SELECTOR	3 1 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4745

MESSENGERS

MESSENGERS run errands and deliver letters, packages, and messages to homes, between departments, or to other businesses. Their work duties depend upon the job. Some deliver and pick up mail in a bank or business. Others deliver telegrams or packages to homes. In some jobs they may furnish workers with clerical supplies and deliver messages between offices. In other jobs, they sort and hand out mail, file articles and records, and do other small tasks that make office work go more smoothly.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	230.367-014	MESSENGER, BANK	3	2	3 THREE TO SIX MONTHS
		230.647-010	SINGING MESSENGER	3	2	3 UP TO 30 DAYS
		239.677-010	MESSENGER, COPY	2	1	2 UP TO 30 DAYS
		239.687-010	ROUTE AIDE	2	1	2 UP TO 30 DAYS
		239.687-014	TUBE OPERATOR	2	1	2 UP TO 30 DAYS
		248.367-030	WATERWAY TRAFFIC CHECKER	3	3	3 30 TO 90 DAYS
07.0705	GENERAL OFFICE CLERK	239.567-010	OFFICE HELPER	2	2	2 UP TO 30 DAYS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS 0	215.563-010	CALLER	2	2	2 UP TO 30 DAYS
		230.667-010	DELIVERER, OUTSIDE	2	1	2 UP TO 30 DAYS

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OCCUPATION: 4750

MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS

These workers keep track of materials, equipment, and work schedules. Some work as inventory clerks, receiving and dispersing goods and equipment from storerooms. Some control the flow of work or materials between company departments or dispatch materials and workers to work sites. Some work as meter readers, materials checkers, samplers, or expeditors. They check goods, measure use of products, or insure that production or service work run smoothly.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4751

DISPATCHERS

DISPATCHERS send out workers, materials, and equipment as required by work orders. They review work orders and schedules and notify workers of repair or other work needed or materials that should be delivered. They may talk with department supervisors to find out how work is progressing and compile reports on the progress of work. DISPATCHERS also keep records of work orders received and relayed. DISPATCHERS work in many different settings and jobs. Many have other duties in addition to those described.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	221.367-070	SERVICE CLERK	3 2 2	THREE TO SIX MONTHS
		221.367-082	WORK-ORDER-SORTING CLERK	3 2 3	SIX TO 12 MONTHS
		239.167-014	DISPATCHER	4 3 4	TWO TO FOUR YEARS
		239.367-014	DISPATCHER, MAINTNANCE SERVICE	3 2 3	30 TO 90 DAYS
		372.167-010	DISPATCHER, SECURITY GUARD	4 3 3	ONE TO TWO YEARS
		910.367-018	ENGINE DISPATCHER	3 2 3	THREE TO SIX MONTHS
		913.167-010	BUS DISPATCHER, INTERSTATE	4 3 3	SIX TO 12 MONTHS
		913.367-010	TAXICAB STARTER	3 2 2	30 TO 90 DAYS
		919.162-010	DISPATCHER, TRAFFIC OR SYSTEM	4 3 3	TWO TO FOUR YEARS
		952.167-010	DISPATCHER, SERVICE OR WORK	4 3 3	TWO TO FOUR YEARS
		954.367-010	WATER-SERVICE DISPATCHER	3 2 3	THREE TO SIX MONTHS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	239.367-030	DISPATCHER, STREET DEPARTMENT	3 1 2	30 TO 90 DAYS
		379.362-010	DISPATCHER, RADIO	3 2 3	THREE TO SIX MONTHS
		939.362-010	DISPATCHER, OIL WELL SERVICES	3 3 3	SIX TO 12 MONTHS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	248.367-026	DISPATCHER, SHIP PILOT	3 3 3	THREE TO SIX MONTHS
		249.167-014	DISPATCHER, MOTOR VEHICLE	3 2 3	SIX TO 12 MONTHS
08.1102	TRANSPORTATION MARKETING	249.167-014	DISPATCHER, MOTOR VEHICLE	3 2 3	SIX TO 12 MONTHS
15.0901	COAL MINING TECHNOLOGY	932.167-010	DISPATCHER	4 3 3	ONE TO TWO YEARS
15.0903	PETROLEUM TECHNOLOGY	914.167-014	DISPATCHER, OIL	4 4 4	TWO TO FOUR YEARS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	939.362-010	DISPATCHER, OIL WELL SERVICES	3 3 3	SIX TO 12 MONTHS
47.0604	AUTOMOTIVE MECHANICS	221.367-066	SCHEDULER, MAINTENANCE	3 2 3	THREE TO SIX MONTHS
49.0204	MINING EQUIPMENT OPERATION	932.167-010	DISPATCHER	4 3 3	ONE TO TWO YEARS
49.0302	BARGE AND BOAT OPERATIONS	911.167-010	DISPATCHER, TUGBOAT	4 3 4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 4752

PRODUCTION AND PLANNING CLERKS

These workers plan and schedule work activities in a business to insure that production or service schedules are met. They estimate the number of workers and amount and types of materials needed and then arrange for them to be provided. They schedule workers' time, relay work orders and schedules to departments, and compile work reports. They also may coordinate flow of materials and equipment between departments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	215.167-010	CAR CLERK, PULLMAN	4 3 3	ONE TO TWO YEARS
		219.362-030	EXTENSION CLERK	4 3 3	SIX TO 12 MONTHS
		221.162-010	PRODUCTION SCHEDULER, PAPERBOARD PR	4 4 4	ONE TO TWO YEARS
		221.167-014	MATERIAL COORDINATOR	4 3 4	ONE TO TWO YEARS
		221.167-018	PRODUCTION COORDINATOR	4 3 4	ONE TO TWO YEARS
		221.167-022	RETORT-LOAD EXPEDITER	3 3 3	SIX TO 12 MONTHS
		221.367-034	MACHINE-STOPPAGE-FREQUENCY CHECKER	2 2 2	30 TO 90 DAYS
		221.367-038	MAINTENANCE DATA ANALYST	3 3 3	SIX TO 12 MONTHS
		221.367-074	SERVICE-LIAISON REPRESENTATIVE	4 3 4	ONE TO TWO YEARS
		221.382-022	REPAIR-ORDER CLERK	3 3 3	30 TO 90 DAYS
		221.387-030	JACKET PREPARER	3 2 3	30 TO 90 DAYS
		221.482-014	LUMBER ESTIMATOR	3 3 3	SIX TO 12 MONTHS
		221.587-014	CHECKER-IN	2 1 2	UP TO 30 DAYS
		221.587-038	TICKET SCHEDULER	2 2 2	30 TO 90 DAYS
		221.587-042	WEAVE-DEFECT-CHARTING CLERK	2 1 2	UP TO 30 DAYS
		221.587-050	YARDAGE-CONTROL CLERK	2 1 2	UP TO 30 DAYS
		221.667-010	WORK-TICKET DISTRIBUTOR	2 1 2	UP TO 30 DAYS
		229.387-010	MATERIAL LISTER	4 3 4	SIX TO 12 MONTHS
		913.167-018	SCHEDULE MAKER	4 3 4	SIX TO 12 MONTHS
06.0705	TRANSPORTATION MANAGEMENT	215.367-018	TAXICAB COORDINATOR	3 2 2	SIX TO 12 MONTHS
07.0102	ACCOUNTING AND COMPUTING	221.362-018	ESTIMATOR, PAPERBOARD BOXES	4 4 4	ONE TO TWO YEARS
07.0302	BUSINESS COMPUTER AND CONSOLE OPERATION	221.687-010	CONTROL CLERK, DATA PROCESSING 2	3 2 3	THREE TO SIX MONTHS
07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERATION	221.367-046	MILL RECORDER, COMPUTERIZED MILL	3 2 3	SIX TO 12 MONTHS
		221.382-014	CONTROL CLERK, DATA PROCESSING 1	4 3 3	THREE TO SIX MONTHS
07.0503	PERSONNEL ASSISTING	215.362-010	CREW SCHEDULER	3 3 3	SIX TO 12 MONTHS
		215.362-014	DISPATCHER CLERK	3 2 2	THREE TO SIX MONTHS
		215.367-010	ASSIGNMENT CLERK	3 2 2	30 TO 90 DAYS
		215.367-014	PERSONNEL SCHEDULER	4 3 3	THREE TO SIX MONTHS
		215.367-018	TAXICAB COORDINATOR	3 2 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4752 PRODUCTION AND PLANNING CLERKS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0704	NO CIP ASSIGNED	221.367-058	REPRODUCTION ORDER PROCESSOR	3 2 3	SIX TO 12 MONTHS
07.0705	GENERAL OFFICE CLERK	221.362-022	PROGRESS CLERK	4 3 3	SIX TO 12 MONTHS
		221.367-026	LINE-UP WORKER	3 2 3	30 TO 90 DAYS
		221.367-054	RELAY-RECORD CLERK	3 3 3	SIX TO 12 MONTHS
		221.367-078	TRAFFIC CLERK	4 2 3	THREE TO SIX MONTHS
		221.382-018	PRODUCTION CLERK	3 3 3	THREE TO SIX MONTHS
		221.387-018	CONTROL CLERK	3 3 3	ONE TO TWO YEARS
		221.387-046	ORDER DETAILER	3 3 3	THREE TO SIX MONTHS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	221.367-018	FOLLOW-UP CLERK	4 3 3	ONE TO TWO YEARS
		221.367-050	RECORDER	3 3 3	SIX TO 12 MONTHS
		221.387-050	PRODUCTION ASSISTANT	3 3 3	THREE TO SIX MONTHS
		221.387-054	BATCH-RECORDS CLERK	3 2 2	30 TO 90 DAYS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	248.367-010	AIRPLANE-DISPATCH CLERK	4 3 4	SIX TO 12 MONTHS
08.1102	TRANSPORTATION MARKETING	248.167-010	SUPERCARGO	4 3 3	TWO TO FOUR YEARS
09.0201	ADVERTISING	247.387-014	ADVERTISING-DISPATCH CLERK	3 2 3	THREE TO SIX MONTHS
15.0603	INDUSTRIAL TECHNOLOGY	221.162-010	PRODUCTION SCHEDULLR, TAPERBOARD PR	4 4 4	ONE TO TWO YEARS
		221.167-014	MATERIAL COORDINATOR	4 3 4	ONE TO TWO YEARS
		221.167-018	PRODUCTION COORDINATOR	4 3 4	ONE TO TWO YEARS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	221.482-010	FABRIC-AND-ACCESSORIES ESTIMATOR	3 3 3	30 TO 90 DAYS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	221.367-010	ALTERATIONS WORKROOM CLERK	3 2 2	30 TO 90 DAYS
20.0306	FASHION/FABRIC COORDINATION	221.484-010	YARDAGE ESTIMATOR	3 3 3	ONE TO TWO YEARS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	221.367-030	LOCOMOTIVE LUBRICATING-SYSTEMS CLER	3 2 3	SIX TO 12 MONTHS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	953.167-010	GAS DISPATCHER	4 3 3	FOUR TO TEN YEARS
48.0202	BOOKBINDING	221.367-014	ESTIMATOR, PRINTING	4 3 3	ONE TO TWO YEARS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	221.167-010	COPY CUTTER	4 3 3	FOUR TO TEN YEARS
		221.367-014	ESTIMATOR, PRINTING	4 3 3	ONE TO TWO YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.564-010	DETAILER, SCHOOL PHOTOGRAPHS	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 4752 PRODUCTION AND PLANNING CLERKS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
48.0208	PRINTING PRESS OPERATIONS	221.367-014	ESTIMATOR, PRINTING	4 3 3 ONE TO TWO YEARS
48.0209	SILK SCREEN MAKING AND PRINTING	221.367-014	ESTIMATOR, PRINTING	4 3 3 ONE TO TWO YEARS
48.0304	SHOE AND BOOT REPAIR	221.387-010	BACK-SHOE WORKER	3 2 3 THREE TO SIX MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	221.387-022	ESTIMATOR, JEWELRY	4 3 3 ONE TO TWO YEARS
49.0105	AIR TRAFFIC CONTROL	912.367-010	FLIGHT-INFORMATION EXPEDITER	4 4 4 SIX TO 12 MONTHS

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OCCUPATION: 4753

TRAFFIC, SHIPPING, AND RECEIVING CLERKS

These workers keep track of all shipments of goods leaving or arriving at a place of business. Before goods are shipped, they check to see that orders have been filled correctly. They may fill orders themselves, by obtaining goods from the stockroom and packaging them for shipment. They also may truck goods to the loading dock and direct their loading. They check incoming shipments to make sure orders have been correctly filled. They keep records of incoming and outgoing shipments and may arrange for adjustments when goods are lost or damaged.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.567-018	ROUTING CLERK	4 2 3	30 TO 90 DAYS
		222.367-022	EXPRESS CLERK	3 3 3	THREE TO SIX MONTHS
		222.387-022	GUN-REPAIR CLERK	3 2 2	30 TO 90 DAYS
		222.387-054	SORTER-PRICER	3 2 2	SIX TO 12 MONTHS
		222.485-010	MILK-RECEIVER, TANK TRUCK	3 2 2	30 TO 90 DAYS
		222.585-010	MILK RECEIVER	3 2 2	30 TO 90 DAYS
		222.587-010	AIRCRAFT-EQUIPMENT-AND-ACCESSORIES	3 3 3	THREE TO SIX MONTHS
		919.687-010	CHECKER	1 1 1	UP TO 30 DAYS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	219.367-022	PAPER-CONTROL CLERK	3 3 3	SIX TO 12 MONTHS
		219.357-030	SHIPPING-ORDER CLERK	3 2 3	THREE TO SIX MONTHS
		222.387-014	CAR CHECKER	3 2 3	UP TO 30 DAYS
		222.387-018	FUEL-OIL CLERK	3 3 2	TWO TO FOUR YEARS
		222.387-050	SHIPPING AND RECEIVING CLERK	3 3 2	SIX TO 12 MONTHS
		222.567-010	GRAIN ELEVATOR CLERK	3 2 2	THREE TO SIX MONTHS
		222.567-014	SHIP RUNNER	3 2 2	THREE TO SIX MONTHS
		222.587-014	BRAILLE-AND-TALKING BOOKS CLERK	3 2 3	30 TO 90 DAYS
		222.587-018	DISTRIBUTING CLERK	3 2 3	30 TO 90 DAYS
		222.587-034	ROUTE-DELIVERY CLERK	2 2 2	30 TO 90 DAYS
		222.587-054	TRANSFORMER-STOCK CLERK	3 2 2	30 TO 90 DAYS
		222.587-058	VAULT WORKER	3 2 2	30 TO 90 DAYS
		222.687-022	ROUTING CLERK	2 2 2	UP TO 30 DAYS
		248.362-010	INCOMING-FREIGHT CLERK	3 3 3	SIX TO 12 MONTHS
		248.367-014	BOOKING CLERK	3 2 2	SIX TO 12 MONTHS
		248.367-018	CARGO AGENT	3 3 3	SIX TO 12 MONTHS
		248.367-022	CONTAINER COORDINATOR	4 3 3	ONE TO TWO YEARS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	209.367-042	RECONSIGNMENT CLERK	3 3 3	THREE TO SIX MONTHS
		214.587-014	TRAFFIC CLERK	3 3 2	THREE TO SIX MONTHS
08.1102	TRANSPORTATION MARKETING	248.367-018	CARGO AGENT	3 3 3	SIX TO 12 MONTHS
08.1106	WAREHOUSE SERVICES MARKETING	222.367-030	FLOOR-SPACE ALLOCATOR	3 2 2	30 TO 90 DAYS

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OCCUPATION: 4753 TRAFFIC, SHIPPING, AND RECEIVING CLERKS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.687-018	PHOTOFINISHING LABORATORY WORKER	2 2 2 30 TO 90 DAYS

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OCCUPATION: 4754

STOCK AND INVENTORY CLERKS

STOCK and INVENTORY CLERKS receive, unpack, store, and issue goods and merchandise. They control the flow of supplies in and out of stock rooms. They report damaged or spoiled goods, keep track of the number of items in storage, and reorder things that are in short supply. They also may check the items for quality and amount, and sometimes make minor repairs or adjustments. Sometimes they label, pack, crate, or address goods for delivery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
00.0000	NO CIP ASSIGNED	222.167-010	METAL-CONTROL COORDINATOR	4 3 3	ONE TO TWO YEARS
		222.367-014	CUT-FILE CLERK	3 1 2	THREE TO SIX MONTHS
		222.487-010	CHECKER, BAKERY PRODUCTS	3 2 3	30 TO 90 DAYS
		222.587-042	SAMPLER, WOOL	2 2 2	30 TO 90 DAYS
		222.684-010	MEAT CLERK	2 1 1	UP TO 30 DAYS
		222.687-038	TOOTH CLERK	3 2 2	THREE TO SIX MONTHS
		229.367-010	FIELD RECORDER	3 3 3	THREE TO SIX MONTHS
		920.687-154	SAMPLE WORKER	3 1 2	30 TO 90 DAYS
		969.367-010	CUSTODIAN, ATHLETIC EQUIPMENT	3 2 2	SIX TO 12 MONTHS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	219.367-018	MERCHANDISE DISTRIBUTOR	3 2 2	30 TO 90 DAYS
		219.367-034	STOCK-CONTROL CLERK	4 3 3	SIX TO 12 MONTHS
		219.387-026	SPACE-AND-STORAGE CLERK	3 2 2	30 TO 90 DAYS
		221.587-018	ODD-PIECE CHECKER	2 1 2	UP TO 30 DAYS
		221.587-022	OUTSOLE SCHEDULER	2 1 2	UP TO 30 DAYS
		222.367-026	FILM-OR-TAPE LIBRARIAN	3 2 3	SIX TO 12 MONTHS
		222.367-038	MAGAZINE KEEPER	3 2 2	SIX TO 12 MONTHS
		222.367-042	PARTS CLERK	3 2 2	SIX TO 12 MONTHS
		222.367-050	PRESCRIPTION CLERK, LENS-AND-FRAMES	3 2 2	SIX TO 12 MONTHS
		222.367-062	TOOL-CRIB ATTENDANT	3 2 2	SIX TO 12 MONTHS
		222.367-066	TRUCKLOAD CHECKER	3 2 3	30 TO 90 DAYS
		222.387-026	INVENTORY CLERK	3 3 3	THREE TO SIX MONTHS
		222.387-030	LINEN-ROOM ATTENDANT	3 2 2	30 TO 90 DAYS
		222.387-034	MATERIAL CLERK	3 3 2	SIX TO 12 MONTHS
		222.387-042	PROPERTY CUSTODIAN	3 3 2	SIX TO 12 MONTHS
		222.387-058	STOCK CLERK	3 3 2	THREE TO SIX MONTHS
		222.387-062	STOREKEEPER	3 3 2	SIX TO 12 MONTHS
		222.387-070	TYPE-LIBRARY CLERK	3 2 2	30 TO 90 DAYS
		222.487-014	ORDER FILLER	3 2 2	30 TO 90 DAYS
		222.587-022	KITCHEN CLERK	3 2 2	THREE TO SIX MONTHS
		222.587-050	SWATCH CLERK	2 2 2	UP TO 30 DAYS
		229.367-014	PARTS LISTER	3 3 3	THREE TO SIX MONTHS
		229.587-014	QUALITY-CONTROL CLERK	3 2 3	30 TO 90 DAYS
		249.367-026	CREDIT-CARD-CONTROL CLERK	3 2 2	30 TO 90 DAYS

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OCCUPATION: 4754 STOCK AND INVENTORY CLERKS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		249.367-058	PARTS-ORDER-AND-STOCK CLERK	3 2 2	SIX TO 12 MONTHS
		249.367-066	PROCUREMENT CLERK	4 3 3	THREE TO SIX MONTHS
		339.687-010	SUPPLY CLERK	2 2 1	30 TO 90 DAYS
		381.687-010	CENTRAL-SUPPLY WORKER	2 1 2	30 TO 90 DAYS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	209.367-054	YARD CLERK	3 2 2	30 TO 90 DAYS
08.0104	FOOTWEAR MARKETING	222.687-026	SAMPLE-DISPLAY PREPARER	3 2 2	30 TO 90 DAYS
08.0705	RETAILING	219.367-018	MERCHANDISE DISTRIBUTOR	3 2 2	30 TO 90 DAYS
		219.367-034	STOCK-CONTROL CLERK	4 3 3	SIX TO 12 MONTHS
		222.487-014	ORDER FILLER	3 2 2	30 TO 90 DAYS
		222.687-026	SAMPLE-DISPLAY PREPARER	3 2 2	30 TO 90 DAYS
08.0904	RECREATIONAL PRODUCTS MARKETING	219.367-034	STOCK-CONTROL CLERK	4 3 3	SIX TO 12 MONTHS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	222.367-042	PARTS CLERK	3 2 2	SIX TO 12 MONTHS
12.0403	COSMETOLOGY	339.687-010	SUPPLY CLERK	2 2 1	30 TO 90 DAYS
17.0502	CENTRAL SUPPLY TECHNOLOGY	381.687-010	CENTRAL-SUPPLY WORKER	2 1 2	30 TO 90 DAYS
20.0406	FOOD SERVICE	222.387-058	STOCK CLERK	3 3 2	THREE TO SIX MONTHS
20.0605	EXECUTIVE HOUSEKEEPING	222.387-030	LINEN-ROOM ATTENDANT	3 2 2	30 TO 90 DAYS
		355.687-010	CLOTHES-ROOM WORKER	2 1 2	UP TO 30 DAYS

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OCCUPATION: 4755

METER READERS

METER READERS go to homes and businesses to check meters that register the amount of electricity, steam, gas, or water used by customers. They record the amount used, and then check, watch for, and report any damage to the meters. They may walk or drive a truck along their assigned routes to take the meter readings. They also may collect overdue payments from customers and stop service when bills remain unpaid.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.567-010	METER READER	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 4756

WEIGHERS, MEASURERS, AND CHECKERS

These people check, weigh, measure, and count materials, products, or equipment and record information about them. They also may compute the costs, value, or size of items. This information may be used for billing, quality control, or production and payroll records. These people work in a variety of jobs and settings. Some weigh garbage, check aircraft parts, score tests, check shipments of goods or time TV news reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	221.467-010	GIN CLERK	3 2 2	30 TO 90 DAYS
		221.482-018	TICKET WORKER	3 2 2	UP TO 30 DAYS
		221.487-010	LUMBER SCALER	3 3 2	30 TO 90 DAYS
		221.587-026	RECORDER	3 1 2	UP TO 30 DAYS
		221.587-046	WHEEL-PRESS CLERK	2 1 2	UP TO 30 DAYS
		222.387-010	AIRCRAFT-SHIPPING CHECKER	3 3 2	SIX TO 12 MONTHS
		222.587-046	STACKER	2 2 1	UP TO 30 DAYS
		222.687-010	CHECKER 1	2 2 2	UP TO 30 DAYS
		229.387-014	TANK CALIBRATOR	4 4 3	SIX TO 12 MONTHS
		247.387-010	ADVERTISING CLERK	3 2 2	THREE TO SIX MONTHS
		249.387-010	BROADCAST CHECKER	3 2 3	THREE TO SIX MONTHS
		299.587-010	PRODUCE WEIGHER	1 1 1	SHORT DEMONSTRATION
07.0502	TRAINING ASSISTING	249.367-078	TEST TECHNICIAN	3 2 3	THREE TO SIX MONTHS
07.0705	GENERAL OFFICE CLERK	216.462-010	BOOKING PRIZER	3 3 3	30 TO 90 DAYS
		219.367-010	CHECKER, DUMP GROUNDS	3 3 2	30 TO 90 DAYS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	221.587-010	CHECKER	2 1 2	UP TO 30 DAYS
		221.587-030	TALLIER	3 2 2	UP TO 30 DAYS
		221.587-034	TARE WEIGHER	2 2 2	30 TO 90 DAYS
		222.367-010	CARGO CHECKER	3 2 2	THREE TO SIX MONTHS
		222.367-058	SHIPPING-AND-RECEIVING WEIGHER	3 2 2	UP TO 30 DAYS
		222.687-018	RECEIVING CHECKER	3 2 3	30 TO 90 DAYS
		222.687-030	SHIPPING CHECKER	3 3 2	THREE TO SIX MONTHS
08.0705	RETAILING	222.687-018	RECEIVING CHECKER	3 2 3	30 TO 90 DAYS
09.0201	ADVERTISING	247.387-010	ADVERTISING CLERK	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 4757

SAMPLERS

SAMPLERS collect samples of products or materials to check them for defects, send them for testing, or mail them to customers. They often mark and file the samples for later use in filling orders or preparing reports. Some check products to see if they meet customer specifications. These jobs involve work with such products as paper, crude oil, phone equipment, cloth, milk, and raw cotton.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	221.367-022	INDUSTRIAL-ORDER CLERK	4 3 4	THREE TO SIX MONTHS
		222.367-046	PETROLEUM INSPECTOR	3 2 2	SIX TO 12 MONTHS
		922.687-042	COTTON SAMPLER	2 1 1	UP TO 30 DAYS
02.0206	DAIRY	410.357-010	MILK SAMPLER	3 2 3	THREE TO SIX MONTHS
02.0301	FOOD SCIENCES	410.357-010	MILK SAMPLER	3 2 3	THREE TO SIX MONTHS
07.0705	GENERAL OFFICE CLERK	209.587-046	SAMPLE CLERK, PAPER	3 2 2	30 TO 90 DAYS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	222.387-046	RETURNED-TELEPHONE-EQUIPMENT APPRAI	3 3 2	SIX TO 12 MONTHS
		222.387-066	SAMPLE CLERK	3 3 3	SIX TO 12 MONTHS
20.0506	HOME FURNISHINGS AIDE	229.687-010	SAMPLE CHECKER	3 1 2	30 TO 90 DAYS

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OCCUPATION: 4758

EXPEDITERS

EXPEDITERS try to see to it that production or service work runs smoothly and goods are delivered on schedule. They keep production records, write special orders, and perform services for customers. Some check work schedules and orders to see what materials will be needed and inform supervisors of the location, availability, and condition of materials. Others decide the order in which items will be made or repaired, compile reports on the progress of job orders, contact vendors to make sure supplies are shipped on time.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	221.367-042	MATERIAL EXPEDITER	3 3 3	THREE TO SIX MONTHS
		221.387-014	COMPLAINT CLERK	3 1 3	THREE TO SIX MONTHS
		222.367-018	EXPEDITER	4 3 3	THREE TO SIX MONTHS
07.0503	PERSONNEL ASSISTING	249.167-018	LABOR EXPEDITER	4 3 4	SIX TO 12 MONTHS
07.0705	GENERAL OFFICE CLERK	221.387-034	JOB TRACER	3 2 3	THREE TO SIX MONTHS
07.0703	SHIPPING, RECEIVING, AND STOCK CLERK	221.387-026	EXPEDITER CLERK	3 2 3	30 TO 90 DAYS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	912.367-014	TRANSPORTATION AGENT	3 3 3	SIX TO 12 MONTHS
08.0705	RETAILING	299.367-010	CUSTOMER-SERVICE CLERK	3 3 3	THREE TO SIX MONTHS
08.0706	SALES	299.367-010	CUSTOMER-SERVICE CLERK	3 3 3	THREE TO SIX MONTHS
08.1102	TRANSPORTATION MARKETING	912.367-014	TRANSPORTATION AGENT	3 3 3	SIX TO 12 MONTHS
20.0406	FOOD SERVICE	310.267-010	ANALYST, FOOD AND BEVERAGE	5 4 4	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4759

MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTION CLERKS, N.E.C.

These workers examine orders for goods and services and see to it that the orders are processed promptly. They receive, store, and issue materials. They schedule the use of materials or services and keep records of materials on hand, in use, or in production. They may sort items and mark them with prices or codes so that they can be found quickly. They also may compile records, prepare reports, and order needed materials.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.667-014	ORDER CALLER	2 1 2	UP TO 30 DAYS
		221.387-042	MELTER CLERK	3 3 3	THREE TO SIX MONTHS
		222.687-014	GARMENT SORTER	2 2 1	UP TO 30 DAYS
		222.687-034	STUBBER	2 2 2	UP TO 30 DAYS
		229.587-010	GREY-GOODS MARKER	2 1 2	UP TO 30 DAYS
		229.587-018	TICKETER	2 1 2	UP TO 30 DAYS
		249.587-018	DOCUMENT PREPARER, MICROFILMING	3 1 2	UP TO 30 DAYS
		910.367-014	CAR DISTRIBUTOR	4 2 3	SIX TO 12 MONTHS
07.0705	GENERAL OFFICE CLERK	206.367-010	ENGINEERING-DOCUMENT-CONTROL CLERK	4 3 4	ONE TO TWO YEARS
		209.587-050	WRONG-ADDRESS CLERK	2 1 2	30 TO 90 DAYS
		221.362-010	AIRCRAFT-LOG CLERK	3 3 3	THREE TO SIX MONTHS
		221.362-026	RAILROAD-MAINTENANCE CLERK	3 3 3	THREE TO SIX MONTHS
		221.387-038	LAUNDRY CLERK	3 2 3	30 TO 90 DAYS
07.0708	SHIPPING, RECEIVING, AND STOCK CLERK	216.567-010	TICKET MARKER	3 2 3	30 TO 90 DAYS
		222.367-034	LOST-AND-FOUND CLERK	3 2 2	30 TO 90 DAYS
		222.587-026	LABORATORY CLERK	3 2 2	30 TO 90 DAYS
		222.587-038	ROUTER	2 1 2	UP TO 30 DAYS
		229.267-010	PARTS CATALOGER	4 3 4	ONE TO TWO YEARS
08.0705	RETAILING	209.587-034	MARKER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 4780

ADJUSTERS, INVESTIGATORS, AND COLLECTORS

These workers gather information about individuals and businesses. They may work for insurance companies, investigating and settling claims. They may examine financial records to make credit reports or determine eligibility for financial aid. Others contact people to arrange for payment of overdue accounts and debts. They gather evidence, interview people, recommend action to be taken, and write reports of their findings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4782

INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS

These people study insurance claims to see whether clients' policies cover them for particular losses. They also determine the amount of loss suffered by clients. They talk with clients to try to settle claims, and may approve payments to them. They use reports, physical evidence, and witnesses' reports to investigate claims. Many of these workers specialize in a certain type of claim, such as auto, home, life, or property damage or loss.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0203	INSURANCE CLERK	205.367-018	CLAIMS CLERK 2	3 3 3	THREE TO SIX MONTHS
		241.217-010	CLAIM ADJUSTER	5 3 5	ONE TO TWO YEARS
		241.362-010	CLAIMS CLERK 1	4 3 3	THREE TO SIX MONTHS
08.1001	INSURANCE MARKETING	241.217-010	CLAIM ADJUSTER	5 3 5	ONE TO TWO YEARS
		241.267-014	APPRAISER, AUTOMOBILE DAMAGE	4 2 4	TWO TO FOUR YEARS
		241.267-018	CLAIM EXAMINER	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 4783

INVESTIGATORS AND ADJUSTERS, EXCEPT INSURANCE

These workers investigate people and/or businesses applying for credit, work, insurance, or loans. Some check business practices to make sure regulations are being followed. Some investigate customer complaints about products, services, or billings. These workers contact people by phone, mail, and in person to gather information about the persons, businesses, or complaints they are investigating. They often must travel to conduct interviews, trace debtors, check public records, or make inspections. They prepare reports of their findings and may take or recommend actions to resolve complaints or problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	209.362-018	CREDIT-REFERNCE CLERK	3	2 3	THREE TO SIX MONTHS
		241.267-030	INVESTIGATOR	4	2 4	SIX TO 12 MONTHS
		241.367-018	LOAN INTERVIEWER	4	3 3	ONE TO TWO YEARS
		241.367-026	SKIP TRACER	4	2 4	THREE TO SIX MONTHS
		241.367-030	THROW-OUT CLERK	3	3 3	THREE TO SIX MONTHS
		241.367-038	INVESTIGATOR, DEALER ACCOUNTS	4	3 4	UP TO 30 DAYS
01.0502	AGRICULTURAL SERVICES	249.387-018	PEDIGREE TRACER	3	2 3	30 TO 90 DAYS
07.0703	CORRESPONDENCE CLERK	241.267-034	INVESTIGATOR, UTILITY-BILL COMPLAIN	4	4 4	ONE TO TWO YEARS
		241.367-014	CUSTOMER-COMPLAINT CLERK	4	3 4	SIX TO 12 MONTHS
		241.387-010	CLAIMS CLERK	4	3 3	SIX TO 12 MONTHS
07.0705	GENERAL OFFICE CLERK	249.387-018	PEDIGREE TRACER	3	2 3	30 TO 90 DAYS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	209.367-034	LOST-CHARGE-CARD CLERK	3	2 3	30 TO 90 DAYS
07.0709	TRAFFIC, RATE, AND TRANSPORTATION CLERK	214.362-034	TARIFF INSPECTOR	4	4 4	SIX TO 12 MONTHS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	241.267-030	INVESTIGATOR	4	2 4	SIX TO 12 MONTHS
08.0401	FINANCIAL SERVICES MARKETING	241.267-030	INVESTIGATOR	4	2 4	SIX TO 12 MONTHS
		241.367-018	LOAN INTERVIEWER	4	3 3	ONE TO TWO YEARS
		241.367-038	INVESTIGATOR, DEALER ACCOUNTS	4	3 4	UP TO 30 DAYS
08.0705	RETAILING	241.367-014	CUSTOMER-COMPLAINT CLERK	4	3 4	SIX TO 12 MONTHS
08.1001	INSURANCE MARKETING	241.267-030	INVESTIGATOR	4	2 4	SIX TO 12 MONTHS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	191.167-022	SERVICE REPRESENTATIVE	5	4 4	TWO TO FOUR YEARS
		241.367-034	TIRE ADJUSTER	3	3 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4784

CLERKS, SOCIAL WELFARE

SOCIAL WELFARE CLERKS interview and investigate people applying for public aid. They talk with applicants to get information, such as size of family, health problems, and income. They advise applicants of requirements and opportunities for public aid, such as financial aid or low rent housing. They also give out information on community sources of aid. They check information obtained from applicants by contacting employers and public agencies. They record personal and financial information about applicants and determine whether aid should be granted, denied, or changed. They also prepare and keep records of assigned cases.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	195.267-010	ELIGIBILITY WORKER	4 3 4	ONE TO TWO YEARS
07.0203	INSURANCE CLERK	214.362-022	INSURANCE CLERK	4 3 4	SIX TO 12 MONTHS
07.0605	MEDICAL SECRETARIAL	214.362-022	INSURANCE CLERK	4 3 4	SIX TO 12 MONTHS
07.0707	RECEPTIONIST AND COMMUNICATION SYSTEMS O	168.267-038	ELIGIBILITY-AND-OCCUPANCY INTERVIEW	4 3 4	SIX TO 12 MONTHS
17.0503	MEDICAL ASSISTING	214.362-022	INSURANCE CLERK	4 3 4	SIX TO 12 MONTHS

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OCCUPATION: 4786

BILL AND ACCOUNT COLLECTORS

These workers contact people to arrange or collect payments for unpaid bills or accounts. Their main job is to convince people to pay their bills. Some keep files of information on debtors, the kinds and amounts of unpaid bills, and past payments made. They may contact the debtor by phone or mail or in person. Sometimes, they must search for debtors. They may repossess goods or discontinue services when payments are overdue. Other workers in this group collect money from coin boxes, pay phones, or parking meters.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	241.357-010	COLLECTION CLERK	4 3 4	THREE TO SIX MONTHS
		241.367-010	COLLECTOR	3 3 3	THREE TO SIX MONTHS
		241.367-022	REPOSSESSOR	3 2 2	30 TO 90 DAYS
08.0705	RETAILING	241.367-010	COLLECTOR	3 3 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4787

LICENSE CLERKS

LICENSE CLERKS issue licenses and permits to qualified applicants. Some give tests to applicants to see if they meet licensing requirements. They issue driver's, liquor, marriage, dog, or other licenses and permits. They question applicants to get required information. They record this information on prepared forms and collect required fees. They also answer people's questions about licensing requirements. Some give tests to applicants to see if they meet requirements.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0705	GENERAL OFFICE CLERK	205.367-034	LICENSE CLERK	3 2 3	30 TO 90 DAYS
		249.367-030	DOG LICENSER	3 2 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4790

MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

These workers perform varied tasks to help business operations run smoothly. They may work as bank tellers, taking deposits or keeping accounts records. Others work as proof-readers, checking copy for grammatical or typographical errors. Some work in data entry jobs, typing material into computer storage systems, while others compile statistical data for graphs and reports. Others work as teacher aides, classify fingerprints, serve court orders, or compute taxes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4791

BANK TELLERS

BANK TELLERS cash checks for bank customers and help them deposit and withdraw money from their accounts. In small banks, TELLERS also may sort checks, total credit and debit slips, and prepare monthly statements for depositors. In large banks, tellers often specialize. One TELLER, for example, may sell savings bonds while another takes deposits for Christmas club accounts. Others may keep loan records, handle foreign monies, sell traveler's checks, or compute interests on savings accounts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
07.0205	TELLER	211.362-018	TELLER	4 3 2	SIX TO 12 MONTHS
		211.362-022	TELLER, COLLECTION AND EXCHANGE	4 3 3	SIX TO 12 MONTHS
		211.362-026	TELLER, NOTE	4 3 3	SIX TO 12 MONTHS
		216.362-018	EXCHANGE CLERK	4 3 3	THREE TO SIX MONTHS
		219.462-010	COUPON CLERK	4 3 4	SIX TO 12 MONTHS
08.0401	FINANCIAL SERVICES MARKETING	211.362-018	TELLER	4 3 2	SIX TO 12 MONTHS
		211.362-026	TELLER, NOTE	4 3 3	SIX TO 12 MONTHS
		216.362-018	EXCHANGE CLERK	4 3 3	THREE TO SIX MONTHS
08.0703	INTERNATIONAL MARKETING	216.362-018	EXCHANGE CLERK	4 3 3	THREE TO SIX MONTHS.

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4792

PROOFREADERS read written or typed materials to check for mistakes. They may either mark the errors they find or correct them. Some look for errors in grammar, spelling, and punctuation in copy (written matter to be reproduced in printed form), and then use special codes to mark the errors they find. Others read proof (trial copies) aloud so another worker can mark the errors. A few specialize in proofing Braille copy prepared for the blind, by sliding their fingers over the raised letters to feel for errors.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R	M	I.	TRAINING TIME
CODE	TITLE	CODE	TITLE					
00.0000	NO CIP ASSIGNED	209.367-014	BRaille PROOFREADER	4	1	4		SIX TO 12 MONTHS
		209.387-030	PROOFREADER	4	1	4		SIX TO 12 MONTHS
		209.667-010	COPY HOLDER	4	1	4		THREE TO SIX MONTHS
		247.667-010	PRODUCTION PROOFREADER	3	2	3		THREE TO SIX MONTHS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	209.387-030	PROOFREADER	4	1	4		SIX TO 12 MONTHS
		209.667-010	COPY HOLDER	4	1	4		THREE TO SIX MONTHS
		247.667-010	PRODUCTION PROOFREADER	3	2	3		THREE TO SIX MONTHS

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OCCUPATION: 4793

DATA ENTRY KEYERS

DATA ENTRY KEYERS prepare input for computers and machines by punching patterns of holes in computer cards to represent numbers, letters, and characters. They use machines similar to a typewriter, or special machines that convert what they type to holes in cards or to magnetic impulses on tapes or disks. In most newer systems, the machine is equipped with an electronic screen that displays information as it is entered. Some workers typeset, check input, prepare Braille, or code messages.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	203.382-026	VARITYPE OPERATOR	3 2 3	SIX TO 12 MONTHS
		203.582-010	BRAILLE OPERATOR	3 1 3	THREE TO SIX MONTHS
		203.582-074	ELECTRONIC-TYPESETTING-MACHINE OPER	4 3 4	ONE TO TWO YEARS
07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERATION	203.362-018	TERMINAL-SYSTEM OPERATOR	4 3 4	SIX TO 12 MONTHS
		203.382-018	MAGNETIC-TAPE-COMPOSER OPERATOR	4 3 3	SIX TO 12 MONTHS
		203.582-018	CRYPTOGRAPHIC-MACHINE OPERATOR	4 2 3	SIX TO 12 MONTHS
		203.582-022	DATA TYPIST	4 2 3	THREE TO SIX MONTHS
		203.582-026	DATA-CODER OPERATOR	4 2 4	THREE TO SIX MONTHS
		203.582-030	KEYPUNCH OPERATOR	3 2 2	30 TO 90 DAYS
		203.582-054	TERMINAL OPERATOR	4 2 3	THREE TO SIX MONTHS
		203.582-070	VERIFIER OPERATOR	3 2 2	THREE TO SIX MONTHS
		208.382-010	TERMINAL-MAKEUP OPERATOR	3 2 3	SIX TO 12 MONTHS
07.0801	WORD PROCESSING	*203.362-018	TERMINAL-SYSTEM OPERATOR	4 3 4	SIX TO 12 MONTHS
		*203.382-018	MAGNETIC-TAPE-COMPOSER OPERATOR	4 3 3	SIX TO 12 MONTHS
		*203.582-034	MAGNETIC-TAPE-TYPIWRITER OPERATOR	3 2 3	THREE TO SIX MONTHS
		*203.582-038	PERFORATOR TYPIST	3 1 3	THREE TO SIX MONTHS
		*203.582-042	PHOTOCOMPOSING-PERFORATOR-MACHINE O	4 3 3	ONE TO TWO YEARS
		*203.582-046	PHOTOCOMPOSITION-KEYBOARD OPERATOR	3 2 3	THREE TO SIX MONTHS
		*203.582-062	TYPESETTER-PERFORATOR OPERATOR	3 1 3	THREE TO SIX MONTHS
		*208.382-010	TERMINAL-MAKEUP OPERATOR	3 2 3	SIX TO 12 MONTHS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	203.382-026	VARITYPE OPERATOR	3 2 3	SIX TO 12 MONTHS
		203.582-042	PHOTOCOMPOSING-PERFORATOR-MACHINE O	4 3 3	ONE TO TWO YEARS
		203.582-046	PHOTOCOMPOSITION-KEYBOARD OPERATOR	3 2 3	THREE TO SIX MONTHS
		203.582-062	TYPESETTER-PERFORATOR OPERATOR	3 1 3	THREE TO SIX MONTHS
		203.582-074	ELECTRONIC-TYPESETTING-MACHINE OPER	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 4794

STATISTICAL CLERKS

These CLERKS compile statistics (numbers that describe things or events) and put them in table form for charts and graphs. They may use adding machines, calculators, or computers. Some help prepare directories, survey findings, medical reports, opinion polls, or census reports. Others compute the amount of electricity used by customers, the amount of gas handled by pipelines, or the amount of money which should be budgeted for projects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	209.387-014	COMPILER	3 2 3	THREE TO SIX MONTHS
		219.387-022	PLANIMETER OPERATOR	3 2 1	30 TO 90 DAYS
07.0102	ACCOUNTING AND COMPUTING	216.382-022	BUDGET CLERK	4 4 3	SIX TO 12 MONTHS
07.0103	BOOKKEEPING	214.487-010	CHART CALCULATOR	4 4 3	SIX TO 12 MONTHS
07.0104	MACHINE BILLING, BOOKKEEPING, AND COMPUT	216.382-062	STATISTICAL CLERK	3 3 3	THREE TO SIX MONTHS
		216.382-066	STATISTICAL CLERK, ADVERTISING	3 3 2	THREE TO SIX MONTHS
07.0605	MEDICAL SECRETARIAL	245.362-010	MEDICAL-RECORD CLERK	4 3 3	THREE TO SIX MONTHS
07.0705	GENERAL OFFICE CLERK	221.382-010	CHART CLERK	3 3 3	THREE TO SIX MONTHS
		221.584-010	CHART CHANGER	3 2 3	THREE TO SIX MONTHS
17.0506	MEDICAL RECORDS TECHNOLOGY	245.362-010	MEDICAL-RECORD CLERK	4 3 3	THREE TO SIX MONTHS

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OCCUPATION: 4795

TEACHER AIDES

TEACHER AIDES help teachers with teaching and nonteaching activities. They do such things as listen to students read, help students find information, and prepare special classroom projects. They also grade papers, check homework, and keep health and attendance records. Some may type, file, and copy materials for teachers to use. They may also prepare teaching materials, set up equipment, and supervise students during lunch and recess.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	219.467-010	GRADING CLERK	4	3	3	30 TO 90 DAYS
07.0502	TRAINING ASSISTING	219.467-010	GRADING CLERK	4	3	3	30 TO 90 DAYS
		249.367-074	TEACHER AIDE 2	3	3	3	30 TO 90 DAYS
		249.367-086	SATELLITE-INSTRUCTION FACILITATOR	3	2	3	30 TO 90 DAYS
13.0201	BILINGUAL/CROSSCULTURAL EDUCATION	*249.367-074	TEACHER AIDE 2	3	3	3	30 TO 90 DAYS
13.0202	BILINGUAL EDUCATION ASSISTING	*249.367-074	TEACHER AIDE 2	3	3	3	30 TO 90 DAYS
13.1501	TEACHER ASSISTING.	*249.367-074	TEACHER AIDE 2	3	3	3	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4799

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL, N.E.C.

People in these jobs perform a wide range of clerical and other duties to help organizations operate smoothly. They often work in places other than business offices. Some coordinate the use of prizes on a TV game show. Some classify fingerprints in a police station. Some code and decode foreign cables. Some compile news stories for use on radio or TV. Some convert reading material to Braille for use by the blind. These are only a few examples of the duties these workers may perform.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	----- DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	R M I.	TRAINING TIME
CODE TITLE	CODE TITLE			
00.0000 NO CIP ASSIGNED	203.382-022 MORTGAGE-PROCESSING CLERK	3	3	3 SIX TO 12 MONTHS
	203.582-014 BRAILLE TYPIST	4	1	3 SIX TO 12 MONTHS
	209.367-030 FOREIGN-EXCHANGE CODE CLERK	4	3	4 ONE TO TWO YEARS
	209.582-010 MUSIC COPYIST	3	2	2 SIX TO 12 MONTHS
	209.587-010 ADDRESSER	2	1	2 UP TO 30 DAYS
	249.367-018 CHARTER	3	2	3 30 TO 90 DAYS
	249.367-022 CREDIT AUTHORIZER	3	2	2 30 TO 90 DAYS
	249.367-050 LOAN CLOSER	4	4	4 ONE TO TWO YEARS
	249.367-062 PROCESS SERVER	3	2	3 30 TO 90 DAYS
	249.382-010 MORTGAGE CLERK	3	3	3 SIX TO 12 MONTHS
	249.677-010 VAULT ATTENDANT	2	1	2 UP TO 30 DAYS
	292.687-010 COIN-MACHINE COLLECTOR	2	1	2 UP TO 30 DAYS
	295.367-022 SAFE-DEPOSIT-BOX RENTAL CLERK	3	3	3 30 TO 90 DAYS
06.1001 INVESTMENTS AND SECURITIES	*219.132-014 SUPERVISOR, TRUST ACCOUNTS	4	3	4 TWO TO FOUR YEARS
06.1701 REAL ESTATE	241.367-042 PROPERTY-ASSESSMENT MONITOR	4	4	4 30 TO 90 DAYS
07.0102 ACCOUNTING AND COMPUTING	219.132-014 SUPERVISOR, TRUST ACCOUNTS	4	3	4 TWO TO FOUR YEARS
07.0103 BOOKKEEPING	219.487-010 TAX CLERK 1	3	2	2 30 TO 90 DAYS
07.0104 MACHINE BILLING, BOOKKEEPING, AND COMPUT	214.382-030 SETTLEMENT CLERK	3	3	3 THREE TO SIX MONTHS
07.0203 INSURANCE CLERK	209.367-010 AGENT-LICENSING CLERK	4	1	4 SIX TO 12 MONTHS
	209.382-014 SPECIAL-CERTIFICATE DICTATOR	3	2	3 ONE TO TWO YEARS
07.0401 OFFICE SUPERVISION AND MANAGEMENT	219.132-014 SUPERVISOR, TRUST ACCOUNTS	4	3	4 TWO TO FOUR YEARS
07.0602 COURT REPORTING	243.362-010 COURT CLERK	4	2	4 ONE TO TWO YEARS
07.0603 EXECUTIVE SECRETARIAL	243.367-018 TOWN CLERK	4	4	3 SIX TO 12 MONTHS
07.0607 STENOGRAPHIC	209.584-010 BRAILLE TRANSCRIBER, HAND	3	1	3 THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4799 ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERK (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
07.0705	GENERAL OFFICE CLERK	209.362-022	IDENTIFICATION TECHNICIAN	3	2	3 THREE TO SIX MONTHS
		209.367-010	AGENT-LICENSING CLERK	4	1	4 SIX TO 12 MONTHS
		209.367-038	NEWS ASSISTANT	4	2	4 30 TO 90 DAYS
		209.367-050	TRIP FOLLOWER	3	3	3 30 TO 90 DAYS
		209.382-022	TRAFFIC CLERK	3	2	3 THREE TO SIX MONTHS
		209.587-010	ADDRESSER	2	1	2 UP TO 30 DAYS
		243.367-018	TOWN CLERK	4	4	3 SIX TO 12 MONTHS
		248.387-010	FLIGHT OPERATIONS SPECIALIST	3	3	2 ONE TO TWO YEARS
		249.267-010	COPYRIGHT EXPERT	4	2	4 TWO TO FOUR YEARS
		249.387-022	READER	3	1	3 THREE TO SIX MONTHS
		249.587-014	CUTTER-AND-PASTER, PRESS CLIPPINGS	2	1	1 UP TO 30 DAYS
08.0401	FINANCIAL SERVICES MARKETING	219.132-014	SUPERVISOR, TRUST ACCOUNTS	4	3	4 TWO TO FOUR YEARS
		249.367-022	CREDIT AUTHORIZER	3	2	2 30 TO 90 DAYS
		249.367-050	LOAN CLOSER	4	4	4 ONE TO TWO YEARS
09.0201	ADVERTISING	162.167-026	PRIZE COORDINATOR	4	3	4 SIX TO 12 MONTHS
43.0103	CRIMINAL JUSTICE ADMINISTRATION	*243.362-010	COURT CLERK	4	2	4 ONE TO TWO YEARS
43.0107	LAW ENFORCEMENT	209.367-026	FINGERPRINT CLERK 1	3	2	2 UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 4999

SERVICE OCCUPATIONS

These workers perform a variety of public and personal services. They may work in private households, cleaning or caring for children. They may work in health care facilities, helping patients and assisting in treatment. Others work as waitresses, cooks, barbers, guides, ushers, or transportation attendants. Some work in protective services as firefighters and police. Others perform business maintenance or protective services.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5000

PRIVATE HOUSEHOLD OCCUPATIONS

These workers are employed in private households to perform a variety of services. They may be day workers who clean houses, care for children, or cook. Others may do only cooking, serving, and menu planning. In large, formal households, butlers, and housekeepers supervise other staff who clean, cook, and care for children. Some household workers are responsible only for the care of children.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5020

DAY WORKERS

DAY WORKERS do housecleaning chores, make beds, care for children, cook, and perform other services in private homes. They are hired by the hour or day to do this work. They often have several employers. Some specialize in a certain type of service, such as housecleaning or child care, but the duties of most workers change from day to day.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0204	FOSTER CARE/FAMILY CARE	301.687-014	DAY WORKER	2 1 1	UP TO 30 DAYS
20.0606	HOMEMAKER'S AIDE	301.687-014	DAY WORKER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5030

LAUNDERERS AND IRONERS

These people wash and iron clothes and household linens for one or several private families. They may be hired by the hour or day. They may do this work in their homes or at their employers' homes. Most of these workers do only laundry work, but a few do other household chores as well.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0606	HOMEMAKER'S AIDE	302.685-010	LAUNDRY WORKER, DOMESTIC	2 1 1	UP TO 30 DAYS
		302.687-010	IRONER	1 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5040

COOKS, PRIVATE HOUSEHOLD

People in these jobs prepare and cook food for private families or households. They also plan menus and order food supplies. Some serve meals and clean the kitchen as well. Others have helpers who perform chores like peeling vegetables and cleaning the kitchen. These COOKS prepare meals according to recipes or to suit an employer's tastes. They may prepare dishes for special diets. Some PRIVATE HOUSEHOLD COOKS live in their employer's home.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
20.0606	HOMEMAHER'S AIDE	305.281-010	COOK	3 2 2 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5050

HOUSEKEEPERS AND BUTLERS

HOUSEKEEPERS and BUTLERS supervise the staff and the operation of large households. They usually are responsible for hiring and firing the other household employees. Besides these duties, BUTLERS receive and announce guests, answer the phone, serve food and drinks, and may act as personal attendants. HOUSEKEEPERS order food and cleaning supplies and keep records of household expenses. Often, these workers live in the employer's home.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0605 EXECUTIVE HOUSEKEEPING		301.137-010	HOUSEKEEPER, HOME	4 2 3	ONE TO TWO YEARS
		309.137-010	BUTLER	4 2 3	ONE TO TWO YEARS
		309.674-010	BUTLER, SECOND	3 1 2	30 TO 90 DAYS
20.0606 HOMEMAKER'S AIDE		301.137-010	HOUSEKEEPER, HOME	4 2 3	ONE TO TWO YEARS
		309.137-010	BUTLER	4 2 3	ONE TO TWO YEARS
		309.674-010	BUTLER, SECOND	3 1 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5060

CHILD CARE WORKERS, PRIVATE HOUSEHOLD

People in these jobs take care of children in a private home. They may care for one or more children in an employer's home or in their own homes. Some rear homeless or parentless children as members of their own families. CHILD CARE WORKERS bathe children, prepare their meals, wash their clothes, and supervise their play, care for babies, sterilize bottles, prepare and change diapers. These workers may care for children on an hourly, daily, or fulltime basis.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0202	CHILD CARE AIDE/ASSISTING	301.677-010	CHILD MONITOR	3 2 3	30 TO 90 DAYS
20.0204	FOSTER CARE/FAMILY CARE	301.677-010	CHILD MONITOR	3 2 3	30 TO 90 DAYS
		309.677-014	FOSTER PARENT	3 2 3	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5070

PRIVATE HOUSEHOLD CLEANERS AND SERVANTS

People in these jobs perform a variety of tasks to help keep private homes clean and neat and to serve family members. Some plan and prepare meals, do dishes and laundry, polish furniture, vacuum, make beds and do other light household tasks. Others do heavy household work, such as washing windows and floors, painting fences, mowing lawns, and repairing doors and fixtures. Some of these workers live in the employer's home. Others report to work at private homes on a regular or part-time basis.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME.
20.0606	HOMEMAHER'S AIDE	301.474-010	HOUSE WORKER, GENERAL	3 2 2	30 TO 90 DAYS
		301.687-010	CARETAKER	2 1 2	UP TO 30 DAYS

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OCCUPATION: 5090

PERSONAL ATTENDANTS, COMPANIONS, AND OTHER PRIVATE HOUSEHOLD OCCUPATIONS

These people provide personal services to people in private homes. PERSONAL ATTENDANTS take care of an employer's clothing, prepare baths, run errands, pack clothing for travel, and perform similar services as requested. COMPANIONS generally work for an elderly or handicapped person or someone recovering from an illness. They do such things as help them take care of social and business affairs, accompany them on trips and outings, and entertain their clients by reading aloud or playing games. Some jobs require that workers be able to drive.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
20.0302	CLOTHING MAINTENANCE AIDE	309.674-014	PERSONAL ATTENDANT	2	2	2	30 10 90 DAYS
20.0602	COMPANION TO THE AGED	309.674-014	PERSONAL ATTENDANT	2	2	2	30 10 90 DAYS
		309.677-010	COMPANION	3	2	3	30 10 90 DAYS
20.0606	HOMEMAKER'S AIDE	309.367-010	HOUSE SITTER	3	2	2	UP 10 30 DAYS
		309.674-014	PERSONAL ATTENDANT	2	2	2	30 10 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 5100

PROTECTIVE SERVICE OCCUPATIONS

These workers provide public and private protective services. They may work as crossing guards, body guards, or security guards in buildings or armoured vehicles. Others may work as investigators or undercover agents. In public service, they may work as police detectives, enforcing laws, investigating crimes, and patrolling areas to insure public safety. Others work as firefighters or inspectors, preventing, fighting, or investigating fires.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5110

SUPERVISORS: SERVICE OCCUPATIONS, PROTECTIVE

These workers supervise and coordinate the activities of workers in protective service occupations. They may supervise the training of guards, firefighters, inspectors, detectives, or police. They may plan work activities and schedules, enforce discipline, and handle complaints. They may speak before community groups, testify in court, write reports, and perform many of the duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5111

SUPERVISORS: FIREFIGHTING AND FIRE PREVENTION OCCUPATIONS

These people supervise and direct the activities of workers who try to prevent, control, and put out fires. They also do such things as inspect homes and public buildings for fire hazards and speak before community groups to warn them of such hazards. Their work duties include training new workers, keeping work records, and writing reports. They also direct firefighting activities at fire sites.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
03.0203	RESOURCES PROTECTION AND REGULATION	452.134-010	SMOKE JUMPER SUPERVISOR	3 2 3	FOUR TO TEN YEARS
43.0202	FIRE PROTECTION ADMINISTRATION	*373.134-010	FIRE CAPTAIN	4 3 4	TWO TO FOUR YEARS
		*373.167-010	BATTALION CHIEF	5 4 4	FOUR TO TEN YEARS
		*373.167-014	CAPTAIN, FIRE-PREVENTION BUREAU	5 4 4	FOUR TO TEN YEARS
		*373.167-018	FIRE MARSHAL	4 3 3	TWO TO FOUR YEARS
43.0203	FIREFIGHTING	373.134-010	FIRE CAPTAIN	4 3 4	TWO TO FOUR YEARS
		373.167-010	BATTALION CHIEF	5 4 4	FOUR TO TEN YEARS
		373.167-014	CAPTAIN, FIRE-PREVENTION BUREAU	5 4 4	FOUR TO TEN YEARS
		373.167-018	FIRE MARSHAL	4 3 3	TWO TO FOUR YEARS
		452.134-010	SMOKE JUMPER SUPERVISOR	3 2 3	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5112

SUPERVISORS: POLICE AND DETECTIVES

These people supervise police who keep law and order, detect and prevent crimes, control traffic, and investigate criminal cases. They study assignments and determine the workers, materials, and supplies needed to complete them. They establish work procedures, assign duties, and enforce discipline. They train new officers, explain police rules and laws, and enforce safety rules. They prepare reports and recommend ways to improve work methods, and conditions. They also may perform many of the duties of the officers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
43.0101	CORRECTIONAL ADMINISTRATION	*372.137-010	CORRECTION OFFICER, HEAD	4 2 3	ONE TO TWO YEARS
		*372.167-018	JAILER, CHIEF	4 3 4	TWO TO FOUR YEARS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	372.137-010	CORRECTION OFFICER, HEAD	4 2 3	ONE TO TWO YEARS
		375.133-010	POLICE SERGEANT, PRECINCT 1	3 2 3	ONE TO TWO YEARS
		375.137-010	COMMANDER, IDENTIFICATION AND RECOR	4 3 3	FOUR TO TEN YEARS
		375.137-018	POLICE LIEUTENANT, COMMUNITY RELATI	4 3 3	FOUR TO TEN YEARS
		375.137-026	TRAFFIC SERGEANT	4 2 3	TWO TO FOUR YEARS
		375.163-010	COMMANDING OFFICER, MOTORIZED SQUAD	4 3 4	FOUR TO TEN YEARS
		375.167-010	COMMANDING OFFICER, HOMICIDE SQUAD	4 3 4	TWO TO FOUR YEARS
		375.167-014	COMMANDING OFFICER, INVESTIGATION D	4 2 3	TWO TO FOUR YEARS
		375.167-022	DETECTIVE CHIEF	4 2 3	TWO TO FOUR YEARS
		375.167-030	LAUNCH COMMANDER, HARBOR POLICE	4 2 3	ONE TO TWO YEARS
		375.167-034	POLICE CAPTAIN, PRECINCT	4 3 4	TWO TO FOUR YEARS
		375.167-038	POLICE LIEUTENANT, PATROL	4 3 4	FOUR TO TEN YEARS
		375.167-046	TRAFFIC LIEUTENANT	4 2 3	TWO TO FOUR YEARS
377.134-010	SUPERVISOR, IDENTIFICATION AND COMM	4 3 4	FOUR TO TEN YEARS		
43.0106	FORENSIC STUDIES	*375.167-010	COMMANDING OFFICER, HOMICIDE SQUAD	4 3 4	TWO TO FOUR YEARS
		*375.167-022	DETECTIVE CHIEF	4 2 3	TWO TO FOUR YEARS
43.0107	LAW ENFORCEMENT	375.133-010	POLICE SERGEANT, PRECINCT 1	3 2 3	ONE TO TWO YEARS
		375.137-010	COMMANDER, IDENTIFICATION AND RECOR	4 3 3	FOUR TO TEN YEARS
		375.137-014	DESK OFFICER	4 2 3	TWO TO FOUR YEARS
		375.137-018	POLICE LIEUTENANT, COMMUNITY RELATI	4 3 3	FOUR TO TEN YEARS
		375.137-026	TRAFFIC SERGEANT	4 2 3	TWO TO FOUR YEARS
		375.163-010	COMMANDING OFFICER, MOTORIZED SQUAD	4 3 4	FOUR TO TEN YEARS
		375.167-010	COMMANDING OFFICER, HOMICIDE SQUAD	4 3 4	TWO TO FOUR YEARS
		375.167-014	COMMANDING OFFICER, INVESTIGATION D	4 2 3	TWO TO FOUR YEARS
		375.167-022	DETECTIVE CHIEF	4 2 3	TWO TO FOUR YEARS
		375.167-030	LAUNCH COMMANDER, HARBOR POLICE	4 2 3	ONE TO TWO YEARS
		375.167-034	POLICE CAPTAIN, PRECINCT	4 3 4	TWO TO FOUR YEARS
375.167-038	POLICE LIEUTENANT, PATROL	4 3 4	FOUR TO TEN YEARS		

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OCCUPATION: 5112 SUPERVISORS; POLICE AND DETECTIVES

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		375.167-046	TRAFFIC LIEUTENANT	4 2 3	TWO TO FOUR YEARS
		377.134-010	SUPERVISOR, IDENTIFICATION AND COMM	4 3 4	FOUR TO TEN YEARS
43.0108	LAW ENFORCEMENT ADMINISTRATION	*375.137-010	COMMANDER, IDENTIFICATION AND RECOR	4 3 3	FOUR TO TEN YEARS
		*375.163-010	COMMANDING OFFICER, MOTORIZED SQUAD	4 3 4	FOUR TO TEN YEARS
		*375.167-010	COMMANDING OFFICER, HOMICIDE SQUAD	4 3 4	TWO TO FOUR YEARS
		*375.167-014	COMMANDING OFFICER, INVESTIGATION D	4 2 3	TWO TO FOUR YEARS
		*375.167-022	DETECTIVE CHIEF	4 2 3	TWO TO FOUR YEARS
		*375.167-034	POLICE CAPTAIN, PRECINCT	4 3 4	TWO TO FOUR YEARS
43.0109	SECURITY SERVICES	372.137-010	CORRECTION OFFICER, HEAD	4 2 3	ONE TO TWO YEARS
		372.167-018	JAILER, CHIEF	4 3 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5113

SUPERVISORS: GUARDS

GUARD SUPERVISORS direct the activities of guards and related workers in stores, factories, museums, prisons, and other places where people or property need protection. They plan work activities and prepare work schedules. They assign duties to workers and check their work to make sure it meets with policies and procedures. They handle complaints and may assist workers in performing their duties. They prepare work reports and may keep time and personnel records. Some are responsible for hiring, training, and firing workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	379.137-010	SUPERVISOR, ANIMAL CRUELTY INVESTIG	4	2 4	TWO TO FOUR YEARS
		379.137-014	SUPERVISOR, DOG LICENSE OFFICER	4	2 4	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	376.137-010	MANAGER, INTERNAL SECURITY	4	3 4	TWO TO FOUR YEARS
43.0109	SECURITY SERVICES	372.167-014	GUARD, CHIEF	3	2 3	ONE TO TWO YEARS
		376.137-010	MANAGER, INTERNAL SECURITY	4	3 4	TWO TO FOUR YEARS

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OCCUPATION: 5120

FIREFIGHTING AND FIRE PREVENTION OCCUPATIONS

These workers inspect buildings and wooded areas to find fire hazards and prevent fires. They may provide educational programs in fire prevention and safety. They may investigate the causes of fires, enforce fire laws, and arrest suspected arsonists. Others work as firefighters, putting out fires and rescuing people, animals, and property. They give first aid to injured individuals and drive emergency vehicles.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R N L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5122

FIRE INSPECTION AND FIRE PREVENTION OCCUPATIONS

People in these jobs inspect buildings and forest areas to detect fire hazards and recommend ways to prevent fires. They prepare reports of their inspections and may testify in court about their findings. They also investigate the causes of fires, enforce fire laws, and test firefighting equipment. They may arrest and detail people suspected of starting fires. Sometimes, they talk to school groups to warn children of the dangers of fire. They also may give first aid in emergencies and help fight fires.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
03.0203	RESOURCES PROTECTION AND REGULATION	452.167-010	FIRE WARDEN	5 3 3	TWO TO FOUR YEARS
		452.367-010	FIRE LOOKOUT	3 2 3	SIX TO 12 MONTHS
		452.367-014	FIRE RANGER	3 2 3	THREE TO SIX MONTHS
43.0201	FIRE CONTROL AND SAFETY TECHNOLOGY	373.267-010	FIRE INSPECTOR	4 3 4	TWO TO FOUR YEARS
		373.367-010	FIRE INSPECTOR	3 3 3	SIX TO 12 MONTHS
		379.687-010	FIRE-EXTINGUISHER-SPRINKLER INSPECT	3 2 2	THREE TO SIX MONTHS
43.0202	FIRE PROTECTION ADMINISTRATION	*373.267-014	FIRE MARSHAL	4 3 4	TWO TO FOUR YEARS
43.0203	FIREFIGHTING	373.267-010	FIRE INSPECTOR	4 3 4	TWO TO FOUR YEARS
		373.267-014	FIRE MARSHAL	4 3 4	TWO TO FOUR YEARS
		373.267-018	FIRE-INVESTIGATION LIEUTENANT	5 4 5	TWO TO FOUR YEARS
		379.687-010	FIRE-EXTINGUISHER-SPRINKLER INSPECT	3 2 2	THREE TO SIX MONTHS
		452.167-010	FIRE WARDEN	5 3 3	TWO TO FOUR YEARS
		452.367-010	FIRE LOOKOUT	3 2 3	SIX TO 12 MONTHS
		452.367-014	FIRE RANGER	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 5123

FIREFIGHTING OCCUPATIONS

FIREFIGHTERS work as members of a team to control and put out fires and to protect lives and property from this hazard. They use firefighting equipment such as hoses and ladders as well as chemicals, axes, crowbars, and many other tools and materials to fight fires. They may operate emergency vehicles or parachute from planes. They clean and service their equipment, take part in fire drills and training programs, and inspect areas for fire hazards. They also give first aid to the injured.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	373.363-010	FIRE CHIEF'S AIDE	4 3 3 ONE TO TWO YEARS
03.0203	RESOURCES PROTECTION AND REGULATION	452.364-014	SMOKE JUMPER	3 2 2 ONE TO TWO YEARS
		452.687-014	FOREST-FIRE FIGHTER	2 1 1 UP TO 30 DAYS
43.0203	FIREFIGHTING	373.364-010	FIRE FIGHTER	4 2 3 ONE TO TWO YEARS
		373.663-010	FIRE FIGHTER, CRASH, FIRE, AND RESC	4 2 3 SIX TO 12 MONTHS
		452.364-014	SMOKE JUMPER	3 2 2 ONE TO TWO YEARS
		452.687-014	FOREST-FIRE FIGHTER	2 1 1 UP TO 30 DAYS

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OCCUPATION: 5130

POLICE AND DETECTIVES

These workers provide public protective services. They may direct traffic, give first aid, arrest lawbreakers, investigate crimes, or patrol areas by boat, helicopter, or auto. Some work with rescue squads or become experts in firearms or fingerprints. Other workers maintain order in jails and prisons. They supervise prisoners and may settle disputes. Some work as bailiffs, serving court orders or providing security in courtrooms.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5132

POLICE AND DETECTIVES, PUBLIC SERVICE

These workers enforce law, prevent crime and protect the public. Their duties range from controlling traffic to solving criminal cases. Many specialize in a particular work area such as customs patrol, protective services, traffic safety, crime prevention, or narcotics and vice. Some work in special units such motorcycle squads, harbor or helicopter patrols, rescue squads, or youth aid services. Work duties vary.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
43.0105	CRIMINAL JUSTICE TECHNOLOGY	168.167-010	CUSTOMS PATROL OFFICER	5 3 4	FOUR TO TEN YEARS
		375.167-042	SPECIAL AGENT	5 5 5	TWO TO FOUR YEARS
		375.267-010	DETECTIVE	4 2 3	TWO TO FOUR YEARS
		375.267-014	DETECTIVE, NARCOTICS AND VICE	4 3 4	TWO TO FOUR YEARS
		375.267-018	INVESTIGATOR, NARCOTICS	4 2 3	TWO TO FOUR YEARS
		375.267-022	INVESTIGATOR, VICE	4 2 3	TWO TO FOUR YEARS
		375.267-026	POLICE INSPECTOR 1	4 3 4	TWO TO FOUR YEARS
		375.384-010	POLICE OFFICER, IDENTIFICATION AND	4 3 3	TWO TO FOUR YEARS
		377.264-010	IDENTIFICATION OFFICER	4 3 4	FOUR TO TEN YEARS
43.0107	LAW ENFORCEMENT	168.167-010	CUSTOMS PATROL OFFICER	5 3 4	FOUR TO TEN YEARS
		375.263-010	ACCIDENT-PREVENTION-SQUAD POLICE OF	4 2 3	ONE TO TWO YEARS
		375.263-014	POLICE OFFICER 1	4 2 3	ONE TO TWO YEARS
		375.263-018	STATE-HIGHWAY POLICE OFFICER	4 2 3	ONE TO TWO YEARS
		375.267-010	DETECTIVE	4 2 3	TWO TO FOUR YEARS
		375.267-014	DETECTIVE, NARCOTICS AND VICE	4 3 4	TWO TO FOUR YEARS
		375.267-018	INVESTIGATOR, NARCOTICS	4 2 3	TWO TO FOUR YEARS
		375.267-022	INVESTIGATOR, VICE	4 2 3	TWO TO FOUR YEARS
		375.267-026	POLICE INSPECTOR 1	4 3 4	TWO TO FOUR YEARS
		375.267-030	POLICE INSPECTOR 2	4 3 4	SIX TO 12 MONTHS
		375.363-010	BORDER GUARD	3 2 3	SIX TO 12 MONTHS
		375.384-010	POLICE OFFICER, IDENTIFICATION AND	4 3 3	TWO TO FOUR YEARS
		377.264-010	IDENTIFICATION OFFICER	4 3 4	FOUR TO TEN YEARS
43.0109	SECURITY SERVICES	372.363-010	PROTECTIVE OFFICER	3 2 3	THREE TO SIX MONTHS
		372.367-010	COMMUNITY SERVICE OFFICER, PATROL	3 2 3	30 TO 90 DAYS
49.0102	AIRPLANE PILOTING AND NAVIGATION (COMMER	375.163-014	PILOT, HIGHWAY PATROL	5 3 4	ONE TO TWO YEARS

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OCCUPATION: 5133

CORRECTIONAL INSTITUTION OFFICERS

CORRECTIONS OFFICERS are charged with the safekeeping of persons who have been arrested and sent to prison or jail. They keep order within the institutions, enforce rules, and may counsel inmates. They watch everything inmates do. They also assign work duties and instruct on specific tasks, search inmates and cells for items such as weapons or drugs, settle disputes between inmates and enforce discipline. Some guard inmates from a tower. Others escort and guard prisoners outside.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	195.367-026	PREPAROLE-COUNSELING AIDE	4 2 4	ONE TO TWO YEARS
		372.677-010	PATROL CONDUCTOR	3 2 2	30 TO 90 DAYS
43.0102	CORRECTIONS	*195.367-026	PREPAROLE-COUNSELING AIDE	4 2 4	ONE TO TWO YEARS
		*372.367-014	JAILER	3 2 2	THREE TO SIX MONTHS
		*372.667-018	CORRECTION OFFICER	3 2 2	THREE TO SIX MONTHS
43.0107	LAW ENFORCEMENT	375.367-010	POLICE OFFICER 2	3 1 2	SIX TO 12 MONTHS
43.0109	SECURITY SERVICES	372.367-014	JAILER	3 2 2	THREE TO SIX MONTHS
		372.567-014	GUARD, IMMIGRATION	3 2 3	THREE TO SIX MONTHS
		372.667-018	CORRECTION OFFICER	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 5134

SHERIFFS, BAILIFFS, AND OTHER LAW ENFORCEMENT OFFICERS

These people enforce laws, keep order in courts, serve summonses, and provide police and detective services in rural areas. Their duties may range from issuing parking tickets to directing the activities of a sheriff's department. They study new laws and methods to detect crimes and enforce laws. They assign duties to police, handle work problems and complaints, train new officers, and enforce discipline. They prepare budgets and reports and order equipment and supplies. They may also drive a police car, search suspects, and evict people from property.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
01.0305	GAME FARM MANAGEMENT	379.167-010	FISH AND GAME WARDEN	4 3 4	ONE TO TWO YEARS
03.0203	RESOURCES PROTECTION AND REGULATION	379.167-010	FISH AND GAME WARDEN	4 3 4	ONE TO TWO YEARS
03.0301	FISHING AND FISHERIES	379.167-010	FISH AND GAME WARDEN	4 3 4	ONE TO TWO YEARS
03.0601	WILDLIFE MANAGEMENT	379.167-010	FISH AND GAME WARDEN	4 3 4	ONE TO TWO YEARS
43.0103	CRIMINAL JUSTICE ADMINISTRATION	*377.137-018	DEPUTY, COURT	3 2 3	ONE TO TWO YEARS
		*377.363-010	DEPUTY SHERIFF, GRAND JURY	3 1 2	ONE TO TWO YEARS
		*377.667-010	BAILIFF	2 1 2	30 TO 90 DAYS
43.0105	CRIMINAL JUSTICE TECHNOLOGY	377.117-010	SHERIFF, DEPUTY, CHIEF	5 4 4	OVER 10 YEARS
		377.137-010	DEPUTY SHERIFF, COMMANDER, CIVIL DI	4 3 4	TWO TO FOUR YEARS
		377.137-014	DEPUTY SHERIFF, COMMANDER, CRIMINAL	4 3 4	FOUR TO TEN YEARS
		377.167-010	DEPUTY SHERIFF, CHIEF	4 3 4	FOUR TO TEN YEARS
43.0107	LAW ENFORCEMENT	375.587-010	PARKING ENFORCEMENT OFFICER	2 1 2	UP TO 30 DAYS
		377.117-010	SHERIFF, DEPUTY, CHIEF	5 4 4	OVER 10 YEARS
		377.137-010	DEPUTY SHERIFF, COMMANDER, CIVIL DI	4 3 4	TWO TO FOUR YEARS
		377.137-014	DEPUTY SHERIFF, COMMANDER, CRIMINAL	4 3 4	FOUR TO TEN YEARS
		377.137-018	DEPUTY, COURT	3 2 3	ONE TO TWO YEARS
		377.167-010	DEPUTY SHERIFF, CHIEF	4 3 4	FOUR TO TEN YEARS
		377.263-010	SHERIFF, DEPUTY	3 2 3	SIX TO 12 MONTHS
		377.267-010	DEPUTY UNITED STATES MARSHALL	3 2 3	SIX TO 12 MONTHS
		377.363-010	DEPUTY SHERIFF, GRAND JURY	3 1 2	ONE TO TWO YEARS
		377.667-014	DEPUTY SHERIFF, BUILDING GUARD	2 1 2	30 TO 90 DAYS
377.667-018	DEPUTY SHERIFF, CIVIL DIVISION	3 3 3	30 TO 90 DAYS		
43.0108	LAW ENFORCEMENT ADMINISTRATION	*377.117-010	SHERIFF, DEPUTY, CHIEF	5 4 4	OVER 10 YEARS
		*377.137-010	DEPUTY SHERIFF, COMMANDER, CIVIL DI	4 3 4	TWO TO FOUR YEARS
		*377.137-014	DEPUTY SHERIFF, COMMANDER, CRIMINAL	4 3 4	FOUR TO TEN YEARS
		*377.167-010	DEPUTY SHERIFF, CHIEF	4 3 4	FOUR TO TEN YEARS

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OCCUPATION: 5134 SHERIFFS, BAILIFFS AND OTHER LAW ENFORCEMENT OFFICE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
		*377.263-010	SHERIFF, DEPUTY	3 2 3 SIX TO 12 MONTHS
		*377.363-010	DEPUTY SHERIFF, GRAND JURY	3 1 2 ONE TO TWO YEARS
		*377.667-014	DEPUTY SHERIFF, BUILDING GUARD	2 1 2 30 TO 90 DAYS
		*377.667-018	DEPUTY SHERIFF, CIVIL DIVISION	3 3 3 30 TO 90 DAYS
43.0109	SECURITY SERVICES	377.667-010	BAILIFF	2 1 2 30 TO 90 DAYS

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OCCUPATION: 5140

GUARDS

These workers protect people and property. They may work at railroad or street crossings, helping traffic or children cross hazardous areas safely. They may guard buildings against fire, theft, or illegal entry. Some work as life guards or on ski patrols, insuring the safety of individuals. Others may work as undercover agents in stores, watching for shoplifters. Some may drive armoured cars or act as body guards.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 5142

CROSSING GUARDS

CROSSING GUARDS watch over street or railroad crossings to make sure that people who are driving or walking are safe. They warn people of approaching traffic and may escort them across streets or other crossings. Some direct traffic at road building projects or at school crossings. Others control railroad-crossing gates.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	372.667-022	FLAGGER	2 1 2	UP TO 30 DAYS
43.0109	SECURITY SERVICES	371.567-010	GUARD, SCHOOL-CROSSING	2 1 2	UP TO 30 DAYS
		371.667-010	CROSSING TENDER	2 2 2	30 TO 90 DAYS

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OCCUPATION: 5144

GUARDS AND POLICE, EXCEPT PUBLIC SERVICE

These people protect or guard people and property. Some investigate fires, thefts or other matters for individuals or businesses. Some drive armoured cars to transport money or valuables. Some escort people to protect them from bodily harm. Some guard business property against fire, theft, and illegal entry. Some investigate the illegal use of credit cards, investigate thefts in a store or locate missing people.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
43.0105	CRIMINAL JUSTICE TECHNOLOGY	376.267-018	INVESTIGATOR, PRIVATE	4 3 4	SIX TO 12 MONTHS
43.0107	LAW ENFORCEMENT	376.267-018	INVESTIGATOR, PRIVATE	4 3 4	SIX TO 12 MONTHS
		376.367-022	INVESTIGATOR	3 2 3	ONE TO TWO YEARS
43.0109	SECURITY SERVICES	189.167-054	SECURITY CONSULTANT	5 3 5	TWO TO FOUR YEARS
		372.267-010	SPECIAL AGENT	4 3 4	SIX TO 12 MONTHS
		372.563-010	ARMORED-CAR GUARD AND DRIVER	3 2 2	30 TO 90 DAYS
		372.567-010	ARMORED-CAR GUARD	3 2 2	30 TO 90 DAYS
		372.667-010	AIRLINE SECURITY REPRESENTATIVE	2 1 2	UP TO 30 DAYS
		372.667-014	BODYGUARD	2 1 2	30 TO 90 DAYS
		372.667-030	GATE TENDER	3 2 2	30 TO 90 DAYS
		372.667-034	GUARD, SECURITY	3 1 2	30 TO 90 DAYS
		372.667-038	MERCHANT PATROLLER	2 1 2	30 TO 90 DAYS
		376.167-010	SPECIAL AGENT-IN-CHARGE	4 3 4	TWO TO FOUR YEARS
		376.267-010	INVESTIGATOR, CASH SHORTAGE	4 3 3	ONE TO TWO YEARS
		376.267-014	INVESTIGATOR, FRAUD	4 4 3	TWO TO FOUR YEARS
		376.267-018	INVESTIGATOR, PRIVATE	4 3 4	SIX TO 12 MONTHS
		376.267-022	SHOPPING INVESTIGATOR	3 3 3	30 TO 90 DAYS
		376.367-010	ALARM INVESTIGATOR	3 1 3	30 TO 90 DAYS
		376.367-014	DETECTIVE 1	3 2 3	THREE TO SIX MONTHS
		376.367-018	HOUSE OFFICER	3 1 2	THREE TO SIX MONTHS
		376.367-022	INVESTIGATOR	3 2 3	ONE TO TWO YEARS
		376.367-026	UNDERCOVER OPERATOR	3 2 3	THREE TO SIX MONTHS
		376.667-010	BOUNCER	2 1 2	30 TO 90 DAYS
		376.667-014	DETECTIVE 2	3 2 3	THREE TO SIX MONTHS
		376.667-018	PATROLLER	2 1 2	30 TO 90 DAYS
		379.667-010	GOLF-COURSE RANGER	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 5149

PROTECTIVE SERVICE OCCUPATIONS, N.E.C.

People in these jobs try to protect people and animals from harm. They also may rescue and care for people or animals who have suffered injuries or have other problems. Some maintain order and safe conditions on school buses. Some safeguard swimmers or skiers. Some investigate cases of animal cruelty or neglect, or help relocate wild animals found in overcrowded areas. Some pick up stray or unlicensed animals and take them to a pound or shelter. These workers enforce regulations and may keep records and write reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R	M	I	TRAINING TIME
CODE	TITLE	CODE	TITLE					
00.0000	NO CIP ASSIGNED	379.263-010	ANIMAL TREATMENT INVESTIGATOR	3	1	3		SIX TO 12 MONTHS
		379.364-014	BEACH LIFEGUARD	3	2	2		THREE TO SIX MONTHS
		379.664-010	SKI PATROLLER	3	2	3		ONE TO TWO YEARS
		379.667-014	LIFEGUARD	3	1	2		THREE TO SIX MONTHS
		379.673-010	DOG CATCHER	3	1	2		30 TO 90 DAYS
01.0305	GAME FARM MANAGEMENT	379.267-010	WILDLIFE CONTROL AGENT	4	3	3		TWO TO FOUR YEARS
02.0409	RANGE MANAGEMENT	379.267-010	WILDLIFE CONTROL AGENT	4	3	3		TWO TO FOUR YEARS
03.0203	RESOURCES PROTECTION AND REGULATION	379.267-010	WILDLIFE CONTROL AGENT	4	3	3		TWO TO FOUR YEARS
03.0601	WILDLIFE MANAGEMENT	379.267-010	WILDLIFE CONTROL AGENT	4	3	3		TWO TO FOUR YEARS
43.0107	LAW ENFORCEMENT	379.263-014	PUBLIC-SAFETY OFFICER	4	3	3		TWO TO FOUR YEARS
43.0109	SECURITY SERVICES	372.667-042	SCHOOL BUS MONITOR	2	1	2		UP TO 30 DAYS
		379.367-010	SURVEILLANCE-SYSTEM MONITOR	3	1	3		UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 5200

SERVICE OCCUPATIONS, EXCEPT PRIVATE HOUSEHOLD AND PROTECTIVE

These workers provide services to people in businesses, institutions, health care facilities, and restaurants. They may provide such personal services as barbering or aiding patients with grooming. Others may assist health professionals in hospitals and dentist offices. Some work in entertainment facilities, helping with costumes or seating. Others work as cooks or waitresses in restaurants. Some workers provide cleaning and building maintenance services.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5210

FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS

Workers in these occupations prepare or serve food or beverages. They may cook food for restaurants, cafeterias, hospitals, or hotels. They may also work as short order cooks at lunch counters and fast food restaurants. Some serve customers at food counters, fountains, or in cafeteria lines. Bartenders prepare alcoholic and other drinks for customers. Workers must keep work areas clean, inventory supplies, and may keep records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5211

SUPERVISORS: FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS

These people supervise workers who prepare and serve food in restaurants, hotels, and other eating places. They plan the types and amounts of foods to be prepared, the order in which tasks should be done, and the number of workers needed. They assign duties to workers and check their work. They inspect work areas for cleanliness, and order supplies and equipment as needed. They may be responsible for hiring, training, and firing workers. They may keep time, production and stock records. They also may plan menus and help prepare foods.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L
00.0000	NO CIP ASSIGNED	319.137-026	SUPERVISOR, KOSHER DIETARY SERVICE	4	2	3 TWO TO FOUR YEARS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	310.137-010	HOST/HOYESS, RESTAURANT	4	3	4 ONE TO TWO YEARS
		310.137-018	STEWARD/STEWARDESS	4	3	4 TWO TO FOUR YEARS
		310.137-022	STEWARD/STEWARDESS, BANQUET	4	3	4 TWO TO FOUR YEARS
		310.137-026	STEWARD/STEWARDESS, RAILROAD DINING	4	3	3 TWO TO FOUR YEARS
		311.137-010	COUNTER SUPERVISOR	3	2	3 ONE TO TWO YEARS
		311.137-014	WAITER/WAITRESS, BANQUET, HEAD	4	3	3 ONE TO TWO YEARS
		311.137-018	WAITER/WAITRESS, CAPTAIN	4	2	3 ONE TO TWO YEARS
		311.137-022	WAITER/WAITRESS, HEAD	4	3	4 ONE TO TWO YEARS
		350.137-010	HEADWAITER/HEADWAITRESS	3	2	3 TWO TO FOUR YEARS
08.1102	TRANSPORTATION MARKETING	350.137-018	STEWARD/STEWARDESS, CHIEF, PASSENGE	4	3	3 TWO TO FOUR YEARS
		350.137-022	STEWARD/STEWARDESS, SECOND	4	2	3 TWO TO FOUR YEARS
20.0402	BAKING	313.131-010	BAKER, HEAD	4	3	3 TWO TO FOUR YEARS
		313.131-022	PASTRY CHEF	4	3	3 FOUR TO TEN YEARS
		315.131-014	PASTRY CHEF	4	2	3 FOUR TO TEN YEARS
20.0403	CHEF/COOK	313.131-014	CHEF	4	4	4 TWO TO FOUR YEARS
		313.131-026	SOUS CHEF	4	3	3 FOUR TO TEN YEARS
		315.131-010	COOK, CHIEF	4	2	3 TWO TO FOUR YEARS
		315.137-010	CHEF, PASSENGER VESSEL	4	3	3 TWO TO FOUR YEARS
		315.137-014	SOUS CHEF	4	3	4 TWO TO FOUR YEARS
20.0404	DIETETIC AIDE/ASSISTING	319.137-010	FOOD-SERVICE SUPERVISOR	4	3	3 ONE TO TWO YEARS
20.0405	FOOD CATERING	319.137-014	MANAGER, FLIGHT KITCHEN	4	3	3 TWO TO FOUR YEARS
		319.137-022	SUPERVISOR, COMMISSARY PRODUCTION	4	3	3 TWO TO FOUR YEARS
20.0406	FOOD SERVICE	310.137-010	HOST/HOYESS, RESTAURANT	4	3	4 ONE TO TWO YEARS
		310.137-014	KITCHEN SUPERVISOR	4	3	4 TWO TO FOUR YEARS
		310.137-018	STEWARD/STEWARDESS	4	3	4 TWO TO FOUR YEARS

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OCCUPATION: 5211 SUPERVISORS; FOOD AND BEVERAGE PREPARATION AND SERV (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
		310.137-022	STEWARD/STEWARDESS, BANQUET	4	3	4	TWO TO FOUR YEARS
		310.137-026	STEWARD/STEWARDESS, RAILROAD DINING	4	3	3	TWO TO FOUR YEARS
		311.137-010	COUNTER SUPERVISOR	3	2	3	ONE TO TWO YEARS
		311.137-014	WAITER/WAITRESS, BANQUET, HEAD	4	3	3	ONE TO TWO YEARS
		311.137-018	WAITER/WAITRESS, CAPTAIN	4	2	3	ONE TO TWO YEARS
		311.137-022	WAITER/WAITRESS, HEAD	4	3	4	ONE TO TWO YEARS
		318.137-010	KITCHEN STEWARD/STEWARDESS	4	3	4	ONE TO TWO YEARS
		319.137-010	FOOD-SERVICE SUPERVISOR	4	3	3	ONE TO TWO YEARS
		319.137-014	MANAGER, FLIGHT KITCHEN	4	3	3	TWO TO FOUR YEARS
		319.137-018	MANAGER, INDUSTRIAL CAFETERIA	4	3	3	ONE TO TWO YEARS
		319.137-022	SUPERVISOR, COMMISSARY PRODUCTION	4	3	3	TWO TO FOUR YEARS
		350.137-010	HEADWAITER/HEADWAITRESS	3	2	3	TWO TO FOUR YEARS
		350.137-014	STEWARD/STEWARDESS, CHIEF, CARGO VE	4	3	3	TWO TO FOUR YEARS
		350.137-018	STEWARD/STEWARDESS, CHIEF, PASSENGE	4	3	3	TWO TO FOUR YEARS
		350.137-022	STEWARD/STEWARDESS, SECOND	4	2	3	TWO TO FOUR YEARS
20.0408	SCHOOL FOOD SERVICE	311.137-010	COUNTER SUPERVISOR	3	2	3	ONE TO TWO YEARS
		313.131-018	COOK, HEAD, SCHOOL CAFETERIA	4	3	3	ONE TO TWO YEARS
		319.137-010	FOOD-SERVICE SUPERVISOR	4	3	3	ONE TO TWO YEARS

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OCCUPATION: 5212

BARTENDERS

BARTENDERS prepare and serve alcoholic and nonalcoholic drinks for customers in bars, lounges, restaurants, and clubs. They take drink orders from workers who serve customers and from patrons seated at the bar. They mix drinks to order, using many types of liquor plus soft drinks, fruit juices, cream, and soda water. They also serve snacks, orders supplies, collect payments, and keep bar areas clean. Those who own their bar keep records, hire, train, and direct staff.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
08.0905	WAITER/WAITRESS AND RELATED SERVICES	312.474-010	BARTENDER	3	2	2	30 TO 90 DAYS
12.0202	BARTENDING	*312.474-010	BARTENDER	3	2	2	30 TO 90 DAYS
		*312.477-010	BAR ATTENDANT	2	2	2	UP TO 30 DAYS
		*312.677-010	TAPROOM ATTENDANT	2	1	1	UP TO 30 DAYS
20.0406	FOOD SERVICE	312.474-010	BARTENDER	3	2	2	30 TO 90 DAYS
		312.477-010	BAR ATTENDANT	2	2	2	UP TO 30 DAYS
		312.677-010	TAPROOM ATTENDANT	2	1	1	UP TO 30 DAYS

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OCCUPATION: 5213

WAITERS AND WAITRESSES

WAITERS AND WAITRESSES take food and drink orders from customers in restaurants, clubs, and others eating places. They also serve the food and drink to customers, make out checks, and sometimes take payments. Some have other duties as well, such as removing dirty dishes and setting tables.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M L	
08.0905 WAITER/WAITRESS AND RELATED SERVICES	310.357-010 WINE STEWARD/STEWARDESS	3 3 3	ONE TO TWO YEARS
	311.477-018 WAITER/WAITRESS, BAR	3 2 2	30 TO 90 DAYS
	311.477-022 WAITER/WAITRESS, DINING CAR	3 2 2	30 TO 90 DAYS
	311.477-026 WAITER/WAITRESS, FORMAL	3 2 3	30 TO 90 DAYS
	311.477-030 WAITER/WAITRESS, INFORMAL	3 2 2	30 TO 90 DAYS
	311.674-018 WAITER/WAITRESS, BUFFET	2 2 1	30 TO 90 DAYS
	350.677-026 STEWARD/STEWARDESS, WINE	3 2 2	THREE TO SIX MONTHS
	350.677-030 WAITER/WAITRESS	3 1 2	30 TO 90 DAYS
	352.677-018 WAITER/WAITRESS, CLUB	2 1 2	UP TO 30 DAYS
20.0406 FOOD SERVICE	310.357-010 WINE STEWARD/STEWARDESS	3 3 3	ONE TO TWO YEARS
	311.477-018 WAITER/WAITRESS, BAR	3 2 2	30 TO 90 DAYS
	311.477-022 WAITER/WAITRESS, DINING CAR	3 2 2	30 TO 90 DAYS
	311.477-026 WAITER/WAITRESS, FORMAL	3 2 3	30 TO 90 DAYS
	311.477-030 WAITER/WAITRESS, INFORMAL	3 2 2	30 TO 90 DAYS
	311.674-018 WAITER/WAITRESS, BUFFET	2 2 1	30 TO 90 DAYS
	350.677-030 WAITER/WAITRESS	3 1 2	30 TO 90 DAYS
20.0605 EXECUTIVE HOUSEKEEPING	350.677-010 MESS ATTENDANT	2 1 2	30 TO 90 DAYS

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OCCUPATION: 5214

COOKS, EXCEPT SHORT ORDER

These people plan menus and cook foods in restaurants, hotels, hospitals, and other places where meals are served. Their duties depend upon the size and kind of establishment. In small restaurants, one cook may prepare all food with the aid of kitchen helpers. In large eating places, kitchen staffs often include several COOKS and many helpers. Each COOK usually has a specialty. HEAD COOKS or CHEFS direct kitchen staff, plan menus, and buy food supplies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0402	BAKING	313.361-010	BAKER, SECOND	4 3 3	TWO TO FOUR YEARS
		313.361-038	PIE MAKER	3 2 2	ONE TO TWO YEARS
		313.381-010	BAKER	3 2 2	ONE TO TWO YEARS
		313.381-018	COOK APPRENTICE, PASTRY	4 3 3	TWO TO FOUR YEARS
		313.381-026	COOK, PASTRY	4 3 3	TWO TO FOUR YEARS
		315.361-014	COOK, PASTRY, PSYCHIATRIC HOSPITAL	4 2 3	TWO TO FOUR YEARS
		315.381-026	SECOND COOK AND BAKER	3 2 2	ONE TO TWO YEARS
20.0403	CHEF/COOK	313.281-010	CHEF DE FROID	4 3 3	TWO TO FOUR YEARS
		313.361-014	COOK	4 3 3	TWO TO FOUR YEARS
		313.361-018	COOK APPRENTICE	4 3 3	TWO TO FOUR YEARS
		313.361-026	COOK, SPECIALTY	3 2 2	SIX TO 12 MONTHS
		313.361-030	COOK, SPECIALTY, FOREIGN FOOD	3 3 2	TWO TO FOUR YEARS
		313.361-034	GARDE MANGER	3 2 2	TWO TO FOUR YEARS
		313.381-014	BAKER, PIZZA	3 2 1	SIX TO 12 MONTHS
		313.381-022	COOK, BARBECUE	3 2 2	SIX TO 12 MONTHS
		313.381-034	ICE-CREAM CHEF	3 2 2	SIX TO 12 MONTHS
		315.361-010	COOK	3 2 2	ONE TO TWO YEARS
		315.361-018	COOK, PSYCHIATRIC HOSPITAL	4 2 3	TWO TO FOUR YEARS
		315.361-022	COOK, STATION	3 2 2	ONE TO TWO YEARS
		315.371-010	COOK, MESS	3 2 2	ONE TO TWO YEARS
		315.381-010	COOK	3 2 2	SIX TO 12 MONTHS
		315.381-014	COOK, LARDER	4 2 2	TWO TO FOUR YEARS
		315.381-018	COOK, RAILROAD	3 2 2	ONE TO TWO YEARS
		315.381-022	COOK, THIRD	3 1 2	ONE TO TWO YEARS
		315.381-026	SECOND COOK AND BAKER	3 2 2	ONE TO TWO YEARS
20.0406	FOOD SERVICE	313.381-014	BAKER, PIZZA	3 2 1	SIX TO 12 MONTHS
20.0408	SCHOOL FOOD SERVICE	313.381-030	COOK, SCHOOL CAFETERIA	3 2 2	ONE TO TWO YEARS
		315.361-010	COOK	3 2 2	ONE TO TWO YEARS

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OCCUPATION: 5215

SHORT-ORDER COOKS

SHORT-ORDER COOKS work at lunch counters, snack bars, diners, and fast food restaurants. They cook foods that take a short time to prepare, cook, and serve. They also may take food orders from customers and serve the food to them at counters or tables. In some jobs, they have other tasks such as carving meat, making coffee, and taking payments for foods.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GEO-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0403	CHEF/COOK	313.361-022	COOK, SHORT ORDER 1	3 2 3	THREE TO SIX MONTHS
		313.671-010	COOK, SHORT ORDER 2	3 2 3	30 TO 90 DAYS

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OCCUPATION: 5216

FOOD COUNTER, FOUNTAIN, AND RELATED OCCUPATIONS

These people serve foods in places that offer fast service or special food delivery. Some work in carryouts, soda fountains, and cafeterias. Others serve foods to hotel guests or hospital patients in their rooms, or to drive-up customers in their cars. They take food orders, serve food and drinks and may take payments. At soda fountains or diners, they may also cook, fix sandwiches, and prepare ice cream dishes. In cafeterias they fill trays with desserts and salads or meats and side orders.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
08.0905	WAITER/WAITRESS AND RELATED SERVICES	311.477-010	CAR HOP	2	2	2	UP TO 30 DAYS
		311.477-014	COUNTER ATTENDANT, LUNCHROOM OR COF	2	2	2	UP TO 30 DAYS
		311.477-034	WAITER/WAITRESS, ROOM SERVICE	3	2	2	30 TO 90 DAYS
		311.477-038	WAITER/WAITRESS, TAKE OUT	3	2	2	30 TO 90 DAYS
		311.674-010	CANTEEN OPERATOR	2	1	2	30 TO 90 DAYS
		311.677-014	COUNTER ATTENDANT, CAFETERIA	2	1	2	30 TO 90 DAYS
		319.474-010	FOUNTAIN SERVER	2	2	2	UP TO 30 DAYS
		355.677-010	FOOD-SERVICE WORKER, HOSPITAL	3	2	2	UP TO 30 DAYS
20.0404	DIETETIC AIDE/ASSISTING	355.677-010	FOOD-SERVICE WORKER, HOSPITAL	3	2	2	UP TO 30 DAYS
20.0406	FOOD SERVICE	311.472-010	FAST-FOODS WORKER	2	2	2	UP TO 30 DAYS
		311.477-010	CAR HOP	2	2	2	UP TO 30 DAYS
		311.477-014	COUNTER ATTENDANT, LUNCHROOM OR COF	2	2	2	UP TO 30 DAYS
		311.477-034	WAITER/WAITRESS, ROOM SERVICE	3	2	2	30 TO 90 DAYS
		311.477-038	WAITER/WAITRESS, TAKE OUT	3	2	2	30 TO 90 DAYS
		311.674-010	CANTEEN OPERATOR	2	1	2	30 TO 90 DAYS
		311.677-014	COUNTER ATTENDANT, CAFETERIA	2	1	2	30 TO 90 DAYS
		319.474-010	FOUNTAIN SERVER	2	2	2	UP TO 30 DAYS
20.0408	SCHOOL FOOD SERVICE	311.677-014	COUNTER ATTENDANT, CAFETERIA	2	1	2	30 TO 90 DAYS

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OCCUPATION: 5217

KITCHEN WORKERS, FOOD PREPARATION

These workers prepare cold cuts, seafood, salads, fruits, sandwich fillings, and other foods. They work in hotel or restaurant kitchens or other places where foods are prepared. Many specialize in preparing a certain type of food. Some bone and carve meats, for example, or remove shells from seafood. Others make coffee, tea, and hot chocolate or prepare salads, appetizers, and other cold dishes. In large restaurants, they often work under the direction of a head cook or chef.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	311.674-014	RAW SHELLFISH PREPARER	2 1 2	UP TO 30 DAYS
20.0405	FOOD CATERING	319.677-010	CATERER HELPER	3 2 2	30 TO 90 DAYS
20.0406	FOOD SERVICE	316.661-010	CARVER	3 2 2	THREE TO SIX MONTHS
		316.684-014	DELI CUTTER-SLICER	2 2 1	UP TO 30 DAYS
		317.384-010	SALAD MAKER	3 2 3	SIX TO 12 MONTHS
		317.684-010	COFFEE MAKER	2 1 1	UP TO 30 DAYS
		317.684-014	PANTRY GOODS MAKER	3 2 3	30 TO 90 DAYS
		317.684-018	SANDWICH MAKER	2 1 1	UP TO 30 DAYS
48.0402	MEATCUTTING	316.661-010	CARVER	3 2 2	THREE TO SIX MONTHS
		316.684-010	BUTCHER, CHICKEN AND FISH	2 2 1	30 TO 90 DAYS
		316.684-014	DELI CUTTER-SLICER	2 2 1	UP TO 30 DAYS
		316.684-018	MEAT CUTTER	3 2 3	ONE TO TWO YEARS
		316.684-022	MEAT-CUTTER APPRENTICE	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 5218

WAITERS' AND WAITRESSES' ASSISTANTS

These people work in restaurants and other places where food and drinks are served. They do many tasks to allow waiters, waitresses, and bartenders more time to serve customers. They clear and reset tables, for example, and carry soiled dishes to the kitchen. They clean up spilled food and broken dishes. They may serve water, bread, and butter to customers and clean coffee pots. Some help bartenders keep the bar supplied with liquor, mixes, and ice. Others carry food and equipment to steamtables and serving counters.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
08.0905	WAITER/WAITRESS AND RELATED SERVICES	311.677-010	CAFETERIA ATTENDANT	2	1	1	UP TO 30 DAYS
		311.677-018	DINING ROOM ATTENDANT	2	1	1	UP TO 30 DAYS
		319.687-010	COUNTER-SUPPLY WORKER	2	1	1	UP TO 30 DAYS
12.0202	BARTENDING	*312.687-010	BARTENDER HELPER	2	1	1	UP TO 30 DAYS
20.0406	FOOD SERVICE	311.677-010	CAFETERIA ATTENDANT	2	1	1	UP TO 30 DAYS
		311.677-018	DINING ROOM ATTENDANT	2	1	1	UP TO 30 DAYS
		312.687-010	BARTENDER HELPER	2	1	1	UP TO 30 DAYS
		319.687-010	COUNTER-SUPPLY WORKER	2	1	1	UP TO 30 DAYS
20.0408	SCHOOL FOOD SERVICE	311.677-010	CAFETERIA ATTENDANT	2	1	1	UP TO 30 DAYS
		319.687-010	COUNTER-SUPPLY WORKER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 5219

MISCELLANEOUS FOOD AND BEVERAGE PREPARATION OCCUPATIONS

These workers do routine tasks to help with food preparation and service. They carry and hand out supplies to kitchen workers, help prepare breads and pastries, wash and peel fruits and vegetables, and wash dishes and pans. They help keep kitchen areas clean and orderly. They may sweep and mop floors, scrub counters, polish silver, defrost and clean iceboxes, and set up banquet tables. Some call out food orders in a drive-in or fast-food restaurant. Some prepare food trays or stock food dispensing machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	318.587-018	SILVER WRAPPER	2 1 1	SHORT DEMONSTRATION
		319.464-010	AUTOMAT-CAR ATTENDANT	2 2 2	UP TO 30 DAYS
08.0905	WAITER/WAITRESS AND RELATED SERVICES	319.467-010	FOOD ORDER EXPEDITER	3 2 2	30 TO 90 DAYS
20.0402	BAKING	313.684-010	BAKER HELPER	2 1 1	30 TO 90 DAYS
		313.687-010	COOK HELPER, PASTRY	2 1 1	30 TO 90 DAYS
20.0405	FOOD CATERING	319.484-010	FOOD ASSEMBLER, KITCHEN	2 2 1	30 TO 90 DAYS
20.0406	FOOD SERVICE	317.687-010	COOK HELPER	2 1 1	UP TO 30 DAYS
		318.687-010	KITCHEN HELPER	2 1 1	UP TO 30 DAYS
		318.687-014	SCULLION	2 1 1	UP TO 30 DAYS
		319.464-014	VENDING-MACHINE ATTENDANT	2 2 2	UP TO 30 DAYS
		319.467-010	FOOD ORDER EXPEDITER	3 2 2	30 TO 90 DAYS
		319.484-010	FOOD ASSEMBLER, KITCHEN	2 2 1	30 TO 90 DAYS
20.0408	SCHOOL FOOD SERVICE	318.687-010	KITCHEN HELPER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5230

HEALTH SERVICE OCCUPATIONS

These workers help patients and health professionals. They may assist dentists with procedures or take x-rays. Others may perform tasks in hospitals, such as mixing drug preparations or cleaning work areas. Others may take temperatures, bathe patients, and clean patients' rooms. Some help patients get around, run errands, answer call bells, and in patients' homes, help with meals and laundry.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5232

DENTAL ASSISTANTS

DENTAL ASSISTANTS work with dentists as they examine and treat patients. They make the patients comfortable in the dental chair, prepare them for treatment, and obtain their dental records. They hand the dentist the proper tools and materials and keep patients' mouths clear by using suction or other devices. They prepare materials for making impressions and restorations, and process x-ray film. They also instruct patients in oral health and prepare instruments for sterilization. Some perform clerical duties as well.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME
17.0101	DENTAL ASSISTING	079.371-010	DENTAL ASSISTANT	4 3 4 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5233

HEALTH AIDES, EXCEPT NURSING

HEALTH AIDES work under the direction of doctors or other health specialists. Their duties range from cleaning work areas and equipment to treating patients and performing clerical tasks. They may mix drug preparations, label medicines, run errands, or assist in examining patients. Some drive an ambulance to pick up and deliver patients.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	078.687-010	LABORATORY ASSISTANT, BLOOD AND PLASMA	3	3	3	ONE TO TWO YEARS
		079.367-010	MEDICAL ASSISTANT	4	4	4	ONE TO TWO YEARS
		355.667-010	MORGUE ATTENDANT	3	2	2	THREE TO SIX MONTHS
		355.687-014	GRAVES REGISTRATION SPECIALIST	2	2	2	30 TO 90 DAYS
		913.683-010	AMBULANCE DRIVER	3	2	2	THREE TO SIX MONTHS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	359.363-010	HEALTH-EQUIPMENT SERVICER	3	2	3	SIX TO 12 MONTHS
17.0205	EMERGENCY MEDICAL TECHNOLOGY-AMBULANCE	355.374-010	AMBULANCE ATTENDANT	3	2	3	30 TO 90 DAYS
17.0301	BLOOD BANK TECHNOLOGY	079.364-022	PHLEBOTOMIST	4	2	4	30 TO 90 DAYS
17.0405	MENTAL HEALTH/HUMAN SERVICES ASSISTING	076.364-010	OCCUPATIONAL THERAPY ASSISTANT	4	3	4	ONE TO TWO YEARS
17.0406	MENTAL HEALTH/HUMAN SERVICES TECHNOLOGY	355.377-018	MENTAL-RETARDATION AIDE	4	3	3	ONE TO TWO YEARS
17.0503	MEDICAL ASSISTING	079.364-010	CHIROPRACTOR ASSISTANT	4	3	4	ONE TO TWO YEARS
		079.367-010	MEDICAL ASSISTANT	4	4	4	ONE TO TWO YEARS
		079.374-018	PODIATRIC ASSISTANT	4	2	4	ONE TO TWO YEARS
17.0505	MEDICAL OFFICE MANAGEMENT	079.367-010	MEDICAL ASSISTANT	4	4	4	ONE TO TWO YEARS
17.0507	PHARMACY ASSISTING	074.387-010	PHARMACY HELPER	3	2	3	30 TO 90 DAYS
		355.374-014	MEDICATION AIDE	3	3	3	THREE TO SIX MONTHS
17.0510	PODIATRIC ASSISTING	079.374-018	PODIATRIC ASSISTANT	4	2	4	ONE TO TWO YEARS
17.0514	CHIROPRACTIC ASSISTING	*079.364-010	CHIROPRACTOR ASSISTANT	4	3	4	ONE TO TWO YEARS
17.0602	NURSING ASSISTING	355.374-014	MEDICATION AIDE	3	3	3	THREE TO SIX MONTHS
17.0803	DANCE THERAPY	076.364-010	OCCUPATIONAL THERAPY ASSISTANT	4	3	4	ONE TO TWO YEARS
		355.377-010	OCCUPATIONAL THERAPY AIDE	4	3	4	SIX TO 12 MONTHS
17.0808	OCCUPATIONAL THERAPY ASSISTING	076.364-010	OCCUPATIONAL THERAPY ASSISTANT	4	3	4	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5233 HEALTH AIDES, EXCEPT NURSING

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
17.0809	OCCUPATIONAL THERAPY AIDE	355.377-010	OCCUPATIONAL THERAPY AIDE	4 3 4	SIX TO 12 MONTHS
17.0814	PHYSICAL THERAPY AIDE	355.354-010	PHYSICAL THERAPY AIDE	3 2 3	THREE TO SIX MONTHS
17.0815	PHYSICAL THERAPY ASSISTING	076.224-010	PHYSICAL THERAPIST ASSISTANT	4 3 4	ONE TO TWO YEARS
17.0819	RESPIRATORY THERAPY ASSISTING	355.674-022	RESPIRATORY-THERAPY AIDE	3 3 3	THREE TO SIX MONTHS
18.1030	SPORTS MEDICINE	*076.224-010	PHYSICAL THERAPIST ASSISTANT	4 3 4	ONE TO TWO YEARS
18.2201	PUBLIC HEALTH LABORATORY SCIENCE	*078.687-010	LABORATORY ASSISTANT, BLOOD AND PLA	3 3 3	ONE TO TWO YEARS
20.0406	FOOD SERVICE	520.487-014	FORMULA-ROOM WORKER	2 2 2	30 TO 90 DAYS
47.0106	MAJOR APPLIANCE REPAIR	359.363-010	HEALTH-EQUIPMENT SERVICER	3 2 3	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY ICWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5236

NURSING AIDES, ORDERLIES, AND ATTENDANTS

These workers perform a variety of duties to care for sick and injured people. They answer patients' bell calls, deliver messages, serve meals, and make beds. They also feed, bathe, and dress patients. They may take temperatures and help patients set around. Some may store or move medical supplies and clean patients' rooms. They may work in hospitals, nursing homes, or patients' homes. In patients' homes they may also clean laundry, plan meals, shop for food, and prepare meals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R N L TRAINING TIME	
CCDE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	354.677-010	BIRTH ATTENDANT	3	1	2	THREE TO SIX MONTHS
		355.674-014	NURSE AIDE	3	2	2	THREE TO SIX MONTHS
		355.674-018	ORDERLY	3	2	3	THREE TO SIX MONTHS
17.0205	EMERGENCY MEDICAL TECHNOLOGY-AMBULANCE	354.677-010	FIRST-AID ATTENDANT	3	2	3	30 TO 90 DAYS
17.0206	EMERGENCY MEDICAL TECHNOLOGY-PARAMEDIC	354.677-010	FIRST-AID ATTENDANT	3	2	3	30 TO 90 DAYS
17.0404	HOME HEALTH AIDE	354.377-014	HOME ATTENDANT	3	2	2	30 TO 90 DAYS
		355.674-014	NURSE AIDE	3	2	2	THREE TO SIX MONTHS
		355.674-018	ORDERLY	3	2	3	THREE TO SIX MONTHS
17.0405	MENTAL HEALTH/HUMAN SERVICES ASSISTING	355.377-014	PSYCHIATRIC AIDE	3	2	3	THREE TO SIX MONTHS
		355.674-014	NURSE AIDE	3	2	2	THREE TO SIX MONTHS
		355.674-018	ORDERLY	3	2	3	THREE TO SIX MONTHS
17.0408	THERAPEUTIC CHILD CARE WORK	355.377-014	PSYCHIATRIC AIDE	3	2	3	THREE TO SIX MONTHS
		355.674-018	ORDERLY	3	2	3	THREE TO SIX MONTHS
17.0601	GERIATRIC AIDE	354.377-014	HOME ATTENDANT	3	2	2	30 TO 90 DAYS
		355.377-014	PSYCHIATRIC AIDE	3	2	3	THREE TO SIX MONTHS
		355.674-014	NURSE AIDE	3	2	2	THREE TO SIX MONTHS
		355.674-018	ORDERLY	3	2	3	THREE TO SIX MONTHS
17.0602	NURSING ASSISTING	354.377-014	HOME ATTENDANT	3	2	2	30 TO 90 DAYS
		355.377-014	PSYCHIATRIC AIDE	3	2	3	THREE TO SIX MONTHS
		355.674-014	NURSE AIDE	3	2	2	THREE TO SIX MONTHS
		355.674-018	ORDERLY	3	2	3	THREE TO SIX MONTHS
20.0602	COMPANION TO THE AGED	354.377-014	HOME ATTENDANT	3	2	2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5240

CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT PRIVATE HOUSEHOLD

Workers in these occupations insure that buildings are safe and clean. They may clean rooms in businesses, hotels, or hospitals. Some do minor repair work, empty trash, and clean floors and restrooms. Others inspect buildings for pests that they exterminate. Other workers operate freight and passenger elevators, give information, and help deliver supplies and equipment as needed. Some workers supervise the work of others, keep records, and order supplies and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5241

SUPERVISORS: CLEANING AND BUILDING SERVICE WORKERS

These people supervise workers who provide cleaning, maintenance, and other building services in hotels, schools, factories, and other places. They interview, hire, train, and assign duties to workers. They issue supplies and equipment to workers, keep track of supplies on hand, and order more supplies as needed. They check work to see that it meets standards and handle service complaints. They keep time records and may recommend that workers be fired or promoted. They also plan work shifts to meet service demands.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	388.367-010	ELEVATOR STARTER	3 2 2	ONE TO TWO YEARS
01.0502	AGRICULTURAL SERVICES	389.134-010	SUPERVISOR, EXTERMINATION	4 3 3	ONE TO TWO YEARS
06.0701	HOTEL/MOTEL MANAGEMENT	329.137-010	SUPERINTENDENT, SERVICE	3 3 3	TWO TO FOUR YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	382.137-010	SUPERVISOR, MAINTENANCE	4 3 3	ONE TO TWO YEARS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	329.137-010	SUPERINTENDENT, SERVICE	3 3 3	TWO TO FOUR YEARS
08.1102	TRANSPORTATION MARKETING	350.137-026	STEWARD/STEWARDESS, THIRD	4 2 3	TWO TO FOUR YEARS
20.0604	CUSTODIAL SERVICES	381.137-010	SUPERVISOR, JANITORIAL SERVICES	4 2 3	ONE TO TWO YEARS
		382.137-010	SUPERVISOR, MAINTENANCE	4 3 3	ONE TO TWO YEARS
20.0605	EXECUTIVE HOUSEKEEPING	321.137-010	HOUSEKEEPER	3 2 3	ONE TO TWO YEARS
		321.137-014	INSPECTOR	3 2 3	ONE TO TWO YEARS
		323.137-010	SUPERVISOR, HOUSECLEANER	3 2 3	ONE TO TWO YEARS
		329.137-010	SUPERINTENDENT, SERVICE	3 3 3	TWO TO FOUR YEARS
		350.137-026	STEWARD/STEWARDESS, THIRD	4 2 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5242

MAIDS AND HOUSEMEN

MAIDS and HOUSEMEN clean rooms in hotels, motels, hospitals, dormitories, office buildings, and other such places. They also may provide services to guests or residents. They clean wards, bedrooms, baths, offices, and halls. They also deliver laundry, make beds, and replace soiled linens and drapes. They may move and arrange furniture, turn mattresses, and deliver TV sets, cribs, roll-away beds and other items to rooms. Some also may clean swimming pools, driveways, and garage areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0604	CUSTODIAL SERVICES	323.687-010	CLEANER, HOSPITAL	2 1 2	UP TO 30 DAYS
20.0605	EXECUTIVE HOUSEKEEPING	323.687-014	CLEANER, HOUSEKEEPING	2 1 2	UP TO 30 DAYS
		323.687-018	HOUSECLEANER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5244

JANITORS AND CLEANERS

JANITORS and CLEANERS keep office buildings, hospitals, stores, and apartment houses clean and in good condition. They fix leaky faucets, empty trash, service restrooms, and mow lawns. They also do minor painting and carpentry jobs, wet-mop floors, vacuum carpets, dust furniture, make minor repairs, and kill insects. They use many different tools and cleaning materials. Some do heavy cleaning work. They may wash walls and windows, move furniture, shovel snow, and remove heavy trash.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	381.687-030	PATCH WORKER	1	1	1	UP TO 30 DAYS
		389.667-010	SIXTON	2	1	2	UP TO 30 DAYS
		739.687-198	VENETIAN-BLIND CLEANER AND REPAIRER	2	1	1	UP TO 30 DAYS
		891.687-010	CHIMNEY SWEEP	2	1	1	30 TO 90 DAYS
17.0304	CLINICAL LABORATORY AIDE	381.687-022	CLEANER, LABORATORY EQUIPMENT	2	2	1	UP TO 30 DAYS
20.0604	CUSTODIAL SERVICES	381.687-014	CLEANER, COMMERCIAL OR INSTITUTIONA	1	1	1	UP TO 30 DAYS
		381.687-018	CLEANER, INDUSTRIAL	2	1	2	UP TO 30 DAYS
		381.687-026	CLEANER, WALL	1	1	1	UP TO 30 DAYS
		381.687-034	WAXER, FLOOR	1	1	1	UP TO 30 DAYS
		389.683-010	SWEEPER-CLEANER, INDUSTRIAL	1	1	1	UP TO 30 DAYS
		389.687-014	CLEANER, WINDOW	1	1	1	UP TO 30 DAYS
		891.687-018	PROJECT-CREW WORKER	2	1	1	30 TO 90 DAYS
20.0605	EXECUTIVE HOUSEKEEPING	358.687-010	CHANGE-HOUSE ATTENDANT	2	1	2	UP TO 30 DAYS
46.0401	BUILDING AND PROPERTY MAINTENANCE	382.664-010	JANITOR	3	2	3	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	952.687-010	HYDROELECTRIC-PLANT MAINTAINER	2	1	1	30 TO 90 DAYS

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OCCUPATION: 5245

ELEVATOR OPERATORS

These workers operate elevators to move people and freight between floors in a building. They may also give information and directions to passengers and help them get on and off the elevator. Some may use handtrucks to remove materials and equipment from the elevator and deliver them where they are wanted.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	388.663-010	ELEVATOR OPERATOR	2 1 2	UP TO 30 DAYS
49.0203	MATERIAL HANDLING	921.683-038	ELEVATOR OPERATOR, FREIGHT	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5246

PEST CONTROL OCCUPATIONS

Rats, mice, and common household insects, such as flies and roaches, ruin food and spread diseases. Termites eat wood and mosquitoes carry diseases. PEST CONTROLLERS protect people and property from these vermin. They inspect and treat restaurants, hotels, food stores, homes, and other places to locate and destroy pests. They use chemicals, poisonous gases, and mechanical traps to kill pests that infect buildings and surrounding areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	383.364-010	EXTERMINATOR, TERMITE	3 2 2 ONE TO TWO YEARS
		383.687-010	EXTERMINATOR HELPER, TERMITE	1 1 1 UP TO 30 DAYS
01.0502	AGRICULTURAL SERVICES	379.687-014	MOSQUITO SPRAYER	1 1 1 30 TO 90 DAYS
		383.361-010	FUMIGATOR	4 3 3 SIX TO 12 MONTHS
		389.684-010	EXTERMINATOR	3 2 2 SIX TO 12 MONTHS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	383.684-010	EXTERMINATOR HELPER	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 5249

CLEANING AND BUILDING SERVICE OCCUPATIONS, N.E.C.

People in these jobs provide services to help keep hotels, motels, lodges, office buildings, apartments, and similar places clean and comfortable. They may perform clerical, housekeeping, or maintenance duties. Some register and assign quarters to guests, collect fees, issue supplies and maintain lawns at a tourist camp, motel, or lodge. Some deliver, install, and service air-freshening devices in apartment, office, and other buildings. Some repair, replace, and clean light fixture parts in these and similar places.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	389.687-010	AIR PURIFIER SERVICER	1 1 1	UP TO 30 DAYS
		389.687-018	LIGHT-FIXTURE SERVICER	1 1 1	UP TO 30 DAYS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	329.467-010	ATTENDANT, LODGING FACILITIES	2 2 2	30 TO 90 DAYS
20.0605	EXECUTIVE HOUSEKEEPING	329.467-010	ATTENDANT, LODGING FACILITIES	2 2 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5250

PERSONAL SERVICE OCCUPATIONS

These workers perform services for others. They may work as hairdressers or barbers, cutting and styling hair or giving manicures and shaves. Others may work in some area of entertainment. They may take tickets at events, usher people to seats, aid performers with costumes, make travel arrangements, or act as tour guides. Others help travelers with luggage, provide social service assistance, or help children with grooming or play in schools, homes, or hospitals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5251

SUPERVISORS; PERSONAL SERVICE OCCUPATIONS

People in these jobs direct the activities of workers who provide personal services to customers. The workers they supervise may be CADDIES, AIRLINE ATTENDANTS, PORTERS, USHERS, or other service workers. Their work duties differ somewhat, depending on the specific job. SUPERVISORS plan work schedules, explain company policies to workers, and enforce safety and other rules. They resolve work problems and may assist workers, keep work records, order needed materials, and may hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	344.137-010	USHER, HEAD	3	2	3	THREE TO SIX MONTHS
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	343.137-010	MANAGER, CARDROOM	4	4	4	TWO TO FOUR YEARS
		359.137-010	SUPERVISOR, HOSPITALITY HOUSE	4	3	4	ONE TO TWO YEARS
06.0703	RESORT MANAGEMENT	359.137-010	SUPERVISOR, HOSPITALITY HOUSE	4	3	4	ONE TO TWO YEARS
06.0705	TRANSPORTATION MANAGEMENT	352.137-010	SUPERVISOR, AIRPLANE-FLIGHT ATTENDA	4	3	4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	187.167-058	MANAGER, BARBER OR BEAUTY SHOP	4	4	4	TWO TO FOUR YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	187.167-058	MANAGER, BARBER OR BEAUTY SHOP	4	4	4	TWO TO FOUR YEARS
		339.137-010	MANAGER, HEALTH CLUB	4	3	4	TWO TO FOUR YEARS
		358.137-010	CHECKROOM CHIEF	3	2	3	SIX TO 12 MONTHS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	324.137-010	BAGGAGE PORTER, HEAD	3	3	3	ONE TO TWO YEARS
		324.137-014	BELL CAPTAIN	3	2	2	ONE TO TWO YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	341.137-010	CADDIE SUPERVISOR	3	2	2	ONE TO TWO YEARS
		342.137-010	SUPERVISOR, RIDES	4	3	3	TWO TO FOUR YEARS
		343.137-014	SUPERVISOR, CARDROOM	4	4	4	ONE TO TWO YEARS
08.1102	TRANSPORTATION MARKETING	352.137-010	SUPERVISOR, AIRPLANE-FLIGHT ATTENDA	4	3	4	TWO TO FOUR YEARS
		352.367-014	FLIGHT ATTENDANT, RAMP	4	3	3	ONE TO TWO YEARS
08.1104	TOURISM	353.137-010	GUIDE, CHIEF AIRPORT	4	2	3	SIX TO 12 MONTHS
12.0203	CARD DEALING	*343.137-010	MANAGER, CARDROOM	4	4	4	TWO TO FOUR YEARS
		*343.137-014	SUPERVISOR, CARDROOM	4	4	4	ONE TO TWO YEARS
12.0402	BARBERING/HAIRSTYLING	187.167-058	MANAGER, BARBER OR BEAUTY SHOP	4	4	4	TWO TO FOUR YEARS
12.0403	COSMETOLOGY	187.167-058	MANAGER, BARBER OR BEAUTY SHOP	4	4	4	TWO TO FOUR YEARS
49.0106	FLIGHT ATTENDANTS	352.137-010	SUPERVISOR, AIRPLANE-FLIGHT ATTENDA	4	3	4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5251 SUPERVISORS; PERSONAL SERVICE OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
		352.367-014	FLIGHT ATTENDANT, RAMP	4 3 3 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 5252

BARBERS

BARBERS cut, trim and style hair. They may also color or straighten hair and fit hairpieces. Many BARBERS offer other services, such as hair and scalp treatments, face massages, shaves, and shampoos. As part of their jobs, they must keep their scissors, combs, and other instruments clean and in good condition. They clean their work areas and may sweep the shop as well. Those who own or manage a shop also order supplies, pay bills, keep records, and hire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
12.0402	BARBERING/HAIRSTYLING	330.371-010	BARBER	3 2 3	ONE TO TWO YEARS
		330.371-014	BARBER APPRENTICE	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 5253

HAIRDRESSERS AND COSMETOLOGISTS

The main task of HAIRDRESSEKS and COSMETOLOGISTS is to help people look attractive. They shampoo, cut, and style hair and advise on hair care. They often straighten, curl, bleach, or dye hair. They may give manicures and facials; advice on the use of makeup; and clean and style wigs and hairpieces. Most make appointments and keep records of products used by their regular customers. Those who run their own shops hire and supervise workers, keep business records, and order supplies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
12.0402	BARBERING/HAIRSTYLING	332.271-018	HAIR STYLIST	4 3 3	ONE TO TWO YEARS
12.0403	COSMETOLOGY	331.674-010	MANICURIST	2 1 2	30 TO 90 DAYS
		331.674-014	FINGERNAIL FORMER	2 1 2	30 TO 90 DAYS
		332.271-010	COSMETOLOGIST	4 3 3	ONE TO TWO YEARS
		332.271-014	COSMETOLOGIST APPRENTICE	4 3 3	ONE TO TWO YEARS
		332.271-018	HAIR STYLIST	4 3 3	ONE TO TWO YEARS
		332.361-010	WIG DRESSER	3 2 2	ONE TO TWO YEARS
		333.071-010	MAKE-UP ARTIST	4 3 3	TWO TO FOUR YEARS
		333.271-010	BODY-MAKE-UP ARTIST	3 2 2	THREE TO SIX MONTHS
		339.361-010	MORTUARY BEAUTICIAN	3 2 2	ONE TO TWO YEARS
		339.371-010	ELECTROLOGIST	3 2 3	SIX TO 12 MONTHS
		339.371-014	SCALP-TREATMENT OPERATOR	3 2 3	SIX TO 12 MONTHS
12.0404	ELECTROLYSIS	339.371-010	ELECTROLOGIST	3 2 3	SIX TO 12 MONTHS
12.0406	MAKEUP ARTISTRY	*332.271-018	HAIR STYLIST	4 3 3	ONE TO TWO YEARS
		*333.071-010	MAKE-UP ARTIST	4 3 3	TWO TO FOUR YEARS
		*333.271-010	BODY-MAKE-UP ARTIST	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 5254

ATTENDANTS: AMUSEMENT AND RECREATIONAL FACILITIES

These people provide services to people at amusement or recreational places, such as golf courses, bowling alleys, pool halls, and carnivals. They issue equipment to people and may help them schedule the use of facilities. They collect fees for games played, and inform players of rules concerning dress, conduct, or equipment. They also may repair, sell, or rent out equipment. They may provide services such as carrying golf bags or racking pool balls. They may tend rides at a carnival or fair or entice passers-by to enter side shows.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	342.357-010	WEIGHT GUESSER	3 2 3 UP TO 30 DAYS
		342.457-010	GAME ATTENDANT	3 3 3 30 TO 90 DAYS
		343.367-010	CARD PLAYER	3 2 2 THREE TO SIX MONTHS
01.0505	ANIMAL TRAINING	349.224-010	ANIMAL-RIDE MANAGER	4 3 3 ONE TO TWO YEARS
01.0507	HORSE HANDLING AND CARE	349.224-010	ANIMAL-RIDE MANAGER	4 3 3 ONE TO TWO YEARS
06.0702	RECREATIONAL ENTERPRISES MANAGEMENT	349.224-010	ANIMAL-RIDE MANAGER	4 3 3 ONE TO TWO YEARS
08.0903	MARKETING OF RECREATIONAL SERVICES	340.367-010	DESK CLERK, BOWLING FLOOR	3 3 3 30 TO 90 DAYS
		340.477-010	RACKER	2 2 1 UP TO 30 DAYS
		341.367-010	RECREATION-FACILITY ATTENDANT	4 3 3 30 TO 90 DAYS
		341.464-010	SKATE-SHOP ATTENDANT	3 2 2 30 TO 90 DAYS
		341.665-010	SKI-TOW OPERATOR	3 2 3 30 TO 90 DAYS
		341.677-010	CADDIE	2 2 2 UP TO 30 DAYS
		341.683-010	GOLF-RANGE ATTENDANT	2 1 2 UP TO 30 DAYS
		342.657-010	BARKER	3 2 3 UP TO 30 DAYS
		342.663-010	RIDE OPERATOR	3 2 2 30 TO 90 DAYS
		342.665-010	FUN-HOUSE OPERATOR	3 1 2 30 TO 90 DAYS
		342.667-010	WHARF ATTENDANT	3 2 3 30 TO 90 DAYS
		342.677-010	RIDE ATTENDANT	2 1 2 UP TO 30 DAYS
		343.467-010	CARDROOM ATTENDANT 1	3 2 2 THREE TO SIX MONTHS
		343.467-014	FLOOR ATTENDANT	2 1 1 UP TO 30 DAYS
		343.467-018	GAMBLING DEALER	3 3 3 30 TO 90 DAYS
		343.577-010	CARDROOM ATTENDANT 2	2 1 2 UP TO 30 DAYS
		349.674-010	ANIMAL-RIDE ATTENDANT	3 1 2 UP TO 30 DAYS
		349.677-014	COACH DRIVER	3 1 1 30 TO 90 DAYS
08.0904	RECREATIONAL PRODUCTS MARKETING	341.464-010	SKATE-SHOP ATTENDANT	3 2 2 30 TO 90 DAYS
12.0203	CARD DEALING	*343.367-010	CARD PLAYER	3 2 2 THREE TO SIX MONTHS
		*343.367-014	GAMBLING MONITOR	4 3 3 TWO TO FOUR YEARS

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OCCUPATION: 5254 ATTENDANTS, AMUSEMENT AND RECREATION FACILITIES (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
		*343.467-010	CARDROOM ATTENDANT 1	3 2 2 THREE TO SIX MONTHS
		*343.467-018	GAMBLING DEALER	3 3 3 30 TO 90 DAYS
31.0201	OUTDOOR RECREATION	349.224-010	ANIMAL-RIDE MANAGLR	4 3 3 ONE TO TWO YEARS
		349.674-010	ANIMAL-RIDE ATTENDANT	3 1 2 UP TO 30 DAYS
43.0109	SECURITY SERVICES	343.367-014	GAMBLING MONITOR	4 3 3 TWO TO FOUR YEARS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	341.464-010	SKATE-SHOP ATTENDANT	3 2 2 30 TO 90 DAYS

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OCCUPATION: 5255

GUIDES

GUIDES escort individuals or groups on trips, cruises, and tours. Some take people on trips to hunt, fish, ride horseback, camp, or climb mountains. They may plan these trips and instruct party members. Others escort people around a city or on tours through museums, factories, historical sites, TV stations, or other places of interest. They may make travel arrangements and often point out items of interest. In some jobs, GUIDES direct or escort patients and visitors in a hospital.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	353.667-010	ESCORT	2 1 2 UP TO 30 DAYS
		355.677-014	HOSPITAL ENTRANCE ATTENDANT	2 1 2 UP TO 30 DAYS
08.0903	MARKETING OF RECREATIONAL SERVICES	353.161-010	GUIDE, HUNTING AND FISHING	4 3 3 TWO TO FOUR YEARS
		353.164-010	GUIDE, ALPINE	4 3 4 TWO TO FOUR YEARS
		353.167-010	GUIDE, TRAVEL	4 3 4 ONE TO TWO YEARS
		353.363-010	GUIDE, SIGHTSEEING	3 2 3 THREE TO SIX MONTHS
		353.367-010	GUIDE	3 1 2 30 TO 90 DAYS
		353.367-014	GUIDE, ESTABLISHMENT	4 2 3 SIX TO 12 MONTHS
		353.367-018	GUIDE, PLANT	3 2 3 30 TO 90 DAYS
08.1104	TOURISM	353.363-010	GUIDE, SIGHTSEEING	3 2 3 THREE TO SIX MONTHS
		353.367-010	GUIDE	3 1 2 30 TO 90 DAYS
		353.367-014	GUIDE, ESTABLISHMENT	4 2 3 SIX TO 12 MONTHS
		353.367-018	GUIDE, PLANT	3 2 3 30 TO 90 DAYS
		353.367-022	PAGE	3 2 3 UP TO 30 DAYS
08.1105	TRAVEL SERVICES MARKETING	353.167-010	GUIDE, TRAVEL	4 3 4 ONE TO TWO YEARS
31.0201	OUTDOOR RECREATION	353.161-010	GUIDE, HUNTING AND FISHING	4 3 3 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5256

USHERS

USHERS take tickets, give out programs, and escort people to their seats in public places. They also may be responsible for turning away people who do not have tickets. They may work during sports events, movies, plays, concerts or other entertainment events. Sometimes they help people search for lost objects or find the restrooms or telephone.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0903	MARKETING OF RECREATIONAL SERVICES	344.667-010	TICKET TAKER	2 1 2	UP TO 30 DAYS
		344.677-010	PRESS-BOX CUSTODIAN	2 1 2	UP TO 30 DAYS
		344.677-014	USHER	2 1 1	UP TO 30 DAYS
20.0202	CHILD CARE AIDE/ASSISTING	349.677-018	CHILDREN'S ATTENDANT	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5257

PUBLIC TRANSPORTATION ATTENDANTS

People in these jobs provide services to plane, ship, bus, train passengers to help keep them comfortable and happy. They greet passengers and explain the use of safety equipment. They may serve refreshments or meals, answer questions about travel schedules, routes, and services. They may assist passengers who are ill or help feed and care for children. They may provide passengers with playing cards, pencils, pillows, or other items. Some collect tickets and direct passengers to their seats.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	910.667-014	CONDUCTOR	3	2 3	THREE TO SIX MONTHS
		910.677-010	PASSENGER SERVICE REPRESENTATIVE 2	2	1 2	UP TO 30 DAYS
08.1102	TRANSPORTATION MARKETING	350.677-022	STEWARD/STEWARDESS	3	1 2	30 TO 90 DAYS
		352.367-010	AIRPLANE-FLIGHT ATTENDANT	4	3 3	30 TO 90 DAYS
		352.377-010	HOST/HOUSTESS, GROUND	3	2 3	30 TO 90 DAYS
		352.577-010	BUS ATTENDANT	3	2 3	UP TO 30 DAYS
		352.677-010	PASSENGER SERVICE REPRESENTATIVE 1	3	2 3	30 TO 90 DAYS
		352.677-014	RECEPTIONIST, AIRLINE LOUNGE	3	2 3	30 TO 90 DAYS
		359.677-022	PASSENGER SERVICE REPRESENTATIVE	3	2 3	30 TO 90 DAYS
		910.367-026	PASSENGER REPRESENTATIVE	3	2 3	THREE TO SIX MONTHS
49.0106	FLIGHT ATTENDANTS	352.367-010	AIRPLANE-FLIGHT ATTENDANT	4	3 3	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5258

WARDROBE AND DRESSING ROOM ATTENDANTS

People in these jobs take care of performers' costumes. They issue and keep records of costumes and may help performers dress. Some direct jockeys to their dressing rooms and inspect them to be sure they have the correct colors (silks), saddle numbers, and riding equipment. Others unpack and pack entertainers' costumes. They may also clean, mend, and press costumes and arrange them on racks in the order which they will be worn on stage.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	346.667-010	JOCKEY-ROOM CUSTODIAN	2 1 2	30 TO 90 DAYS
		346.677-010	JOCKEY VALET	2 2 2	30 TO 90 DAYS
		346.677-014	RIDING-SILKS CUSTODIAN	2 1 1	UP TO 30 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	346.361-010	WARDROBE SUPERVISOR	3 2 3	TWO TO FOUR YEARS
		346.674-010	DRESSER	2 2 2	30 TO 90 DAYS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	346.361-010	WARDROBE SUPERVISOR	3 2 3	TWO TO FOUR YEARS
		346.374-010	COSTUMER ASSISTANT	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 5262

BAGGAGE PORTERS AND BELLHOPS

These workers carry baggage and perform other simple services for travelers or for hotel guests. BAGGAGE CHECKERS check in passengers' luggage at plane, bus, or other terminals. They prepare claim checks, attach them to bags, and stack baggage for loading. BAGGAGE PORTERS carry people's luggage onto trains or buses and to cabs and cars. They may also call cabs, assist disabled travelers, and direct people to ticket windows and restrooms. BELLHOPS carry bags for hotel and motel guests. They also run errands and deliver messages.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	324.477-010	PORTER, BAGGAGE	2 2 2	UP TO 30 DAYS
		324.677-010	BELIHOP	2 2 2	UP TO 30 DAYS
08.1102	TRANSPORTATION MARKETING	350.677-014	PASSENGER ATTENDANT	2 1 2	UP TO 30 DAYS
		357.477-010	BAGGAGE CHECKER	3 2 3	30 TO 90 DAYS
		357.677-010	PORTER	2 1 2	UP TO 30 DAYS

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OCCUPATION: 5263

WELFARE SERVICE AIDES

WELFARE SERVICE AIDES provide social services to help handicapped, ill, aged, or needy people. They advise and assist family members in meal planning, food preparation, child care, and health care. They also help disabled persons dress, get about, and obtain information and services. They may provide these services in people's homes, or at hospitals, nursing homes, or social service agencies. They usually work under the direction of social workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	359.573-010	BLIND AIDE	3 2 2	30 TO 90 DAYS
17.0405	MENTAL HEALTH/HUMAN SERVICES ASSISTING	359.573-010	BLIND AIDE	3 2 2	30 TO 90 DAYS
20.0204	FOSTER CARE/FAMILY CARE	309.354-010	HOMEMAKER	4 2 4	SIX TO 12 MONTHS
		359.573-010	BLIND AIDE	3 2 2	30 TO 90 DAYS
20.0606	HOMEMAKER'S AIDE	309.354-010	HOMEMAKER	4 2 4	SIX TO 12 MONTHS

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OCCUPATION: 5264

CHILD CARE WORKERS, EXCEPT PRIVATE HOUSEHOLD

These workers care for children or young adults in such places as boarding schools, orphanages, nurseries, hospitals, and playrooms. They help young children bathe, dress, and eat. They may plan recreational activities for children, instruct them in personal and health habits, and teach them to play games and sing songs. Some assist handicapped children in a school or institution. Others work in sorority or fraternity houses, where they assign rooms to residents, supervise work and study programs, and chaperone trips and social functions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	359.677-018	NURSERY SCHOOL ATTENDANT	3 2 3	THREE TO SIX MONTHS
20.0202	CHILD CARE AIDE/ASSISTING	355.674-010	CHILD-CARE ATTENDANT, SCHOOL	3 1 2	30 TO 90 DAYS
		359.677-010	ATTENDANT, CHILDREN'S INSTITUTION	3 2 3	30 TO 90 DAYS
		359.677-018	NURSERY SCHOOL ATTENDANT	3 2 3	THREE TO SIX MONTHS
		359.677-026	PLAYROOM ATTENDANT	3 2 3	30 TO 90 DAYS
20.0203	CHILD CARE MANAGEMENT	187.167-186	RESIDENCE SUPERVISOR	4 3 4	ONE TO TWO YEARS
20.0204	FOSTER CARE/FAMILY CARE	187.167-186	RESIDENCE SUPERVISOR	4 3 4	ONE TO TWO YEARS
		355.674-010	CHILD-CARE ATTENDANT, SCHOOL	3 1 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5269

PERSONAL SERVICE OCCUPATIONS, N.E.C.

People in these jobs provide a wide variety of services to people. For example, some deliver items to guests' hotel rooms. Some post scores at athletic events, or direct patrons to parking spaces at a drive-in movie. Some plan and organize activities for guests at a resort or on a ship. Some chaperone youths attending social functions. Some saddle horses for guests at a dude ranch.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	195.367-030	RECREATION AIDE	3 2 3	UP TO 30 DAYS
		339.571-010	TATIOO ARTIST	3 2 2	SIX TO 12 MONTHS
		346.677-018	SECOND	2 1 1	UP TO 30 DAYS
		349.477-010	JINRIKISHA DRIVER	2 2 2	SHORT DEMONSTRATION
		349.677-010	CABANA ATTENDANT	2 2 2	30 TO 90 DAYS
		352.167-010	DIRECTOR, SOCIAL	4 3 4	ONE TO TWO YEARS
		352.667-014	PARLOR CHAPERONE	3 1 2	UP TO 30 DAYS
		353.364-010	DUDE WRANGLER	3 2 3	30 TO 90 DAYS
		358.677-018	RESTROOM ATTENDANT	2 1 1	UP TO 30 DAYS
		359.367-010	ESCORT	3 2 3	UP TO 30 DAYS
		359.567-010	REDUCING-SALON ATTENDANT	2 2 2	UP TO 30 DAYS
		359.677-030	RESEARCH SUBJECT	3 2 3	SHORT DEMONSTRATION
		359.685-010	CREMATOR	3 2 2	30 TO 90 DAYS
		359.687-010	PALLBEARER	1 1 1	SHORT DEMONSTRATION
		366.677-010	SHOE SHINER	1 1 1	UP TO 30 DAYS
		912.364-010	AIRPORT ATTENDANT	3 2 3	SIX TO 12 MONTHS
01.0505	ANIMAL TRAINING	349.367-010	KENNEL MANAGER, DOG TRACK	3 1 2	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	359.677-014	FUNERAL ATTENDANT	2 1 2	30 TO 90 DAYS
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	324.577-010	ROOM-SERVICE CLERK	2 2 2	UP TO 30 DAYS
		324.677-014	DOORKEEPER	2 1 2	UP TO 30 DAYS
		358.677-010	CHECKROOM ATTENDANT	2 2 2	UP TO 30 DAYS
08.0903	MARKETING OF RECREATIONAL SERVICES	329.677-010	PORTER, MARINA	2 2 2	30 TO 90 DAYS
		329.683-010	ATTENDANT, CAMPGROUND	2 1 1	UP TO 30 DAYS
		343.687-010	PLASTIC-CARD GRADER, CARDROOM	2 1 2	THREE TO SIX MONTHS
		349.665-010	SCOREBOARD OPERATOR	3 2 3	UP TO 30 DAYS
		349.667-010	HOST/HOUSTESS, DANCE HALL	2 2 2	UP TO 30 DAYS
		349.667-014	HOST/HOUSTESS, HEAD	3 2 3	UP TO 30 DAYS
		349.673-010	DRIVE-IN THEATER ATTENDANT	2 1 2	UP TO 30 DAYS
		349.680-010	TICKET-DISPENSER CHANGER	3 2 2	30 TO 90 DAYS
		350.677-018	STEWARD/ STEWARDESS, BATH	2 1 1	30 TO 90 DAYS
		351.677-010	SERVICE ATTENDANT, SLEEPING CAR	2 2 2	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5269 PERSONAL SERVICE OCCUPATIONS, NOT ELSEWHERE CLASSIF (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
	352.667-010 HOST/HOUSTESS	3 2 3 30 TO 90 DAYS
	358.677-010 CHECKROOM ATTENDANT	2 2 2 UP TO 30 DAYS
	358.677-014 LOCKER-ROOM ATTENDANT	2 2 2 UP TO 30 DAYS
08.1102 TRANSPORTATION MARKETING	350.677-018 STEWARD/ STEWARDESS, BATH	2 1 1 30 TO 90 DAYS
	351.677-010 SERVICE ATTENDANT, SLEEPING CAR	2 2 2 UP TO 30 DAYS
12.0405 MASSAGE	334.374-010 MASSEUR/MASSEUSE	3 2 3 THREE TO SIX MONTHS
	334.677-010 RUBBER	2 1 2 UP TO 30 DAYS
	335.677-010 COOLING-ROOM ATTENDANT	2 1 2 UP TO 30 DAYS
	335.677-014 HOT-ROOM ATTENDANT	2 1 2 UP TO 30 DAYS
20.0202 CHILD CARE AIDE/ASSISTING	359.667-010 CHAPERON	3 2 2 UP TO 30 DAYS
20.0404 DIETETIC AIDE/ASSISTING	359.367-014 WEIGHT-REDUCTION SPECIALIST	3 2 3 30 TO 90 DAYS
31.0201 OUTDOOR RECREATION	195.367-030 RECREATION AIDE	3 2 3 UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5499

AGRICULTURAL, FORESTRY, AND FISHING OCCUPATIONS

These workers produce or maintain agricultural products and resources. They may run their own farms or manage operations for a co-operative or corporation. Others may hunt, trap, or fish. Some workers tend animals for food or recreational purposes. They may work in non-food agricultural industries, as foresters, or loggers. Some are groundskeepers or nursery workers. They may operate equipment, inspect crops, keep records, make repairs, and plan production.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5500

FARM OPERATORS AND MANAGERS

These workers own, operate, and/or manage farms that grow food and non-food products. They may plan crops and production schedules, buy equipment and supplies, keep farm records, and arrange for the sale of crops. They may hire and supervise other workers, or do some or all of the work themselves. Work may include operating farm equipment and machinery, herding and caring for animals, planting and harvesting crops, and repairing farm buildings and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5510

FARMERS: WORKING PROPRIETORS

These workers own and operate their own farms. They may grow food or non-food products, such as grains, vegetables, livestock, or horticultural products. They decide what is to be grown and the best production methods. They arrange credit, buy equipment and supplies, and plan production schedules. They may hire other workers to help with chores or do most of the work themselves. They maintain farm records and arrange for the sale of crops.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5512

GENERAL FARMERS

GENERAL FARMERS operate farms that produce more than one kind of crop. For example, they may manage a farm that produces fruits, vegetables, grains, and/or livestock. They may own the farm or manage it for a corporation, cooperative, or some other owner. They decide the kinds and amounts of crops to grow and cattle to breed, based on market conditions, weather, and the size and location of the farm. They buy farm equipment and supplies and hire and direct farm workers. They may set up and operate farm machinery, such as trucks, tractors, and harvesters. They also may arrange to sell the farm's products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
01.0302	ANIMAL PRODUCTION	421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
01.0304	CROP PRODUCTION	407.161-010	FARMER, DIVERSIFIED CROPS	4 4 4	TWO TO FOUR YEARS
		421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
02.0202	ANIMAL BREEDING AND GENETICS	421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
02.0203	ANIMAL HEALTH	421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
02.0204	ANIMAL NUTRITION	421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
02.0208	LIVESTOCK	421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS
02.0402	AGRONOMY	407.161-010	FARMER, DIVERSIFIED CROPS	4 4 4	TWO TO FOUR YEARS
		421.161-010	FARMER, GENERAL	4 4 4	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5513

CROP, VEGETABLE, FRUIT, AND TREE NUT FARMERS

These people own or rent farms that produce one or more crops. They plan and direct the planting, cultivating, harvesting, and marketing of crops. They select and purchase seed, fertilizer, and farm equipment and machinery. They determine the number and kind of workers to be hired and the land to be tilled. They hire, train, and fire farmhands. They operate and may make minor repairs to farm equipment. They also keep business records and arrange for crops to be sold and shipped.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
01.0304	CROP PRODUCTION	401.161-010	FARMER, CASH GRAIN	4	3	3	TWO TO FOUR YEARS
		402.161-010	FARMER, VEGETABLE	4	4	4	TWO TO FOUR YEARS
		403.161-010	FARMER, TREE-FRUIT-AND-NUT CROPS	4	4	4	TWO TO FOUR YEARS
		403.161-014	FARMER, VINE-FRUIT CROPS	4	4	4	TWO TO FOUR YEARS
		404.161-010	FARMER, FIELD CROP	4	4	4	TWO TO FOUR YEARS
02.0402	AGRONOMY	401.161-010	FARMER, CASH GRAIN	4	3	3	TWO TO FOUR YEARS
		402.161-010	FARMER, VEGETABLE	4	4	4	TWO TO FOUR YEARS
		404.161-010	FARMER, FIELD CROP	4	4	4	TWO TO FOUR YEARS
02.6403	HORTICULTURE SCIENCE	402.161-010	FARMER, VEGETABLE	4	4	4	TWO TO FOUR YEARS
		403.161-010	FARMER, TREE-FRUIT-AND-NUT CROPS	4	4	4	TWO TO FOUR YEARS
		403.161-014	FARMER, VINE-FRUIT CROPS	4	4	4	TWO TO FOUR YEARS

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OCCUPATION: 5514

LIVESTOCK, DAIRY, POULTRY, AND FISH FARMERS

These FARMERS breed and raise animals and arrange to sell them or their products to buyers. They may raise cats, dogs, horses, wild birds, fish or other animals. Their work duties include: feeding animals; building cages, pens, and fences; cleaning animals, equipment, and grounds; and treating animals for minor injuries or illnesses. They may milk cows, shear sheep, skin snakes or furred animals, or gather eggs or honey. They also may keep records of animals, such as their weight, diet, and breeding.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-					
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING TIME		
00.0000	NO CIP ASSIGNED	446.161-010	FISH FARMER	4	1	2	ONE	TO	TWO YEARS
		446.161-014	SHELLFISH GROWER	4	1	2	ONE	TO	TWO YEARS
01.0302	ANIMAL PRODUCTION	410.161-010	ANIMAL BREEDER	4	3	3	ONE	TO	TWO YEARS
		410.161-014	FUR FARMER	4	3	3	ONE	TO	TWO YEARS
		410.161-018	LIVESTOCK RANCHER	4	3	3	TWO	TO	FOUR YEARS
		410.161-022	HOG-CONFINEMENT-SYSTEM MANAGER	5	4	4	TWO	TO	FOUR YEARS
		411.161-010	CANARY BREEDER	4	2	3	SIX	TO	12 MONTHS
		411.161-014	POULTRY BREEDER	4	3	3	TWO	TO	FOUR YEARS
		411.161-018	POULTRY FARMER	4	3	3	TWO	TO	FOUR YEARS
		413.161-010	BEEKEEPER	3	3	3	TWO	TO	FOUR YEARS
		413.161-014	REPTILE FARMER	4	3	4	ONE	TO	TWO YEARS
		413.161-018	WORM GROWER	4	3	3	ONE	TO	TWO YEARS
01.0303	AQUACULTURE	446.161-010	FISH FARMER	4	1	2	ONE	TO	TWO YEARS
		446.161-014	SHELLFISH GROWER	4	1	2	ONE	TO	TWO YEARS
01.0305	GAME FARM MANAGEMENT	412.161-010	GAME-BIRD FARMER	4	3	3	ONE	TO	TWO YEARS
01.0502	AGRICULTURAL SERVICES	410.161-010	ANIMAL BREEDER	4	3	3	ONE	TO	TWO YEARS
		411.161-014	POULTRY BREEDER	4	3	3	TWO	TO	FOUR YEARS
01.0507	HORSE HANDLING AND CARE	*410.161-018	LIVESTOCK RANCHER	4	3	3	TWO	TO	FOUR YEARS
02.0202	ANIMAL BREEDING AND GENETICS	410.161-010	ANIMAL BREEDER	4	3	3	ONE	TO	TWO YEARS
		410.161-018	LIVESTOCK RANCHER	4	3	3	TWO	TO	FOUR YEARS
		411.161-010	CANARY BREEDER	4	2	3	SIX	TO	12 MONTHS
		411.161-014	POULTRY BREEDER	4	3	3	TWO	TO	FOUR YEARS
02.0203	ANIMAL HEALTH	410.161-018	LIVESTOCK RANCHER	4	3	3	TWO	TO	FOUR YEARS
02.0204	ANIMAL NUTRITION	410.161-018	LIVESTOCK RANCHER	4	3	3	TWO	TO	FOUR YEARS
02.0208	LIVESTOCK	410.161-010	ANIMAL BREEDER	4	3	3	ONE	TO	TWO YEARS

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OCCUPATION: 5514 LIVESTOCK, DAIRY, POULTRY AND FISH FARMERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		410.161-014	FUR FARMER	4 3 3	ONE TO TWO YEARS
		410.161-018	LIVESTOCK RANCHER	4 3 3	TWO TO FOUR YEARS
		410.161-022	HOG-CONFINEMENT-SYSTEM MANAGER	5 4 4	TWO TO FOUR YEARS
02.0209	POULTRY	411.161-010	CANARY BREEDER	4 2 3	SIX TO 12 MONTHS
		411.161-014	POULTRY BREEDER	4 3 3	TWO TO FOUR YEARS
		411.161-018	POULTRY FARMER	4 3 3	TWO TO FOUR YEARS
		412.161-010	GAME-BIRD FARMER	4 3 3	ONE TO TWO YEARS
03.0301	FISHING AND FISHERIES	446.161-010	FISH FARMER	4 1 2	ONE TO TWO YEARS
		446.161-014	SHELLFISH GROWER	4 1 2	ONE TO TWO YEARS
03.0601	WILDLIFE MANAGEMENT	412.161-010	GAME-BIRD FARMER	4 3 3	ONE TO TWO YEARS

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OCCUPATION: 5515

HORTICULTURAL SPECIALTY FARMERS

These FARMERS grow and sell nursery products, such as trees, shrubs, flowering plants, and mushrooms. They use many different types of farm tools, equipment, and machines to plant, tend, and harvest these crops. They also decide the kinds and amounts of crops to grow and select and purchase the equipment and materials needed. Some hire and supervise farm workers and helpers. They also arrange for the sale of crops and may provide customers with instructions in caring for nursery products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	405.161-014	HORTICULTURAL-SPECIALTY GROWER, FIE	4	3	3	TWO TO FOUR YEARS
		408.161-010	LANDSCAPE GARDENER	4	4	4	TWO TO FOUR YEARS
01.0304	CROP PRODUCTION	405.161-014	HORTICULTURAL-SPECIALTY GROWER, FIE	4	3	3	TWO TO FOUR YEARS
		405.161-018	HORTICULTURAL-SPECIALTY GROWER, INS	4	3	4	TWO TO FOUR YEARS
01.0603	ORNAMENTAL HORTICULTURE	405.161-010	BONSAI CULTURIST	4	3	3	TWO TO FOUR YEARS
		405.161-014	HORTICULTURAL-SPECIALTY GROWER, FIE	4	3	3	TWO TO FOUR YEARS
		405.161-018	HORTICULTURAL-SPECIALTY GROWER, INS	4	3	4	TWO TO FOUR YEARS
		405.361-010	PLANT PROPAGATOR	4	4	4	ONE TO TWO YEARS
		408.161-010	LANDSCAPE GARDENER	4	4	4	TWO TO FOUR YEARS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	405.161-018	HORTICULTURAL-SPECIALTY GROWER, INS	4	3	4	TWO TO FOUR YEARS
		405.361-010	PLANT PROPAGATOR	4	4	4	ONE TO TWO YEARS
01.0605	LANDSCAPING	408.161-010	LANDSCAPE GARDENER	4	4	4	TWO TO FOUR YEARS
01.0606	NURSERY OPERATION AND MANAGEMENT	405.161-014	HORTICULTURAL-SPECIALTY GROWER, FIE	4	3	3	TWO TO FOUR YEARS
		405.161-018	HORTICULTURAL-SPECIALTY GROWER, INS	4	3	4	TWO TO FOUR YEARS
01.0607	TURF MANAGEMENT	405.161-014	HORTICULTURAL-SPECIALTY GROWER, FIE	4	3	3	TWO TO FOUR YEARS
02.0402	AGRONOMY	405.361-010	PLANT PROPAGATOR	4	4	4	ONE TO TWO YEARS
02.0403	HORTICULTURE SCIENCE	405.161-014	HORTICULTURAL-SPECIALTY GROWER, FIE	4	3	3	TWO TO FOUR YEARS
		405.161-018	HORTICULTURAL-SPECIALTY GROWER, INS	4	3	4	TWO TO FOUR YEARS
		405.361-010	PLANT PROPAGATOR	4	4	4	ONE TO TWO YEARS

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OCCUPATION: 5520

FARM MANAGERS

These workers manage farms for corporations, cooperatives, or other owners. They may manage food-producing farms or horticultural farms that raise nursery products. They determine the products to be grown, the size of the crops, and the best production methods. They implement production plans, arranging credit, purchasing equipment and supplies, and hiring and supervising workers. They maintain farm records, conduct inspections, and arrange for products to be sold.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 5522

MANAGERS: GENERAL FARM

These people manage large farms that produce crops and livestock. They may manage farms for a corporation, cooperative, or some other owner. They are responsible for raising, harvesting, packing, and marketing the farm's products. They decide on the number of acres to plant or animals to breed, and may arrange with banks to get credit. They buy farm equipment and supplies, hire and fire workers, and prepare reports. They also supervise workers who keep payroll and other records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
01.0102	AGRICULTURAL BUSINESS	*180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
01.0104	FARM AND RANCH MANAGEMENT	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
01.0302	ANIMAL PRODUCTION	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
01.0304	CROP PRODUCTION	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
01.0701	INTERNATIONAL AGRICULTURE	*180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
02.0202	ANIMAL BREEDING AND GENETICS	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
02.0203	ANIMAL HEALTH	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
02.0204	ANIMAL NUTRITION	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
02.0208	LIVESTOCK	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS
02.0402	AGRONOMY	180.167-018	GENERAL MANAGER, FARM	5 4 4 FOUR TO TEN YEARS

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OCCUPATION: 5523

MANAGERS: CROP, VEGETABLE, FRUIT, AND TREE NUT FARMS

These people manage farms that produce one or more crops for cash sale. They may manage a farm for a commercial company or for some other owner. They plan and direct the planting, cultivating, harvesting, and selling of the crops. They buy farm equipment and supplies and keep production and other farm records. They also hire, fire, and supervise farm workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0102	AGRICULTURAL BUSINESS	*180.161-010	MANAGER, PRODUCTION, SEED CORN	5 4 4	TWO TO FOUR YEARS
01.0104	FARM AND RANCH MANAGEMENT	180.161-010	MANAGER, PRODUCTION, SEED CORN	5 4 4	TWO TO FOUR YEARS
01.0304	CROP PRODUCTION	180.161-010	MANAGER, PRODUCTION, SEED CORN	5 4 4	TWO TO FOUR YEARS
		180.167-058	SUPERINTENDENT, PRODUCTION	4 3 3	TWO TO FOUR YEARS
01.0502	AGRICULTURAL SERVICES	180.167-058	SUPERINTENDENT, PRODUCTION	4 3 3	TWO TO FOUR YEARS
01.0701	INTERNATIONAL AGRICULTURE	*180.161-010	MANAGER, PRODUCTION, SEED CORN	5 4 4	TWO TO FOUR YEARS
02.0403	HORTICULTURE SCIENCE	180.167-058	SUPERINTENDENT, PRODUCTION	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 5524

MANAGERS; LIVESTOCK, DAIRY, POULTRY, AND FISH FARMS

These people manage farms, businesses, or agencies concerned with the raising, breeding, and care of animals. This includes animal breeding companies, dairy farms, fish hatcheries, poultry farms, and game farms and preserves. They plan, develop, and implement policies and procedures for operating these concerns. They direct operations through on-site supervisors. They approve purchases of supplies and equipment, and conduct on-site inspections to make sure that rules and policies are being followed. They also prepare budgets, contracts, and management reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	180.167-030	MANAGER, FISH HATCHERY	5 3 4	TWO TO FOUR YEARS
01.0102	AGRICULTURAL BUSINESS	*180.167-026	MANAGER, DAIRY FARM	4 3 3	FOUR TO TEN YEARS
		*180.167-030	MANAGER, FISH HATCHERY	5 3 4	TWO TO FOUR YEARS
		*180.167-034	MANAGER, GAME BREEDING FARM	5 3 4	TWO TO FOUR YEARS
		*180.167-038	MANAGER, GAME PRESERVE	5 4 4	FOUR TO TEN YEARS
		*180.167-046	MANAGER, POULTRY HATCHERY	4 3 3	TWO TO FOUR YEARS
01.0104	FARM AND RANCH MANAGEMENT	180.167-026	MANAGER, DAIRY FARM	4 3 3	FOUR TO TEN YEARS
		180.167-030	MANAGER, FISH HATCHERY	5 3 4	TWO TO FOUR YEARS
		180.167-034	MANAGER, GAME BREEDING FARM	5 3 4	TWO TO FOUR YEARS
		180.167-038	MANAGER, GAME PRESERVE	5 4 4	FOUR TO TEN YEARS
		180.167-046	MANAGER, POULTRY HATCHERY	4 3 3	TWO TO FOUR YEARS
01.0302	ANIMAL PRODUCTION	180.167-026	MANAGER, DAIRY FARM	4 3 3	FOUR TO TEN YEARS
		180.167-046	MANAGER, POULTRY HATCHERY	4 3 3	TWO TO FOUR YEARS
01.0303	AQUACULTURE	180.167-030	MANAGER, FISH HATCHERY	5 3 4	TWO TO FOUR YEARS
01.0305	GAME FARM MANAGEMENT	180.167-034	MANAGER, GAME BREEDING FARM	5 3 4	TWO TO FOUR YEARS
		180.167-038	MANAGER, GAME PRESERVE	5 4 4	FOUR TO TEN YEARS
01.0502	AGRICULTURAL SERVICES	180.167-010	ARTIFICIAL-BREEDING DISTRIBUTOR	4 3 4	TWO TO FOUR YEARS
01.0701	INTERNATIONAL AGRICULTURE	*180.167-026	MANAGER, DAIRY FARM	4 3 3	FOUR TO TEN YEARS
		*180.167-030	MANAGER, FISH HATCHERY	5 3 4	TWO TO FOUR YEARS
		*180.167-034	MANAGER, GAME BREEDING FARM	5 3 4	TWO TO FOUR YEARS
		*180.167-038	MANAGER, GAME PRESERVE	5 4 4	FOUR TO TEN YEARS
		*180.167-046	MANAGER, POULTRY HATCHERY	4 3 3	TWO TO FOUR YEARS
02.0202	ANIMAL BREEDING AND GENETICS	180.167-010	ARTIFICIAL-BREEDING DISTRIBUTOR	4 3 4	TWO TO FOUR YEARS
		180.167-034	MANAGER, GAME BREEDING FARM	5 3 4	TWO TO FOUR YEARS
02.0203	ANIMAL HEALTH	180.167-026	MANAGER, DAIRY FARM	4 3 3	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5524 MANAGERS; LIVESTOCK, DAIRY, POULTRY AND FISH FARM (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
		180.167-030	MANAGER, FISH HATCHERY	5 3 4 TWO TO FOUR YEARS
		180.167-034	MANAGER, GAME BREEDING FARM	5 3 4 TWO TO FOUR YEARS
		180.167-038	MANAGER, GAME PRESERVE	5 4 4 FOUR TO TEN YEARS
		180.167-046	MANAGER, POULTRY HATCHERY	4 3 3 TWO TO FOUR YEARS
02.0204	ANIMAL NUTRITION	180.167-026	MANAGER, DAIRY FARM	4 3 3 FOUR TO TEN YEARS
		180.167-030	MANAGER, FISH HATCHERY	5 3 4 TWO TO FOUR YEARS
		180.167-034	MANAGER, GAME BREEDING FARM	5 3 4 TWO TO FOUR YEARS
		180.167-038	MANAGER, GAME PRESERVE	5 4 4 FOUR TO TEN YEARS
		180.167-046	MANAGER, POULTRY HATCHERY	4 3 3 TWO TO FOUR YEARS
02.0206	DAIRY	180.167-026	MANAGER, DAIRY FARM	4 3 3 FOUR TO TEN YEARS
02.0209	POULTRY	180.167-046	MANAGER, POULTRY HATCHERY	4 3 3 TWO TO FOUR YEARS
02.0402	AGRONOMY	180.167-010	ARTIFICIAL-BREEDING DISTRIBUTOR	4 3 4 TWO TO FOUR YEARS
02.0409	RANGE MANAGEMENT	180.167-038	MANAGER, GAME PRESERVE	5 4 4 FOUR TO TEN YEARS
03.0301	FISHING AND FISHERIES	180.167-030	MANAGER, FISH HATCHERY	5 3 4 TWO TO FOUR YEARS

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OCCUPATION: 5525

MANAGERS: HORTICULTURAL SPECIALTY FARM

These people manage farms or nurseries where trees, shrubs, flowers, vegetables and similar products are grown. They decide the types and numbers of plants to grow, and select and buy the necessary materials and equipment. They hire and assign duties to workers who plant, raise, and harvest nursery crops. They also direct office activities, such as the preparation of reports, office records, and payrolls. They may arrange contracts for the leasing of land, purchase of trees, or sale of products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
01.0104	FARM AND RANCH MANAGEMENT	180.117-010	MANAGER, CHRISTMAS-TREE FARM	5	3	4 TWO TO FOUR YEARS
		180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS
01.0603	ORNAMENTAL HORTICULTURE	180.117-010	MANAGER, CHRISTMAS-TREE FARM	5	3	4 TWO TO FOUR YEARS
		180.161-014	SUPERINTENDENT, HORTICULTURE	5	4	5 FOUR TO TEN YEARS
		180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS
01.0606	NURSERY OPERATION AND MANAGEMENT	180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS
02.0403	HORTICULTURE SCIENCE	180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS
03.0402	FOREST PRODUCTION	180.117-010	MANAGER, CHRISTMAS-TREE FARM	5	3	4 TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS
08.0502	FARM AND GARDEN SUPPLIES MARKETING	180.167-042	MANAGER, NURSERY	4	4	4 TWO TO FOUR YEARS

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OCCUPATION: 5600

OTHER AGRICULTURAL AND RELATED OCCUPATIONS

These workers produce, cultivate, and/or harvest agricultural products. They may work as food producers on farms and ranches or as fishers and hunters. Others may work with non-food agricultural products, maintaining grounds, harvesting timber, or trapping for furs. Workers may care for animals for food, recreational, or scientific purposes. Others may grade or inspect agricultural products, operate equipment and machinery, or maintain irrigation systems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 5610

FARM OCCUPATIONS, EXCEPT MANAGERIAL

These workers plant and tend crops, care for animals, operate and repair farm machinery, and do general farm chores. They may breed, raise, and harvest marine animals in fisheries and shellfish beds. They may plant, cultivate, and harvest fruits, nuts, grains, or vegetables. Others care for livestock or milk cows. Workers care for farm buildings and machinery, maintain fences and irrigation canals, and drive farm equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5611

SUPERVISORS: FARM WORKERS

These people supervise workers who plant, cultivate, and harvest crops and attend livestock. They plan and direct farm work based on their knowledge of farm procedures, workers, and equipment. They hire and assign duties to workers, enforce safety and other rules, and may perform farm work. They provide workers with required tools and equipment, and may arrange work contracts, housing, and transportation for them. They also may prepare payrolls and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	410.131-014 SUPERVISOR, ARTIFICIAL BREEDING RAN	4 3 3 TWO TO FOUR YEARS
	410.131-018 SUPERVISOR, DAIRY FARM	4 3 3 TWO TO FOUR YEARS
	446.133-010 SUPERVISOR, SHELLFISH FARMING	4 2 3 ONE TO TWO YEARS
	446.134-010 SUPERVISOR, FISH HATCHERY	4 2 3 TWO TO FOUR YEARS
01.0102 AGRICULTURAL BUSINESS	*180.167-050 MIGRANT LEADER	3 2 2 TWO TO FOUR YEARS
01.0206 SOIL AND WATER MECHANICAL PRACTICES	409.137-010 IRRIGATOR, HEAD	3 2 3 SIX TO 12 MONTHS
01.0302 ANIMAL PRODUCTION	180.167-022 GROUP LEADER	3 2 2 TWO TO FOUR YEARS
	410.131-010 BARN BOSS	4 3 3 TWO TO FOUR YEARS
	410.131-014 SUPERVISOR, ARTIFICIAL BREEDING RAN	4 3 3 TWO TO FOUR YEARS
	410.131-018 SUPERVISOR, DAIRY FARM	4 3 3 TWO TO FOUR YEARS
	410.131-022 SUPERVISOR, STOCK RANCH	4 3 3 TWO TO FOUR YEARS
	410.134-014 SUPERVISOR, WOOL-SHEARING	4 3 3 TWO TO FOUR YEARS
	410.137-010 CAMP TENDER	3 2 3 ONE TO TWO YEARS
	410.137-014 TOP SCREW	4 3 3 TWO TO FOUR YEARS
	411.131-010 SUPERVISOR, POULTRY FARM	4 2 3 TWO TO FOUR YEARS
	411.137-010 SUPERVISOR, POULTRY HATCHERY	4 2 3 ONE TO TWO YEARS
01.0303 AQUACULTURE	446.133-010 SUPERVISOR, SHELFISH FARMING	4 2 3 ONE TO TWO YEARS
	446.134-010 SUPERVISOR, FISH HATCHERY	4 2 3 TWO TO FOUR YEARS
01.0304 CROP PRODUCTION	180.167-014 FIELD SUPERVISOR, SEED PRODUCTION	5 4 4 ONE TO TWO YEARS
	180.167-022 GROUP LEADER	3 2 2 TWO TO FOUR YEARS
	180.167-050 MIGRANT LEADER	3 2 2 TWO TO FOUR YEARS
	401.137-010 SUPERVISOR, AREA	4 3 3 TWO TO FOUR YEARS
	401.137-014 SUPERVISOR, DETASSLING CREW	3 2 3 ONE TO TWO YEARS
	402.131-010 SUPERVISOR, VEGETABLE FARMING	4 2 3 TWO TO FOUR YEARS
	403.131-010 SUPERVISOR, TREE-FRUIT-AND-NUT FARM	4 3 4 TWO TO FOUR YEARS
	403.131-014 SUPERVISOR, VINE-FRUIT FARMING	4 3 3 ONE TO TWO YEARS
	404.131-010 SUPERVISOR, FIELD-CROP FARMING	4 3 3 TWO TO FOUR YEARS
	404.131-014 SUPERVISOR, SHED WORKERS	4 3 3 TWO TO FOUR YEARS
	405.131-010 SUPERVISOR, HORTICULTURAL-SPECIALTY	4 3 4 TWO TO FOUR YEARS

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OCCUPATION: 5611 SUPERVISORS; FARM WORKERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		407.131-010	SUPERVISOR, DIVERSIFIED CROPS	4	3	4	TWO TO FOUR YEARS
		408.137-010	SUPERVISOR, INSECT AND DISEASE INSP	4	4	4	ONE TO TWO YEARS
		409.117-010	HARVEST CONTRACTOR	4	4	4	TWO TO FOUR YEARS
		409.131-010	SUPERVISOR, PICKING CREW	4	3	4	TWO TO FOUR YEARS
		409.137-014	ROW BOSS, HOEING	4	3	4	TWO TO FOUR YEARS
01.0305	GAME FARM MANAGEMENT	412.131-010	SUPERVISOR, GAME FARM	4	3	4	SIX TO 12 MONTHS
01.0502	AGRICULTURAL SERVICES	180.167-014	FIELD SUPERVISOR, SEED PRODUCTION	5	4	4	ONE TO TWO YEARS
		180.167-022	GROUP LEADER	3	2	2	TWO TO FOUR YEARS
		180.167-050	MIGRANT LEADER	3	2	2	TWO TO FOUR YEARS
		408.137-010	SUPERVISOR, INSECT AND DISEASE INSP	4	4	4	ONE TO TWO YEARS
		409.117-010	HARVEST CONTRACTOR	4	4	4	TWO TO FOUR YEARS
		409.131-010	SUPERVISOR, PICKING CREW	4	3	4	TWO TO FOUR YEARS
		410.134-014	SUPERVISOR, WOOL-SHEARING	4	3	3	TWO TO FOUR YEARS
01.0507	HORSE HANDLING AND CARE	*410.131-010	BARN BOSS	4	3	3	TWO TO FOUR YEARS
		*410.131-022	SUPERVISOR, STOCK RANCH	4	3	3	TWO TO FOUR YEARS
01.0603	ORNAMENTAL HORTICULTURE	405.131-010	SUPERVISOR, HORTICULTURAL-SPECIALTY	4	3	4	TWO TO FOUR YEARS
		405.137-010	SUPERVISOR, ROSE-GRADING	4	3	4	TWO TO FOUR YEARS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	405.131-010	SUPERVISOR, HORTICULTURAL-SPECIALTY	4	3	4	TWO TO FOUR YEARS
01.0606	NURSERY OPERATION AND MANAGEMENT	405.131-010	SUPERVISOR, HORTICULTURAL-SPECIALTY	4	3	4	TWO TO FOUR YEARS
01.0701	INTERNATIONAL AGRICULTURE	*180.167-050	MIGRANT LEADER	3	2	2	TWO TO FOUR YEARS
02.0202	ANIMAL BREEDING AND GENETICS	410.131-014	SUPERVISOR, ARTIFICIAL BREEDING RAN	4	3	3	TWO TO FOUR YEARS
		412.131-010	SUPERVISOR, GAME FARM	4	3	4	SIX TO 12 MONTHS
02.0203	ANIMAL HEALTH	410.131-010	BARN BOSS	4	3	3	TWO TO FOUR YEARS
		410.131-014	SUPERVISOR, ARTIFICIAL BREEDING RAN	4	3	3	TWO TO FOUR YEARS
		410.131-018	SUPERVISOR, DAIRY FARM	4	3	3	TWO TO FOUR YEARS
		412.131-010	SUPERVISOR, GAME FARM	4	3	4	SIX TO 12 MONTHS
02.0204	ANIMAL NUTRITION	410.131-010	BARN BOSS	4	3	3	TWO TO FOUR YEARS
		410.131-014	SUPERVISOR, ARTIFICIAL BREEDING RAN	4	3	3	TWO TO FOUR YEARS
		410.131-018	SUPERVISOR, DAIRY FARM	4	3	3	TWO TO FOUR YEARS
		412.131-010	SUPERVISOR, GAME FARM	4	3	4	SIX TO 12 MONTHS
02.0206	DAIRY	410.131-018	SUPERVISOR, DAIRY FARM	4	3	3	TWO TO FOUR YEARS

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OCCUPATION: 5611 SUPERVISORS; FARM WORKERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
02.0208	LIVESTOCK	410.131-014	SUPERVISOR, ARTIFICIAL BREEDING RAN	4 3 3	TWO TO FOUR YEARS
		410.131-022	SUPERVISOR, STOCK RANCH	4 3 3	TWO TO FOUR YEARS
		410.134-014	SUPERVISOR, WOOL-SHEARING	4 3 3	TWO TO FOUR YEARS
		410.137-010	CAMP TENDER	3 2 3	ONE TO TWO YEARS
02.0209	POULTRY	410.137-014	TOP SCREW	4 3 3	TWO TO FOUR YEARS
		411.131-010	SUPERVISOR, POULTRY FARM	4 2 3	TWO TO FOUR YEARS
02.0209	POULTRY	411.137-010	SUPERVISOR, POULTRY HATCHERY	4 2 3	ONE TO TWO YEARS
		180.167-014	FIELD SUPERVISOR, SEED PRODUCTION	5 4 4	ONE TO TWO YEARS
02.0402	AGRONOMY	402.131-010	SUPERVISOR, VEGETABLE FARMING	4 2 3	TWO TO FOUR YEARS
		404.131-010	SUPERVISOR, FIELD-CROP FARMING	4 3 3	TWO TO FOUR YEARS
		407.131-010	SUPERVISOR, DIVERSIFIED CROPS	4 3 4	TWO TO FOUR YEARS
02.0403	HORTICULTURE SCIENCE	402.131-010	SUPERVISOR, VEGETABLE FARMING	4 2 3	TWO TO FOUR YEARS
		403.131-010	SUPERVISOR, TREE-FRUIT-AND-NUT FARM	4 3 4	TWO TO FOUR YEARS
		403.131-014	SUPERVISOR, VINE-FRUIT FARMING	4 3 3	ONE TO TWO YEARS
		405.131-010	SUPERVISOR, HORTICULTURAL-SPECIALTY	4 3 4	TWO TO FOUR YEARS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	408.137-010	SUPERVISOR, INSECT AND DISEASE INSP	4 4 4	ONE TO TWO YEARS
02.0409	RANGE MANAGEMENT	410.137-010	CAMP TENDER	3 2 3	ONE TO TWO YEARS
		410.137-014	TOP SCREW	4 3 3	TWO TO FOUR YEARS
02.0501	SOIL SCIENCES	409.137-010	IRRIGATOR, HEAD	3 2 3	SIX TO 12 MONTHS
03.0301	FISHING AND FISHERIES	446.133-010	SUPERVISOR, SHELLFISH FARMING	4 2 3	ONE TO TWO YEARS
		446.134-010	SUPERVISOR, FISH HATCHERY	4 2 3	TWO TO FOUR YEARS

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OCCUPATION: 5612

GENERAL FARM WORKERS

These people do general farm work. They work with their hands and many kinds of farm equipment. They may drive tractors, trucks, or other farm machines. They plant, tend, harvest, and store crops and care for livestock and poultry. They maintain farm machinery and repair farm buildings, fences, and other structures. They may haul livestock and produce to market. They thin and weed plants, transplant seedlings, irrigate fields, prune trees and shrubs. They also may treat animals for minor injuries and clean barns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0204	AGRICULTURAL POWER MACHINERY	407.663-010	FARMWORKER, DIVERSIFIED CROPS 1	3 2 3	THREE TO SIX MONTHS
		421.683-010	FARMWORKER, GENERAL 1	3 2 3	SIX TO 12 MONTHS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	421.687-010	FARMWORKER, GENERAL 2	2 1 1	UP TO 30 DAYS
01.0302	ANIMAL PRODUCTION	421.683-010	FARMWORKER, GENERAL 1	3 2 3	SIX TO 12 MONTHS
		421.687-010	FARMWORKER, GENERAL 2	2 1 1	UP TO 30 DAYS
01.0304	CROP PRODUCTION	407.663-010	FARMWORKER, DIVERSIFIED CROPS 1	3 2 3	THREE TO SIX MONTHS
		407.687-010	FARMWORKER, DIVERSIFIED CROPS 2	1 1 1	UP TO 30 DAYS
		421.683-010	FARMWORKER, GENERAL 1	3 2 3	SIX TO 12 MONTHS
		421.687-010	FARMWORKER, GENERAL 2	2 1 1	UP TO 30 DAYS

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OCCUPATION: 5613

FIELD CROP AND VEGETABLE FARM WORKERS (HAND)

These workers plant, care for, harvest, and store field and vegetable crops by hand. Often, they work as part of a crew of field workers. They do such things as plant roots and bulbs, transplant seedlings, and set up and string bean poles. They may pick crops and carry armloads of them to collection points. They may load and unload trucks and carry supplies to workers in the field. They also may repair fences and buildings and clean farm machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0304	CROP PRODUCTION	401.687-010	FARMWORKER, GRAIN 2	1 1 1	UP TO 30 DAYS
		402.687-010	FARMWORKER, VEGETABLE 2	1 1 1	UP TO 30 DAYS
		402.687-014	HARVEST WORKER, VEGETABLE	1 1 1	SHORT DEMONSTRATION
		404.686-010	SEED CUTTER	1 1 1	SHORT DEMONSTRATION
		404.687-010	FARMWORKER, FIELD CROP 2	1 1 1	UP TO 30 DAYS
		404.687-014	HARVEST WORKER, FIELD CROP	1 1 1	SHORT DEMONSTRATION
01.0502	AGRICULTURAL SERVICES	409.667-010	AIRPLANE-PILOT HELPER	2 2 2	30 TO 90 DAYS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	409.687-018	WEEDER-THINNER	1 1 1	SHORT DEMONSTRATION

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OCCUPATION: 5614

ORCHARD AND VINEYARD AND RELATED WORKERS (HAND)

These people work on farms that produce fruit or nut crops. They do much of the physical labor on these farms. They plant, cultivate, spray, prune, and harvest crops. They may lay irrigation pipes to supply water to the crops or light torches to heat them in cold weather. They also may do such things as repair fences and buildings, load and unload trucks, clean and adjust farm machinery, and clear and burn brush. Some work from ladders or platforms or crawl between plant rows to pick ripe fruits or nuts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0304 CROP PRODUCTION		403.687-010	FARMWORKER, FRUIT 2	2 1 2	UP TO 30 DAYS
		403.687-014	FIG CAPRIFIER	2 1 2	UP TO 30 DAYS
		403.687-018	HARVEST WORKER, FRUIT	1 1 1	UP TO 30 DAYS
		403.687-022	VINE PRUNER	1 1 1	SHORT DEMONSTRATION
		408.684-014	SPRAYER, HAND	3 2 2	THREE TO SIX MONTHS
01.0602 ARBORICULTURE		408.684-014	SPRAYER, HAND	3 2 2	THREE TO SIX MONTHS
		408.684-018	TREE PRUNER	3 2 3	THREE TO SIX MONTHS
01.0604 GREENHOUSE OPERATION AND MANAGEMENT		408.684-014	SPRAYER, HAND	3 2 2	THREE TO SIX MONTHS
01.0605 LANDSCAPING		408.684-014	SPRAYER, HAND	3 2 2	THREE TO SIX MONTHS
01.0606 NURSERY OPERATION AND MANAGEMENT		408.684-014	SPRAYER, HAND	3 2 2	THREE TO SIX MONTHS
01.0607 TURF MANAGEMENT		408.684-014	SPRAYER, HAND	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 5615

IRRIGATION WORKERS

IRRIGATION WORKERS work on farms in areas that do not get much rain all during the year. They water crops by controlling the flow of water from irrigation ditches to the fields. They also set up and operate sprinkling systems that pump water through pipes spread on the ground. After a field area is watered, they move the pipes to the next section or field to be watered. These workers also do such things as shovel dirt to fill or clear holes, build levees to keep water from overflowing, and grease and oil pumping equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0206	SOIL AND WATER MECHANICAL PRACTICES	409.684-010	IRRIGATOR, VALVE PIPE	2 1 1	30 TO 90 DAYS
		409.685-014	IRRIGATOR, SPRINKLING SYSTEM	2 1 2	UP TO 30 DAYS
		409.687-014	IRRIGATOR, GRAVITY FLOW	2 1 1	UP TO 30 DAYS
01.0304	CROP PRODUCTION	409.684-010	IRRIGATOR, VALVE PIPE	2 1 1	30 TO 90 DAYS
		409.685-014	IRRIGATOR, SPRINKLING SYSTEM	2 1 2	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5616

FARM MACHINERY OPERATORS

These people operate machinery to plant, cultivate, spray, and harvest crops. This machinery includes harvesters, threshers, pruning saws, and similar farm equipment. They attach plows or other implements to tractors or other vehicles and drive the machinery in the fields. They may repair and adjust the machinery. They also may perform other farm tasks, such as loading and unloading materials, husking and shelling corn, or hoeing row crops.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	429.685-010	GINNER	2	1	2	30 TO 90 DAYS
01.0204	AGRICULTURAL POWER MACHINERY	405.683-014	GROWTH-MEDIA MIXER, MUSHROOM	3	2	2	30 TO 90 DAYS
		408.662-010	HYDRO-SPRAYER OPERATOR	3	2	2	THREE TO SIX MONTHS
		409.683-010	FARM-MACHINE OPERATOR	3	2	2	30 TO 90 DAYS
		409.683-014	FIELD HAULER	2	2	2	30 TO 90 DAYS
		409.685-010	FARM-MACHINE TENDER	2	1	2	UP TO 30 DAYS
		409.686-010	FARMWORKER, MACHINE	1	1	1	SHORT DEMONSTRATION
		429.685-010	GINNER	2	1	2	30 TO 90 DAYS
		429.685-014	THRESHER, BROOMCORN	2	1	1	UP TO 30 DAYS
01.0304	CROP PRODUCTION	401.683-010	FARMWORKER, GRAIN 1	3	1	2	THREE TO SIX MONTHS
		401.683-014	FARMWORKER, RICE	3	2	2	SIX TO 12 MONTHS
		402.663-010	FARMWORKER, VEGETABLE 1	3	2	3	THREE TO SIX MONTHS
		403.683-010	FARMWORKER, FRUIT 1	3	2	3	SIX TO 12 MONTHS
		404.663-010	FARMWORKER, FIELD CROP 1	3	2	3	SIX TO 12 MONTHS
		404.685-010	SEED-POTATO ARRANGER	1	1	1	UP TO 30 DAYS
		405.683-014	GROWTH-MEDIA MIXER, MUSHROOM	3	2	2	30 TO 90 DAYS
		409.683-010	FARM-MACHINE OPERATOR	3	2	2	30 TO 90 DAYS
		409.683-014	FIELD HAULER	2	2	2	30 TO 90 DAYS
		409.685-010	FARM-MACHINE TENDER	2	1	2	UP TO 30 DAYS
		409.686-010	FARMWORKER, MACHINE	1	1	1	SHORT DEMONSTRATION
		429.685-014	THRESHER, BROOMCORN	2	1	1	UP TO 30 DAYS
01.0502	AGRICULTURAL SERVICES	409.683-014	FIELD HAULER	2	2	2	30 TO 90 DAYS
01.0605	LANDSCAPING	408.662-010	HYDRO-SPRAYER OPERATOR	3	2	2	THREE TO SIX MONTHS

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OCCUPATION: 5617

LIVESTOCK WORKERS

These workers help in the breeding, care, and marketing of livestock. They feed, clean, and groom animals and maintain farm buildings and equipment. They may vaccinate animals and treat them for minor injuries. They may herd animals to pastures or shipping points. They may help birth animals, brand them and keep their breeding or feeding records. They may milk cows, collect eggs, or do similar tasks. Much of their time may be spent washing pens, stalls, and other areas where animals are housed.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	410.687-010	FLEECE TIER	2	1	1	UP TO 30 DAYS
		410.687-018	PELTER	2	2	2	UP TO 30 DAYS
		529.686-030	EGG WASHER, MACHINE	1	1	1	SHORT DEMONSTRATION
		920.687-202	WORM PACKER	1	1	1	SHORT DEMONSTRATION
01.0302	ANIMAL PRODUCTION	410.364-010	LAMBER	3	1	2	30 TO 90 DAYS
		410.664-010	FARMWORKER, LIVESTOCK	3	3	3	THREE TO SIX MONTHS
		410.674-014	COWPUNCHER	2	2	2	THREE TO SIX MONTHS
		410.674-018	LIVESTOCK-YARD ATTENDANT	3	2	2	UP TO 30 DAYS
		410.684-010	FARMWORKER, DAIRY	2	1	1	THREE TO SIX MONTHS
		410.684-014	SHEEP SHEARER	2	1	1	30 TO 90 DAYS
		410.685-010	MILKER, MACHINE	2	1	1	UP TO 30 DAYS
		410.687-010	FLEECE TIER	2	1	1	UP TO 30 DAYS
		410.687-014	GOAT HERDER	2	1	1	30 TO 90 DAYS
		410.687-018	PELTER	2	2	2	UP TO 30 DAYS
		410.687-022	SHEEP HERDER	2	1	1	30 TO 90 DAYS
		411.364-014	POULTRY TENDER	3	2	2	SIX TO 12 MONTHS
		411.584-010	FARMWORKER, POULTRY	2	2	2	30 TO 90 DAYS
		411.684-010	CAPONIZER	2	1	1	UP TO 30 DAYS
		411.684-014	POULTRY VACCINATOR	2	1	1	UP TO 30 DAYS
		411.687-010	CLICK GRADER	2	2	2	UP TO 30 DAYS
		411.687-014	CHICK SEXER	2	1	2	THREE TO SIX MONTHS
		411.687-018	LABORER, POULTRY FARM	2	1	2	UP TO 30 DAYS
		411.687-022	LABORER, POULTRY HATCHERY	2	2	2	UP TO 30 DAYS
		411.687-026	POULTRY DEBEAKER	2	1	1	30 TO 90 DAYS
		413.687-010	WORM PICKER	2	1	1	SHORT DEMONSTRATION
		413.687-014	WORM-FARM LABORER	2	1	1	SHORT DEMONSTRATION
01.0305	GAME FARM MANAGEMENT	412.684-010	GAME-FARM HELPER	2	2	2	30 TO 90 DAYS
01.0502	AGRICULTURAL SERVICES	410.684-014	SHEEP SHEARER	2	1	1	30 TO 90 DAYS
		411.684-014	POULTRY VACCINATOR	2	1	1	UP TO 30 DAYS
		419.224-010	HORSE TRAINER	3	2	2	TWO TO FOUR YEARS
01.0505	ANIMAL TRAINING	410.674-014	COWPUNCHER	2	2	2	THREE TO SIX MONTHS

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OCCUPATION: 5617 LIVESTOCK WORKERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		419.224-010	HORSE TRAINER	3 2 2	TWO TO FOUR YEARS
01.0507	HORSE HANDLING AND CARE	*419.224-010	HORSE TRAINER	3 2 2	TWO TO FOUR YEARS
02.0209	POULTRY	411.364-014	POULTRY TENDER	3 2 2	SIX TO 12 MONTHS
03.0601	WILDLIFE MANAGEMENT	412.684-010	GAME-FARM HELPER	2 2 2	30 TO 90 DAYS

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OCCUPATION: 5618

MARINE LIFE CULTIVATION WORKERS

These workers catch, breed, care for, and harvest marine life. They work in places such as fish hatcheries, shellfish beds, and shrimp ponds. They catch, select, sort, and feed water animals; prepare marine life for shipping; and clean and repair breeding equipment and storage tanks. They may use equipment such as nets, shovels, and handtools. They may catch fish from a powerboat or powerboat or by walking in water and feeling for shellfish with their bare feet. They may patrol breeding areas to prevent animals from harming crops.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0303	AQUACULTURE	446.684-010	FISH HATCHERY WORKER	3 1 2	SIX TO 12 MONTHS
		446.684-014	SHELLFISH-BED WORKER	2 1 1	30 TO 90 DAYS
		446.684-018	SOFT CRAB SHEDDER	2 1 1	THREE TO SIX MONTHS
		446.687-014	LABORER, AQUATIC LIFE	2 1 1	UP TO 30 DAYS

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OCCUPATION: 5619

NURSERY WORKERS

NURSERY WORKERS plant, cultivate, harvest, and care for trees, shrubs, and flowering plants. They work in nurseries, green houses, tree farms and other places where plants are grown for sale. They prepare the soil and plant, spray, weed and water plants. They also harvest, pack, transport, and store plant crops. They may drive and operate farm machinery. They may trap and poison plant pests and tag plants for identification. They also may help cut and saw tree limbs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
01.0602	ARBORICULTURE	408.687-018	TREE-SURGEON HELPER 2	2 1 2	UP TO 30 DAYS
01.0603	ORNAMENTAL HORTICULTURE	405.683-010	FARMWORKER, BULBS	3 2 2	SIX TO 12 MONTHS
		405.684-010	BUDDER	2 1 2	UP TO 30 DAYS
		405.684-014	HORTICULTURAL WORKER 1	3 2 3	30 TO 90 DAYS
		405.687-010	FLOWER PICKER	1 1 1	SHORT DEMONSTRATION
		405.687-014	HORTICULTURAL WORKER 2	2 1 1	UP TO 30 DAYS
		405.687-018	TRANSPLANTER, ORCHID	2 1 2	UP TO 30 DAYS
		408.364-010	PLANT-CARE WORKER	3 2 3	30 TO 90 DAYS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	405.684-014	HORTICULTURAL WORKER 1	3 2 3	30 TO 90 DAYS
		405.687-014	HORTICULTURAL WORKER 2	2 1 1	UP TO 30 DAYS
		405.687-018	TRANSPLANTER, ORCHID	2 1 2	UP TO 30 DAYS
		408.364-010	PLANT-CARE WORKER	3 2 3	30 TO 90 DAYS
01.0606	NURSERY OPERATION AND MANAGEMENT	405.684-010	BUDDER	2 1 2	UP TO 30 DAYS
		405.684-014	HORTICULTURAL WORKER 1	3 2 3	30 TO 90 DAYS
		405.687-014	HORTICULTURAL WORKER 2	2 1 1	UP TO 30 DAYS
		405.687-018	TRANSPLANTER, ORCHID	2 1 2	UP TO 30 DAYS
		408.687-018	TREE-SURGEON HELPER 2	2 1 2	UP TO 30 DAYS
01.0607	TURF MANAGEMENT	405.687-014	HORTICULTURAL WORKER 2	2 1 1	UP TO 30 DAYS

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OCCUPATION: 5620

RELATED AGRICULTURAL OCCUPATIONS

These workers care for plants or animals. They may work in parks, greenhouses, cemeteries, or golf courses where they plant shrubs, trim grass, or groom walkways. Others work with animals used for recreation, sporting, exhibition, or research purposes. They feed and groom animals, and check them for disease or injury. Some workers sort and grade agricultural products while others inspect fields and farms for pests that damage produce and animals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5621

SUPERVISORS; RELATED AGRICULTURAL WORKERS

These people supervise workers who care for plants or animals at places other than farms. For example, some supervise workers who keep up the grounds at a cemetery, park, or golf course. Others supervise workers who care for animals at a zoo or circus. They study assignments and determine the workers and supplies needed to complete them. They plan work schedules, assign duties, explain tasks, and check completed work. They enforce safety rules, handle problems and complaints, and keep work records. They also may hire and fire workers and prepare work reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	406.134-014	SUPERVISOR, PARK WORKERS	4 3 4	ONE TO TWO YEARS
		406.137-010	GREENSKEEPER 1	4 3 3	ONE TO TWO YEARS
		406.137-014	SUPERINTENDENT, GREENS	4 4 4	TWO TO FOUR YEARS
		408.131-010	SUPERVISOR, SPRAY, LAWN AND TREE SE	4 4 4	TWO TO FOUR YEARS
		929.137-034	YARD SUPERVISOR, COTTON GIN	4 3 3	ONE TO TWO YEARS
01.0305	GAME FARM MANAGEMENT	412.137-010	ANIMAL KEEPER, HEAD	4 3 3	TWO TO FOUR YEARS
01.0602	ARBORICULTURE	408.131-010	SUPERVISOR, SPRAY, LAWN AND TREE SE	4 4 4	TWO TO FOUR YEARS
		408.137-014	SUPERVISOR, TREE-TRIMMING	4 3 4	ONE TO TWO YEARS
01.0603	ORNAMENTAL HORTICULTURE	406.134-014	SUPERVISOR, PARK WORKERS	4 3 4	ONE TO TWO YEARS
		408.131-010	SUPERVISOR, SPRAY, LAWN AND TREE SE	4 4 4	TWO TO FOUR YEARS
		408.137-014	SUPERVISOR, TREE-TRIMMING	4 3 4	ONE TO TWO YEARS
01.0605	LANDSCAPING	406.134-014	SUPERVISOR, PARK WORKERS	4 3 4	ONE TO TWO YEARS
01.0607	TURF MANAGEMENT	406.134-010	SUPERVISOR, CEMETERY WORKERS	4 3 3	ONE TO TWO YEARS
		406.134-014	SUPERVISOR, PARK WORKERS	4 3 4	ONE TO TWO YEARS
		406.137-010	GREENSKEEPER 1	4 3 3	ONE TO TWO YEARS
		406.137-014	SUPERINTENDENT, GREENS	4 4 4	TWO TO FOUR YEARS
		408.131-010	SUPERVISOR, SPRAY, LAWN AND TREE SE	4 4 4	TWO TO FOUR YEARS
02.0203	ANIMAL HEALTH	412.137-010	ANIMAL KEEPER, HEAD	4 3 3	TWO TO FOUR YEARS
02.0204	ANIMAL NUTRITION	412.137-010	ANIMAL KEEPER, HEAD	4 3 3	TWO TO FOUR YEARS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	408.131-010	SUPERVISOR, SPRAY, LAWN AND TREE SE	4 4 4	TWO TO FOUR YEARS

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OCCUPATION: 5622

GROUNDSKEEPERS AND GARDENERS, EXCEPT FARM

These people take care of lawns, trees, shrubs, flower gardens, and grounds in such places as parks, greenhouses, golf courses, cemeteries, or estates. They may also care for buildings and equipment in these places. Depending upon the specific job, their work duties may range from planting trees, flowers, and shrubs to mowing grass and digging ditches. They may also shovel snow, pick up litter, and repair fences and walks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	406.684-010	CEMETERY WORKER	3 1 2 SIX TO 12 MONTHS
		408.684-010	LAWN-SERVICE WORKER	3 2 2 THREE TO SIX MONTHS
01.0603	ORNAMENTAL HORTICULTURE	406.684-018	GARDEN WORKER	3 2 3 THREE TO SIX MONTHS
01.0604	GREENHOUSE OPERATION AND MANAGEMENT	406.684-018	GARDEN WORKER	3 2 3 THREE TO SIX MONTHS
01.0605	LANDSCAPING	301.687-018	YARD WORKER	2 2 2 UP TO 30 DAYS
		406.381-010	GARDENER, SPECIAL EFFECTS AND INSTR	4 3 3 SIX TO 12 MONTHS
		406.684-014	GROUNDSKEEPER, INDUSTRIAL-COMMERCIA	2 1 2 30 TO 90 DAYS
		406.687-010	GROUNDSKEEPER, PARKS AND GROUNDS	2 1 2 UP TO 30 DAYS
		408.684-010	LAWN-SERVICE WORKER	3 2 2 THREE TO SIX MONTHS
		408.687-014	LABORER, LANDSCAPE	2 2 2 UP TO 30 DAYS
01.0607	TURF MANAGEMENT	406.381-010	GARDENER, SPECIAL EFFECTS AND INSTR	4 3 3 SIX TO 12 MONTHS
		406.683-010	GREENSKEEPER 2	2 1 2 30 TO 90 DAYS
		406.687-010	GROUNDSKEEPER, PARKS AND GROUNDS	2 1 2 UP TO 30 DAYS
		408.684-010	LAWN-SERVICE WORKER	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 5624

ANIMAL CARETAKERS, EXCEPT FARM

These people care for and groom pets and animals kept for sporting, recreation, exhibition, or research purposes. They feed and groom the animals and check them for signs of injury or illness. They may record such information about them as their bloodline, diet, weight, and medical history. They may clean, build and repair pens. They may sterilize equipment used to treat animals. They may exercise animals and unload and store feed and supplies. They may shoe animals' hooves or trim their toenails.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	410.674-010	ANIMAL CARETAKER	2 1 1	THREE TO SIX MONTHS
		412.674-014	ANIMAL-NURSERY WORKER	3 2 3	THREE TO SIX MONTHS
		412.687-010	COMMISSARY ASSISTANT	2 2 1	UP TO 30 DAYS
01.0302	ANIMAL PRODUCTION	410.674-010	ANIMAL CARETAKER	2 1 1	THREE TO SIX MONTHS
		410.674-022	STABLE ATTENDANT	2 1 1	UP TO 30 DAYS
01.0303	AQUACULTURE	419.674-010	AQUARIST	3 2 2	THREE TO SIX MONTHS
01.0305	GAME FARM MANAGEMENT	412.674-010	ANIMAL KEEPER	3 2 2	THREE TO SIX MONTHS
01.0502	AGRICULTURAL SERVICES	410.674-010	ANIMAL CARETAKER	2 1 1	THREE TO SIX MONTHS
		418.381-010	HORSESHOER	3 2 2	ONE TO TWO YEARS
01.0504	PET GROOMING	410.674-010	ANIMAL CARETAKER	2 1 1	THREE TO SIX MONTHS
		418.674-010	DOG GROOMER	3 2 3	THREE TO SIX MONTHS
		418.677-010	DOG BATHER	3 2 2	UP TO 30 DAYS
01.0505	ANIMAL TRAINING	410.674-022	STABLE ATTENDANT	2 1 1	UP TO 30 DAYS
01.0506	HORSESHOEING	418.381-010	HORSESHOER	3 2 2	ONE TO TWO YEARS
01.0507	HORSE HANDLING AND CARE	*410.674-022	STABLE ATTENDANT	2 1 1	UP TO 30 DAYS
		*418.381-010	HORSESHOER	3 2 2	ONE TO TWO YEARS
17.0303	CLINICAL ANIMAL TECHNOLOGY	410.674-010	ANIMAL CARETAKER	2 1 1	THREE TO SIX MONTHS
17.0512	VETERINARIAN ASSISTING	410.674-010	ANIMAL CARETAKER	2 1 1	THREE TO SIX MONTHS

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OCCUPATION: 5625

GRADERS AND SORTERS: AGRICULTURAL PRODUCTS

People in these jobs sort farm products into groups based on their size, weight, color, or condition. They sort such products as fleece or wool, cotton, clams, fruits, nuts, bulbs, or vegetables. They sort these products either before they are processed or before they are marketed. They also may dispose of dirty or damaged products and bunch, tie, or trim products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I.	
00.0000	NO CIP ASSIGNED	410.687-026	WOOL-FLEECE SORTER	2 1 1	30 TO 90 DAYS
		429.387-010	COTTON CLASSER	4 3 3	TWO TO FOUR YEARS
		589.387-014	WOOL SORTER	4 2 3	ONE TO TWO YEARS
		589.687-054	WOOL-FLEECE GRADER	3 3 3	THREE TO SIX MONTHS
01.0303	AQUACULTURE	446.687-010	CLAM SORTER	2 1 2	UP TO 30 DAYS
01.0402	FOOD PRODUCTS	529.687-186	SORTER, AGRICULTURAL PRODUCE	1 1 1	UP TO 30 DAYS

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OCCUPATION: 5627

INSPECTORS: AGRICULTURAL PRODUCTS

These workers inspect farm products for quality before they are sold. They also try to make sure that products which are to be sold are in good condition. Some search through fields, brush, trees, and warehouses to locate and kill insects, weeds, or other pests that can harm farm products. Others work in fields or sheds where they inspect and grade farm products and dispose of poor products. In still other jobs, workers inspect poultry farms to make sure they are clean and that chickens and eggs are free from diseases.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0302	ANIMAL PRODUCTION	411.267-010	FIELD SERVICE TECHNICIAN, POULTRY	4 3 3	TWO TO FOUR YEARS
01.0304	CROP PRODUCTION	408.381-010	SCOUT	3 2 3	THREE TO SIX MONTHS
		408.381-014	WEED INSPECTOR	3 2 3	SIX TO 12 MONTHS
		408.687-010	FIELD INSPECTOR, DISEASE AND INSECT	2 2 2	UP TO 30 DAYS
		409.687-010	INSPECTOR-GRADER, AGRICULTURAL ESTA	2 2 2	30 TO 90 DAYS
01.0502	AGRICULTURAL SERVICES	408.381-010	SCOUT	3 2 3	THREE TO SIX MONTHS
		408.381-014	WEED INSPECTOR	3 2 3	SIX TO 12 MONTHS
		408.687-010	FIELD INSPECTOR, DISEASE AND INSECT	2 2 2	UP TO 30 DAYS
		409.687-010	INSPECTOR-GRADER, AGRICULTURAL ESTA	2 2 2	30 TO 90 DAYS
		411.267-010	FIELD SERVICE TECHNICIAN, POULTRY	4 3 3	TWO TO FOUR YEARS
01.0602	ARBORICULTURE	408.381-010	SCOUT	3 2 3	THREE TO SIX MONTHS
02.0209	POULTRY	411.267-010	FIELD SERVICE TECHNICIAN, POULTRY	4 3 3	TWO TO FOUR YEARS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	408.381-010	SCOUT	3 2 3	THREE TO SIX MONTHS
		408.381-014	WEED INSPECTOR	3 2 3	SIX TO 12 MONTHS
		408.687-010	FIELD INSPECTOR, DISEASE AND INSECT	2 2 2	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 5700

FORESTRY AND LOGGING OCCUPATIONS

These workers harvest forest products. They may cut timber, clear land, or fell trees. Others trim logs or treetops. They operate machines to cut and haul lumber. Others sort, load, move, or store logs at logging sites or in lumber yards. They may bind logs into rafts, load logs onto conveyors, stack logs, or determine how many trees are available for cutting. Some workers plant and care for forests or stands of trees. They grade trees and harvest seedlings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5710

SUPERVISORS: FORESTRY AND LOGGING WORKERS

These people supervise workers who fell trees and harvest forest products. They also supervise workers who operate material moving equipment at logging sites. They study production schedules and decide how many worker hours will be needed to complete jobs. They interpret policies and enforce safety rules. They assign duties to workers, evaluate their work, and help solve work problems. They also hire, train, and fire workers and keep time and production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0603	ORNAMENTAL HORTICULTURE	451.137-014	SUPERVISOR, CHRISTMAS-TREE FARM	3 2 2	SIX TO 12 MONTHS
01.0606	NURSERY OPERATION AND MANAGEMENT	451.137-010	FOREST NURSERY SUPERVISOR	4 3 3	ONE TO TWO YEARS
03.0402	FOREST PRODUCTION	451.137-010	FOREST NURSERY SUPERVISOR	4 3 3	ONE TO TWO YEARS
		451.137-014	SUPERVISOR, CHRISIMAS-TREE FARM	3 2 2	SIX TO 12 MONTHS
03.0403	FOREST PRODUCTS UTILIZATION	455.134-010	SUPERVISOR, LOG SORTING	3 2 3	TWO TO FOUR YEARS
03.0405	LOGGING	459.133-010	SUPERVISOR, LOGGING	4 2 3	TWO TO FOUR YEARS
		921.131-010	HOOK TENDER	3 2 2	TWO TO FOUR YEARS
03.0504	FOREST ENGINEERING	*451.137-010	FOREST NURSERY SUPERVISOR	4 3 3	ONE TO TWO YEARS
		*459.133-010	SUPERVISOR, LOGGING	4 2 3	TWO TO FOUR YEARS
03.0506	FOREST MANAGEMENT	*451.137-010	FOREST NURSERY SUPERVISOR	4 3 3	ONE TO TWO YEARS
		*459.133-010	SUPERVISOR, LOGGING	4 2 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5720

FORESTRY WORKERS, EXCEPT LOGGING

These workers plant and care for trees. They also may harvest forest products such as Christmas trees, cones, bark, and moss. Some work on tree farms where they clear land, plant seedlings, and prune and fell trees. Some harvest seedlings by walking along rows of trees and digging clumps of seedlings from the soil. Some work as FORESTER AIDES. These workers compile information on forest areas, clean campsites, and perform other duties to protect and maintain forest areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0603	ORNAMENTAL HORTICULTURE	453.687-010	FOREST-PRODUCTS GATHERER	2 1 1	UP TO 30 DAYS
01.0606	NURSERY OPERATION AND MANAGEMENT	451.687-018	SEEDLING PULLER	1 1 1	SHORT DEMONSTRATION
		451.687-022	SEEDLING SORTER	1 1 1	UP TO 30 DAYS
		452.687-018	TREE PLANTER	1 1 1	SHORT DEMONSTRATION
03.0202	CONSERVATION	452.364-010	FORESTER AIDE	4 3 3	ONE TO TWO YEARS
		452.687-010	FOREST WORKER	2 1 1	UP TO 30 DAYS
		452.687-018	TREE PLANTER	1 1 1	SHORT DEMONSTRATION
03.0203	RESOURCES PROTECTION AND REGULATION	452.364-010	FORESTER AIDE	4 3 3	ONE TO TWO YEARS
03.0402	FOREST PRODUCTION	451.687-010	CHRISTMAS-TREE FARM WORKER	1 1 1	UP TO 30 DAYS
		451.687-014	CHRISTMAS-TREE GRADER	2 1 1	30 TO 90 DAYS
		451.687-018	SEEDLING PULLER	1 1 1	SHORT DEMONSTRATION
		451.687-022	SEEDLING SORTER	1 1 1	UP TO 30 DAYS
		452.364-010	FORESTER AIDE	4 3 3	ONE TO TWO YEARS
		452.687-010	FOREST WORKER	2 1 1	UP TO 30 DAYS
		452.687-018	TREE PLANTER	1 1 1	SHORT DEMONSTRATION
03.0403	FOREST PRODUCTS UTILIZATION	453.687-014	LABORER, TREE TAPPING	1 1 1	UP TO 30 DAYS
03.0504	FOREST ENGINEERING	*452.687-010	FOREST WORKER	2 1 1	UP TO 30 DAYS
03.0506	FOREST MANAGEMENT	*452.687-010	FOREST WORKER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5730

TIMBER CUTTING AND RELATED OCCUPATIONS

People in these jobs cut down trees, clear brush, and saw and trim logs. They clear land to prepare it for utility lines or for buildings, farming, or forestry sites. Some work at logging sites, saw mills, or lumber companies. They may climb trees and use saws or pruning shears to trim treetops. They may fell trees, using an ax or saw. They may operate machines and vehicles to cut and haul timber. They may saw and chop up branches and load them on a truck. They may split logs into posts or stakes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0602	ARBORICULTURE	408.664-010	TREE TRIMMER	3 2 2	THREE TO SIX MONTHS
		408.667-010	TREE-TRIMMER HELPER	1 1 1	UP TO 30 DAYS
03.0202	CONSERVATION	459.687-010	LABORER, BRUSH CLEARING	1 1 1	UP TO 30 DAYS
03.0405	LOGGING	454.384-010	FALLER 1	3 1 2	ONE TO TWO YEARS
		454.683-010	TREE-SHEAR OPERATOR	3 1 1	THREE TO SIX MONTHS
		454.684-010	BUCKER	2 1 1	30 TO 90 DAYS
		454.684-014	FALLER 2	2 1 1	30 TO 90 DAYS
		454.684-018	LOGGER, ALL-ROUND	2 1 1	THREE TO SIX MONTHS
		454.684-022	RIVER	2 1 1	UP TO 30 DAYS
		454.684-026	TREE CUTTER	2 1 1	30 TO 90 DAYS
		454.687-010	CHAINSAW OPERATOR	2 1 1	UP TO 30 DAYS
		454.687-014	LABORER, TANBARK	2 1 1	30 TO 90 DAYS
		459.687-010	LABORER, BRUSH CLEARING	1 1 1	UP TO 30 DAYS

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OCCUPATION: 5790

LOGGING OCCUPATIONS, N.E.C.

People in these jobs sort, load, move, and store logs and perform related tasks at logging site or lumber yards. Some measure and mark logs, assemble logs into rafts so they can be towed to a mill. Some determine how much timber is available for marketing. Some load logs onto skids or conveyors to be moved to cutting or shredding machines. Some signal workers where to place logs brought to a landing. Many of these workers use axes, saws, and other logging tools and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	455.664-010	RAFTER	2 1 1	30 TO 90 DAYS
		455.684-010	LOG SORTER	3 1 1	30 TO 90 DAYS
		669.687-022	PICKER	2 1 2	UP TO 30 DAYS
		922.687-082	PUIP PILER	1 1 1	UP TO 30 DAYS
03.0202	CONSERVATION	459.387-010	CRUISER	4 3 3	TWO TO FOUR YEARS
03.0403	FOREST PRODUCTS UTILIZATION	454.687-018	LOG MARKER	3 2 1	30 TO 90 DAYS
		455.487-010	LOG SCALER	3 3 2	SIX TO 12 MONTHS
		459.387-010	CRUISER	4 3 3	TWO TO FOUR YEARS
03.0405	LOGGING	455.687-010	LOG MARKER	2 1 1	UP TO 30 DAYS
		921.364-010	RIGGING SLINGER	3 1 2	SIX TO 12 MONTHS
		921.664-014	RIGGER	3 2 2	SIX TO 12 MONTHS
		921.667-014	CHASER	2 1 1	30 TO 90 DAYS
		921.687-014	CHOKE SETTER	1 1 1	UP TO 30 DAYS
		921.687-030	RIGGER, THIRD	1 1 1	UP TO 30 DAYS
03.0504	FOREST ENGINEERING	*459.387-010	CRUISER	4 3 3	TWO TO FOUR YEARS
03.0506	FOREST MANAGEMENT	*459.387-010	CRUISER	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 5800

FISHERS, HUNTERS, AND TRAPPERS

These workers fish, hunt, or trap wildlife. They may catch freshwater or deep sea fish, trap crab or lobster, or gather sea moss. Others work as hunters. They may capture wild animals to identify, exhibit, sell, or relocate them. They may kill animals for food or fur, or to protect other animals. Trappers capture animals in traps and may skin the animals for their pelts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 5830

FISHERS

FISHERS catch or gather marine life, such as fish, lobsters, oysters, and seamoss. They may work alone or as part of a crew. They may fish from the shore or a dock, or dredge, or by wading or diving into the water. They may use spears, hooks and lines, nets, seines, cages, or their hands to catch or gather marine life. They may assemble and repair fishing nets and gear. They also may measure or weigh the catch and store it in containers or the hold of a ship.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	441.683-010	SKIFF OPERATOR	3 1 2	THREE TO SIX MONTHS
		441.684-010	FISHER, NET	2 1 1	THREE TO SIX MONTHS
		441.684-014	FISHER, POT	2 1 1	UP TO 30 DAYS
		441.684-018	FISHER, TERRAPIN	2 1 1	UP TO 30 DAYS
		441.684-022	FISHER, WEIR	2 1 1	THREE TO SIX MONTHS
		442.684-010	FISHER, LINE	2 1 1	30 TO 90 DAYS
		443.664-010	FISHER, DIVING	3 2 2	THREE TO SIX MONTHS
		443.684-010	FISHER, SPEAR	2 1 1	THREE TO SIX MONTHS
		447.684-010	SPONGE HOOKER	2 1 1	UP TO 30 DAYS
		447.687-010	DULSER	1 1 1	UP TO 30 DAYS
		447.687-014	IRISH-MOSS BLEACHER	2 1 1	UP TO 30 DAYS
		447.687-018	IRISH-MOSS GATHERER	1 1 1	UP TO 30 DAYS
		447.687-022	KELP CUTTER	2 1 1	UP TO 30 DAYS
		447.687-026	SPONGE CLIPPER	2 1 1	UP TO 30 DAYS
		449.667-010	DECKHAND, FISHING VESSEL	2 1 1	30 TO 90 DAYS
		449.687-010	OYSTER FLOATER	1 1 1	SHORT DEMONSTRATION
01.0303	AQUACULTURE	446.663-010	SHELLFISH DREDGE OPERATOR	3 2 2	SIX TO 12 MONTHS
49.0303	COMMERCIAL FISHING OPERATIONS	441.132-010	BOATSWAIN, OTTER TRAWLER	4 2 3	TWO TO FOUR YEARS
49.0308	SAILORS AND DECKHANDS	449.664-010	NET REPAIRER	3 1 2	ONE TO TWO YEARS

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OCCUPATION: 5840

HUNTERS AND TRAPPERS

These workers hunt, trap, or raise wild animals and birds. They may capture animals to identify, exhibit, sell, or relocate them. They may kill animals for food or furs or to prevent them from harming other animals. They may work alone or as part of a hunting party. They use equipment such as weapons, traps, nets, and poisons to capture or kill animals. They may skin animals and cure their pelts. Some workers supervise hunting expeditions or collect and capture sea life.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	461.684-010	SEALER	2 2 1 UP TO 30 DAYS
01.0305	GAME FARM MANAGEMENT	169.171-010	GAMEKEEPER	4 3 3 ONE TO TWO YEARS
		461.684-014	TRAPPER, ANIMAL	3 2 2 SIX TO 12 MONTHS
		461.684-018	TRAPPER, BIRD	3 2 2 THREE TO SIX MONTHS
02.0202	ANIMAL BREEDING AND GENETICS	169.171-010	GAMEKEEPER	4 3 3 ONE TO TWO YEARS
02.0204	ANIMAL NUTRITION	169.171-010	GAMEKEEPER	4 3 3 ONE TO TWO YEARS
03.0601	WILDLIFE MANAGEMENT	169.171-010	GAMEKEEPER	4 3 3 ONE TO TWO YEARS
		461.134-010	EXPEDITION SUPERVISOR	4 2 3 ONE TO TWO YEARS
		461.661-010	PREDATORY-ANIMAL HUNTER	3 1 1 SIX TO 12 MONTHS
		461.664-010	UNDERWATER HUNTER-TRAPPER	4 2 3 SIX TO 12 MONTHS
		461.684-014	TRAPPER, ANIMAL	3 2 2 SIX TO 12 MONTHS
		461.684-018	TRAPPER, BIRD	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 5999

MECHANICS AND REPAIRERS

These workers maintain and repair mechanical equipment and instruments. They may install or repair electrical equipment for communications systems or data processing. Others may work on vehicles, repairing autos or maintaining construction or heavy transportation equipment. Some work on precision instruments, household appliances, watches, cameras, or musical instruments. Some repair, move, or maintain industrial machinery and work to prevent breakdowns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6000

SUPERVISORS: MECHANICS AND REPAIRERS

These people supervise workers who adjust, maintain, and repair tools and machinery. They determine the workers materials and supplies needed to repair jobs, and the methods and procedures to be used. They train workers, assign duties, interpret work orders, and solve difficult work problems. They prepare progress reports and recommend ways to improve work methods and conditions. They also enforce safety rules and handle worker and customer complaints. They may perform some or all of the duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	184.167-050	MAINTENANCE SUPERVISOR	5 5 4	FOUR TO TEN YEARS
		187.167-142	MANAGER, SERVICE DEPARTMENT	4 4 4	TWO TO FOUR YEARS
		620.137-010	TANK AND AMPHIBIAN TRACTOR OPERATIO	3 2 2	TWO TO FOUR YEARS
		624.131-010	SUPERVISOR, FARM-EQUIPMENT MAINTENA	4 3 4	TWO TO FOUR YEARS
		632.131-010	ARTILLERY-MAINTENANCE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		638.131-010	FUEL-SYSTEM-MAINTENANCE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		638.131-018	MAINTENANCE SUPERVISOR, FIRE-FIGHTI	4 3 4	FOUR TO TEN YEARS
		805.131-010	SUPERVISOR, BOILERMAKING	4 4 3	FOUR TO TEN YEARS
		899.130-010	SUPERVISOR, CANAL-EQUIPMENT MAINTEN	4 3 3	FOUR TO TEN YEARS
		899.131-014	LOCK MAINTENANCE SUPERVISOR	4 4 3	FOUR TO TEN YEARS
01.0204	AGRICULTURAL POWER MACHINERY	187.167-142	MANAGER, SERVICE DEPARTMENT	4 4 4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	185.167-058	SERVICE MANAGER	4 3 4	ONE TO TWO YEARS
		187.167-142	MANAGER, SERVICE DEPARTMENT	4 4 4	TWO TO FOUR YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	187.167-010	APPLIANCE-SERVICE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		623.131-014	SUPERVISOR, GEAR REPAIR	4 3 3	TWO TO FOUR YEARS
		625.131-010	ENGINE-TESTING SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		625.131-014	SUPERVISOR, ENGINE-REPAIR	4 4 4	FOUR TO TEN YEARS
		630.131-010	PUMP-SERVICER SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		631.131-010	POWERHOUSE-MECHANIC SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		633.131-010	OFFICE-MACHINE-SERVICE SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		637.131-010	SUPERVISOR, COOLER SERVICE	4 3 3	TWO TO FOUR YEARS
		638.131-010	FUEL-SYSTEM-MAINTENANCE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		638.131-022	MAINTENANCE-MECHANIC SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		638.131-026	MECHANICAL-MAINTENANCE SUPERVISOR	4 3 4	FOUR TO TEN YEARS
		710.131-010	SUPERVISOR, GAS METER REPAIR	4 3 3	FOUR TO TEN YEARS
		710.131-018	SUPERVISOR, INSTRUMENT MECHANICS	4 4 4	FOUR TO TEN YEARS
		710.131-022	SUPERVISOR, INSTRUMENT REPAIR	4 3 3	TWO TO FOUR YEARS
		710.131-026	SUPERVISOR, METER REPAIR SHOP	4 3 4	FOUR TO TEN YEARS
		710.131-030	SUPERVISOR, METER SHOP	4 3 3	TWO TO FOUR YEARS
		710.137-014	SUPERVISOR, METER-AND-REGULATOR SHO	4 3 4	FOUR TO TEN YEARS

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Training Needs
Assessment Guide
"Crosswalk" Manual
Part II



Appendices to the
Training Needs Assessment Guide

Agency for
International Development

Office of
International Training
Washington D.C. 20523

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 6900 SUPERVISORS; MECHANICS AND REPAIRERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
		721.131-010	ELECTRIC MOTOR REPAIRING SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		805.137-010	SUPERVISOR, BOILER REPAIR	4 3 3	FOUR TO TEN YEARS
		821.131-010	ELECTRICAL-INSTALLATION SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		821.131-014	LINE SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		821.131-018	SERVICE SUPERVISOR 2	4 4 4	FOUR TO TEN YEARS
		821.131-026	WIREWORKER SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		822.131-014	CUSTOMER-FACILITIES SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		822.131-018	LINE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		823.131-010	COMMUNICATIONS ELECTRICIAN SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		823.131-022	SUPERVISOR, RADIO INTERFERENCE	4 4 4	FOUR TO TEN YEARS
		827.131-010	ELECTRICAL-APPLIANCE-SERVICE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		829.131-022	SUPERVISOR, ELECTRICAL REPAIR AND T	4 3 3	FOUR TO TEN YEARS
08.0708	MARKETING, GENERAL	*185.167-058	SERVICE MANAGER	4 3 4	ONE TO TWO YEARS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	185.167-058	SERVICE MANAGER	4 3 4	ONE TO TWO YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROA	823.131-022	SUPERVISOR, RADIO INTERFERENCE	4 4 4	FOUR TO TEN YEARS
15.0303	ELECTRONIC TECHNOLOGY	823.131-010	COMMUNICATIONS ELECTRICIAN SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		823.131-022	SUPERVISOR, RADIO INTERFERENCE	4 4 4	FOUR TO TEN YEARS
		828.161-010	SUPERVISOR, ELECTRONICS SYSTEMS MAI	5 5 4	FOUR TO TEN YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	710.131-018	SUPERVISOR, INSTRUMENT MECHANICS	4 4 4	FOUR TO TEN YEARS
		710.131-022	SUPERVISOR, INSTRUMENT REPAIR	4 3 3	TWO TO FOUR YEARS
		710.131-026	SUPERVISOR, METER REPAIR SHOP	4 3 4	FOUR TO TEN YEARS
		710.137-014	SUPERVISOR, METER-AND-REGULATOR SHO	4 3 4	FOUR TO TEN YEARS
		825.131-014	ELEVATOR-CONSTRUCTOR SUPERVISOR	4 3 3	FOUR TO TEN YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	710.131-018	SUPERVISOR, INSTRUMENT MECHANICS	4 4 4	FOUR TO TEN YEARS
		710.131-022	SUPERVISOR, INSTRUMENT REPAIR	4 3 3	TWO TO FOUR YEARS
15.0701	OCCUPATIONAL SAFETY AND HEALTH TECHNOLOG	638.131-010	FUEL-SYSTEM-MAINTENANCE SUPERVISOR	4 4 4	TWO TO FOUR YEARS
15.0801	AERONAUTICAL TECHNOLOGY	823.131-018	SUPERVISOR, AVIONICS SHOP	4 4 4	FOUR TO TEN YEARS
15.0804	MARINE PROPULSION TECHNOLOGY	625.131-010	ENGINE-TESTING SUPERVISOR	4 4 4	FOUR TO TEN YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	629.131-010	BAKERY-MACHINE-MECHANIC SUPERVISOR	4 3 4	TWO TO FOUR YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	921.130-010	RIGGING SUPERVISOR	4 3 3	FOUR TO TEN YEARS
49.0305	MARINA OPERATIONS	187.167-130	MANAGER, MARINE SERVICE	4 3 3	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 6000 SUPERVISORS; MECHANICS AND REPAIRERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
49.0306 MARINE MAINTENANCE	187.167-130 MANAGER, MARINE SERVICE	4 3 3 FOUR TO TEN YEARS
	623.131-014 SUPERVISOR, GEAR REPAIR	4 3 3 TWO TO FOUR YEARS
	891.131-010 DOCK SUPERVISOR	4 3 3 TWO TO FOUR YEARS

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OCCUPATION: 5100

MECHANICS AND REPAIRERS

These workers maintain and repair mechanical equipment and instruments. They may install or repair electrical equipment for communications systems or data processing. Others may work on vehicles, repairing autos or maintaining construction or heavy transportation equipment. Some work on precision instruments, household appliances, watches, cameras, or musical instruments. Some repair, move, or maintain industrial machinery and work to prevent breakdowns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6110

VEHICLE AND MOBILE EQUIPMENT MECHANICS AND REPAIRERS

These workers maintain and repair vehicles and other mobile equipment. They may repair automobiles or auto bodies. Others repair heavy equipment used in construction or on farms. Some work on aircraft engines, hydraulic systems, or airframe assemblies such as wings. They may assemble rocket parts or work on locomotives. Some work to maintain industrial or refinery equipment and prevent breakdowns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME

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OCCUPATION: 6111

AUTOMOBILE MECHANICS

AUTOMOBILE MECHANICS service and repair cars and other gas-powered vehicles. While most of these MECHANICS perform a variety of repairs, some specialize in the repair of a certain part of a car such as the brakes, transmissions, or engine. They use many different handtools, power tools, and testing instruments to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
15.0803	AUTOMOTIVE TECHNOLOGY	620.261-034	AUTOMOTIVE-COOLING-SYSTEM DIAGNOSTI	4	3 3	TWO TO FOUR YEARS
47.0203	HEATING AND AIR CONDITIONING	620.281-010	AIR-CONDITIONING MECHANIC	3	2 3	ONE TO TWO YEARS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	620.281-046	MAINTENANCE MECHANIC	4	3 3	TWO TO FOUR YEARS
		620.381-022	REPAIRER, HEAVY	3	2 3	ONE TO TWO YEARS
47.0603	AUTOMOTIVE BODY REPAIR	620.684-034	USED-CAR RENOVATOR	3	2 2	THREE TO SIX MONTHS
		706.381-046	WHEELWRIGHT	3	1 2	SIX TO 12 MONTHS
47.0604	AUTOMOTIVE MECHANICS	620.261-010	AUTOMOBILE MECHANIC	4	3 3	TWO TO FOUR YEARS
		620.261-012	AUTOMOBILE-MECHANIC APPRENTICE	4	3 3	TWO TO FOUR YEARS
		620.261-030	AUTOMOBILE-SERVICE-STATION MECHANIC	3	2 3	SIX TO 12 MONTHS
		620.261-034	AUTOMOTIVE-COOLING-SYSTEM DIAGNOSTI	4	3 3	TWO TO FOUR YEARS
		620.281-010	AIR-CONDITIONING MECHANIC	3	2 3	ONE TO TWO YEARS
		620.281-026	BRAKE REPAIRER	3	3 3	ONE TO TWO YEARS
		620.281-034	CARBURETOR MECHANIC	3	2 3	TWO TO FOUR YEARS
		620.281-038	FRONT-END MECHANIC	3	3 3	ONE TO TWO YEARS
		620.281-046	MAINTENANCE MECHANIC	4	3 3	TWO TO FOUR YEARS
		620.281-062	TRANSMISSION MECHANIC	3	3 3	TWO TO FOUR YEARS
		620.281-066	TUNE-UP MECHANIC	4	3 3	TWO TO FOUR YEARS
		620.281-070	VEHICLE-FUEL-SYSTEMS CONVERTER	3	2 3	ONE TO TWO YEARS
		620.381-010	AUTOMOBILE-RADIATOR MECHANIC	3	2 3	ONE TO TWO YEARS
		620.684-018	BRAKE ADJUSTER	2	2 2	UP TO 30 DAYS
		620.684-022	CLUTCH REBUILDER	3	2 3	THREE TO SIX MONTHS
		625.281-022	FUEL-INJECTION SERVICER	4	4 4	ONE TO TWO YEARS
		710.261-010	INSTRUMENT REPAIRER	4	3 4	FOUR TO TEN YEARS
		806.361-026	NEW-CAR GET-READY MECHANIC	3	2 2	ONE TO TWO YEARS
		806.684-038	AUTOMOBILE-ACCESSORIES INSTALLER	2	1 2	THREE TO SIX MONTHS
		807.664-010	MUFFLER INSTALLER	3	2 2	THREE TO SIX MONTHS
		807.684-022	FLOOR SERVICE WORKER, SPRING	2	1 1	THREE TO SIX MONTHS

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OCCUPATION: 6112

BUS AND TRUCK ENGINE, AND STATIONARY DIESEL ENGINE MECHANICS

These people service and repair engines used to power industrial vehicles and machinery. This includes bus, truck, tractor, train, and boat engines as well as engines used to power machines. They read job orders and manuals and listen to and test engines to determine the repairs needed. They remove engines, take them apart, and repair or replace worn or damaged parts. They may recondition engine parts and install and connect piping, controls, and ignition systems. They use mechanics' tools, hoists, jacks, meters, gauges, and power equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
01.0204	AGRICULTURAL POWER MACHINERY	620.281-058	TRACTOR MECHANIC	4	3 3	TWO TO FOUR YEARS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	620.281-050	MECHANIC, INDUSTRIAL TRUCK	4	3 3	TWO TO FOUR YEARS
		620.281-058	TRACTOR MECHANIC	4	3 3	TWO TO FOUR YEARS
47.0605	DIESEL ENGINE MECHANICS	620.281-050	MECHANIC, INDUSTRIAL TRUCK	4	3 3	TWO TO FOUR YEARS
		620.281-058	TRACTOR MECHANIC	4	3 3	TWO TO FOUR YEARS
		625.281-010	DIESEL MECHANIC	4	3 3	TWO TO FOUR YEARS
		625.281-014	DIESEL-MECHANIC APPRENTICE	4	3 3	TWO TO FOUR YEARS
49.0306	MARINE MAINTENANCE	625.361-010	DIESEL-ENGINE ERECTOR	4	3 3	TWO TO FOUR YEARS
		623.281-018	MACHINIST APPRENTICE, MARINE ENGINE	4	3 3	TWO TO FOUR YEARS
49.0308	SAILORS AND DECKHANDS	623.281-026	MACHINIST, MARINE ENGINE	4	3 3	TWO TO FOUR YEARS
		623.281-018	MACHINIST APPRENTICE, MARINE ENGINE	4	3 3	TWO TO FOUR YEARS

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OCCUPATION: 6113

AIRCRAFT ENGINE MECHANICS

These MECHANICS service and repair aircraft engines. Some inspect, test, and adjust jet and propeller-driven planes. Others make and assemble rocket engine parts. These workers use handtools, power tools, and precision measuring instruments to do their work. They may specialize in testing hydraulic, electrical power, structural systems or other aircraft systems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	693.281-026	ROCKET-ENGINE MECHANIC	4 4 4 TWO TO FOUR YEARS
15.0801	AERONAUTICAL TECHNOLOGY	621.281-026	MECHANIC, FIELD AND SERVICE	3 3 3 TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*621.281-026	MECHANIC, FIELD AND SERVICE	3 3 3 TWO TO FOUR YEARS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	*621.281-026	MECHANIC, FIELD AND SERVICE	3 3 3 TWO TO FOUR YEARS

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OCCUPATION: 6114

SMALL ENGINE REPAIRERS

These workers service and repair small engines, such as those found on chain saws, motorcycles, motorboats, and lawn mowers. They also may repair and adjust clutches, brakes, and other machine parts. They listen to the engines and talk with customers to determine the repair work needed. They take engines apart, test them, and repair or replace defective parts. They may rebuild motors. They may also clean engine parts, replace rings and timing devices, and replace faulty wiring. They use precision measuring tools, handtools, and machine tools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
01.0203	AGRICULTURAL MECHANICS, CONSTRUCTION AND	625.281-030	POWER-SAW MECHANIC	3	3	3	ONE TO TWO YEARS
01.0204	AGRICULTURAL POWER MACHINERY	625.281-026	GAS-ENGINE REPAIRER	3	3	3	ONE TO TWO YEARS
		625.281-034	SMALL-ENGINE MECHANIC	3	3	3	ONE TO TWO YEARS
47.0107	MOTOR REPAIR	721.281-022	MAGNETO REPAIRER	4	2	2	ONE TO TWO YEARS
47.0606	SMALL ENGINE REPAIR	620.281-054	MOTORCYCLE REPAIRER	3	3	3	ONE TO TWO YEARS
		620.684-026	MOTORCYCLE SUBASSEMBLY REPAIRER	3	2	2	SIX TO 12 MONTHS
		625.281-018	ENGINE REPAIRER, SERVICE	4	3	3	TWO TO FOUR YEARS
		625.281-026	GAS-ENGINE REPAIRER	3	3	3	ONE TO TWO YEARS
		625.281-030	POWER-SAW MECHANIC	3	3	3	ONE TO TWO YEARS
		625.281-034	SMALL-ENGINE MECHANIC	3	3	3	ONE TO TWO YEARS
		625.381-010	ENGINE REPAIRER, PRODUCTION	4	3	3	ONE TO TWO YEARS
49.0306	MARINE MAINTENANCE	623.261-010	EXPERIMENTAL MECHANIC, OUTBOARD MOT	4	4	4	TWO TO FOUR YEARS
		623.261-014	OUTBOARD-MOTOR TESTER	4	3	3	ONE TO TWO YEARS
		623.281-038	MOTORBOAT MECHANIC	4	3	3	TWO TO FOUR YEARS
		623.281-042	OUTBOARD-MOTOR MECHANIC	4	3	3	TWO TO FOUR YEARS

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OCCUPATION: 6115

AUTOMOBILE BODY AND RELATED REPAIRERS

These workers repair and refinish vehicle bodies. They straighten bent frames, remove dents, and replace crumpled parts that are beyond repair. They may straighten bumpers or replace broken glass. They may tighten brackets and loose bolts, and make other minor repairs. Some install custom equipment at a customer's request. They use a variety of equipment and tools, including drills, riveters, welders, hammers, files, screwdrivers, and sanders. Some also use measuring tools and power machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	807.381-026	STREETCAR REPAIRER	4	2	2 ONE TO TWO YEARS
		807.484-010	FRAME STRAIGHTENER	3	2	2 SIX TO 12 MONTHS
47.0603	AUTOMOTIVE BODY REPAIR	620.364-010	SQUEAK, RATTLE, AND LEAK REPAIRER	2	2	2 THREE TO SIX MONTHS
		807.267-010	SHOP ESTIMATOR	4	3	3 ONE TO TWO YEARS
		807.281-010	TRUCK-BODY BUILDER	4	3	3 TWO TO FOUR YEARS
		807.281-014	TRUCK-BODY-BUILDER APPRENTICE	4	3	3 TWO TO FOUR YEARS
		807.361-010	AUTOMOBILE-BODY CUSTOMIZER	3	2	2 ONE TO TWO YEARS
		807.381-010	AUTOMOBILE-BODY REPAIRER	4	3	4 TWO TO FOUR YEARS
		807.381-018	FRAME REPAIRER	3	2	1 TWO TO FOUR YEARS
		807.381-022	SERVICE MECHANIC	3	2	3 ONE TO TWO YEARS
		807.684-010	AUTOMOBILE-BUMPER STRAIGHTENER	2	1	1 30 TO 90 DAYS
		865.684-010	GLASS INSTALLER	3	1	2 THREE TO SIX MONTHS

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OCCUPATION: 6116

AIRCRAFT MECHANICS (EXCEPT ENGINE SPECIALISTS)

These workers service and repair airplanes. They repair hydraulic systems, landing gear, propeller assemblies, and fuel tanks. They also repair airframe assemblies, such as wings and tail units. They work from blueprints and engineering orders. They use handtools, power tools, welders, rivet guns, metal-working machines, and precision measuring devices. They assemble and install power brake units, carburetors, valves, and pipelines. They also inspect wiring, switches, and controls to make sure they are in safe operating condition.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	638.381-010	FUEL-SYSTEM-MAINTENANCE WORKER	3 3 3	TWO TO FOUR YEARS
15.0801	AERONAUTICAL TECHNOLOGY	621.281-022	EXPERIMENTAL MECHANIC 2	4 3 4	TWO TO FOUR YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	639.281-010	AVIATION SUPPORT EQUIPMENT REPAIRER	3 3 3	SIX TO 12 MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	638.381-010	FUEL-SYSTEM-MAINTENANCE WORKER	3 3 3	TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*621.281-010	AIR-CONDITIONING CHECK-OUT MECHANIC	4 3 3	TWO TO FOUR YEARS
		*621.281-014	AIRFRAME-AND-POWER-PLANT MECHANIC	4 4 4	TWO TO FOUR YEARS
		*621.281-018	AIRFRAME-AND-POWER-PLANT-MECHANIC A	4 3 3	TWO TO FOUR YEARS
		*621.281-022	EXPERIMENTAL MECHANIC 2	4 3 4	TWO TO FOUR YEARS
		*621.381-010	FLIGHT-TEST SHOP MECHANIC	4 3 3	TWO TO FOUR YEARS
		*621.381-014	MECHANIC, AIRCRAFT ACCESSORIES	3 3 3	ONE TO TWO YEARS
		*638.381-010	FUEL-SYSTEM-MAINTENANCE WORKER	3 3 3	TWO TO FOUR YEARS
		*639.281-010	AVIATION SUPPORT EQUIPMENT REPAIRER	3 3 3	SIX TO 12 MONTHS
		*693.260-014	EXPERIMENTAL-AIRCRAFT MECHANIC	4 3 4	TWO TO FOUR YEARS
		*806.281-038	MECHANIC, AIRCRAFT RIGGING AND CONT	4 3 3	TWO TO FOUR YEARS
		*806.381-014	AIRCRAFT MECHANIC, HEAT AND VENT	4 3 3	TWO TO FOUR YEARS
		*806.381-018	AIRCRAFT MECHANIC, RIGGING AND CONT	4 4 3	ONE TO TWO YEARS
		*806.684-110	PRESSURE SEALER-AND-TESTER	3 1 1	THREE TO SIX MONTHS
		*807.261-010	AIRCRAFT BODY REPAIRER	4 3 3	TWO TO FOUR YEARS
		*807.684-018	BURNISHER AND BUMPER	2 1 1	30 TO 90 DAYS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	*621.281-014	AIRFRAME-AND-POWER-PLANT MECHANIC	4 4 4	TWO TO FOUR YEARS
		*621.281-018	AIRFRAME-AND-POWER-PLANT-MECHANIC A	4 3 3	TWO TO FOUR YEARS
		*621.281-022	EXPERIMENTAL MECHANIC 2	4 3 4	TWO TO FOUR YEARS
		693.260-014	EXPERIMENTAL-AIRCRAFT MECHANIC	4 3 4	TWO TO FOUR YEARS
		806.281-038	MECHANIC, AIRCRAFT RIGGING AND CONT	4 3 3	TWO TO FOUR YEARS
		806.381-018	AIRCRAFT MECHANIC, RIGGING AND CONT	4 4 3	ONE TO TWO YEARS
48.0604	PLASTICS	754.381-018	PLASTICS BENCH MECHANIC	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 6117

HEAVY EQUIPMENT MECHANICS

These workers repair and service large machines such as bulldozers, graders, and power shovels. Some repair railed vehicles or sea vessels. They operate and inspect machines to find out what is wrong with them. They take machinery apart and use meters and gauges to examine parts for damage and wear. They use mechanics' handtools, jacks, and cranes or hoists to remove vehicle parts. They may weld, straighten, bolt, and refit structural metal assemblies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	807.667-010	FLATCAR WHACKER	2	1 1	30 TO 90 DAYS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	620.261-022	CONSTRUCTION-EQUIPMENT MECHANIC	3	3 3	TWO TO FOUR YEARS
		520.281-042	LOGGING-EQUIPMENT MECHANIC	4	3 3	TWO TO FOUR YEARS
		620.381-018	MECHANICAL-UNIT REPAIRER	4	3 3	TWO TO FOUR YEARS
		622.381-014	CAR REPAIRER	4	3 3	TWO TO FOUR YEARS
		622.381-018	CAR REPAIRER, PULIMAN	4	3 3	TWO TO FOUR YEARS
		622.381-022	CAR-REPAIRER APPRENTICE	4	3 3	TWO TO FOUR YEARS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	622.684-010	AIR-COMPRESSOR MECHANIC	3	3 3	ONE TO TWO YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	622.381-030	MINE-CAR REPAIRER	4	3 3	TWO TO FOUR YEARS
47.0604	AUTOMOTIVE MECHANICS	622.684-010	AIR-COMPRESSOR MECHANIC	3	3 3	ONE TO TWO YEARS
		620.381-014	MECHANIC, ENDLESS TRACK VEHICLE	4	3 3	TWO TO FOUR YEARS

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OCCUPATION: 6118

FARM EQUIPMENT MECHANICS

These people service and repair machinery, equipment, and vehicles used on farms to plant, tend, harvest, move, process, and store plant and animal products. This equipment includes tractors, harvesters, pumps, tilling equipment, trucks, balers, combines, and plows. They use many basic handtools and may use power tools or welding and testing equipment to do repair work. They spend much of their time repairing and adjusting equipment brought to a shop, but may travel to farms to make emergency repairs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M I TRAINING TIME
01.0204 AGRICULTURAL POWER MACHINERY	624.281-010 FARM-EQUIPMENT MECHANIC 1	4 3 3 TWO TO FOUR YEARS
	624.281-014 FARM-EQUIPMENT-MECHANIC APPRENTICE	4 3 3 TWO TO FOUR YEARS
	624.361-014 SPRINKLER-IRRIGATION-EQUIPMENT MECH	4 2 3 ONE TO TWO YEARS
	624.381-010 ASSEMBLY REPAIRER	3 3 3 SIX TO 12 MONTHS
	624.381-014 FARM-EQUIPMENT MECHANIC 2	3 2 3 ONE TO TWO YEARS
	624.684-010 GREASER	2 1 2 THREE TO SIX MONTHS
01.0206 SOIL AND WATER MECHANICAL PRACTICES	629.281-018 DAIRY-EQUIPMENT REPAIRER	4 3 3 TWO TO FOUR YEARS
	624.361-014 SPRINKLER-IRRIGATION-EQUIPMENT MECH	4 2 3 ONE TO TWO YEARS

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OCCUPATION: 6130

INDUSTRIAL MACHINERY REPAIRERS

These workers install, repair, and service industrial machinery. They keep machines well oiled and greased, replace parts as needed, and use meters and gauges to measure and align all parts. They also keep up-to-date records of repairs and inspection schedules. They follow blueprints and other technical instructions to diagnose problems and make repairs. They use handtools and may use powered tools and machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	622.684-018	SWITCH REPAIRER	3 2 2	SIX TO 12 MONTHS
		626.381-022	REPAIRER, WELDING EQUIPMENT	3 3 3	ONE TO TWO YEARS
		630.261-018	REPAIRER 1	3 3 3	TWO TO FOUR YEARS
		631.261-014	POWERHOUSE MECHANIC	4 3 3	FOUR TO TEN YEARS
		631.261-018	POWERHOUSE-MECHANIC APPRENTICE	4 3 3	FOUR TO TEN YEARS
		683.380-010	HARNESSE BUILDER	4 2 3	ONE TO TWO YEARS
		899.281-010	CANAL-EQUIPMENT MECHANIC	3 3 3	ONE TO TWO YEARS
01.0204	AGRICULTURAL POWER MACHINERY	629.281-030	MAINTENANCE MECHANIC	4 3 3	ONE TO TWO YEARS
		630.281-018	PUMP SERVICER	3 3 3	TWO TO FOUR YEARS
15.0506	WATER AND WASTEWATER TECHNOLOGY	630.281-038	TREATMENT-PLANT MECHANIC	4 3 3	ONE TO TWO YEARS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	899.684-010	BONDCTOR-MACHINE OPERATOR	3 1 1	30 TO 90 DAYS
46.0401	BUILDING AND PROPERTY MAINTENANCE	899.281-014	MAINTENANCE REPAIRER, FACTORY OR MI	4 4 3	TWO TO FOUR YEARS
47.0103	COMMUNICATION ELECTRONICS	629.281-022	ELECTRONIC-PRODUCTION-LINE-MAINTENA	4 4 3	FOUR TO TEN YEARS
47.0105	INDUSTRIAL ELECTRONICS	629.281-022	ELECTRONIC-PRODUCTION-LINE-MAINTENA	4 4 3	FOUR TO TEN YEARS
47.0108	SMALL APPLIANCE REPAIR	639.281-018	SEWING-MACHINE REPAIRER	3 3 3	TWO TO FOUR YEARS
47.0203	HEATING AND AIR CONDITIONING	637.281-014	STOKER ERECTOR-AND-SERVICER	4 3 3	TWO TO FOUR YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	620.281-018	AUTOMOTIVE-MAINTENANCE-EQUIPMENT SE	4 3 3	TWO TO FOUR YEARS
		626.261-010	FORGE-SHOP-MACHINE REPAIRER	4 3 3	TWO TO FOUR YEARS
		626.281-010	MACHINE REPAIRER, MAINTENANCE	4 3 3	TWO TO FOUR YEARS
		626.361-010	REPAIRER, WELDING, BRAZING, AND BUR	4 3 3	TWO TO FOUR YEARS
		626.381-010	CASE-FINISHING-MACHINE ADJUSTER	3 3 3	SIX TO 12 MONTHS
		626.381-018	HYDRAULIC-PRESS SERVICER	3 2 3	ONE TO TWO YEARS
		627.261-010	COMPOSING-ROOM MACHINIST	4 3 3	FOUR TO TEN YEARS
		627.261-014	MACHINIST APPRENTICE, COMPOSING ROO	4 3 3	FOUR TO TEN YEARS
		627.261-018	MACHINIST APPRENTICE, LINO TYPE	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		627.261-022	MACHINIST, LINOTYPE	4	3	3	TWO TO FOUR YEARS
		627.281-010	PRESS MAINTAINER	4	3	3	FOUR TO TEN YEARS
		628.261-010	OVERHAULER	4	3	4	ONE TO TWO YEARS
		628.281-010	MACHINE FIXER	4	3	4	TWO TO FOUR YEARS
		628.381-010	CARD CLOTHIER	4	3	3	TWO TO FOUR YEARS
		628.382-010	FLAT CLOTHIER	3	2	3	SIX TO 12 MONTHS
		628.484-010	REED REPAIRER	3	2	2	SIX TO 12 MONTHS
		628.684-018	NEEDLE STRAIGHTENER	3	2	2	THREE TO SIX MONTHS
		628.684-026	SHUTTLE FIXER	3	2	3	30 TO 90 DAYS
		628.684-030	SPINDLE PLUMBER	3	2	3	SIX TO 12 MONTHS
		628.684-034	UTILITY WORKER, ROLLER SHOP	3	2	2	30 TO 90 DAYS
		628.684-038	WIRE REPAIRER	3	2	3	30 TO 90 DAYS
		629.261-010	LAUNDRY-MACHINE MECHANIC	3	2	3	ONE TO TWO YEARS
		629.261-014	MILLER, HEAD, WET PROCESS	3	3	3	TWO TO FOUR YEARS
		629.261-018	POWDER-LINE REPAIRER	4	3	3	ONE TO TWO YEARS
		629.280-010	MAINTENANCE MECHANIC	4	3	3	ONE TO TWO YEARS
		629.281-010	BAKERY-MACHINE MECHANIC	4	3	3	TWO TO FOUR YEARS
		629.281-014	CELLOPHANE-CASTING-MACHINE REPAIRER	4	3	3	ONE TO TWO YEARS
		629.281-022	ELECTRONIC-PRODUCTION-LINE-MAINTENA	4	4	3	FOUR TO TEN YEARS
		629.281-026	FORMING-MACHINE ADJUSTER	4	3	3	SIX TO 12 MONTHS
		629.281-030	MAINTENANCE MECHANIC	4	3	3	ONE TO TWO YEARS
		629.281-034	PUMP MECHANIC	4	3	3	ONE TO TWO YEARS
		629.361-010	MACHINE-CLOTHING REPLACER	4	3	3	TWO TO FOUR YEARS
		629.381-010	FOILING-MACHINE ADJUSTER	3	2	3	SIX TO 12 MONTHS
		630.261-010	MAINTENANCE MECHANIC, COMPRESSED-GA	4	3	3	TWO TO FOUR YEARS
		630.261-014	OVEN-EQUIPMENT REPAIRER	3	3	3	ONE TO TWO YEARS
		630.261-018	REPAIRER 1	3	3	3	TWO TO FOUR YEARS
		630.281-010	PNEUMATIC-TOOL REPAIRER	4	3	3	TWO TO FOUR YEARS
		630.281-014	PNEUMATIC-TUBE REPAIRER	3	3	3	ONE TO TWO YEARS
		630.281-018	PUMP SERVICER	3	3	3	TWO TO FOUR YEARS
		630.281-022	REPAIRER	4	3	3	TWO TO FOUR YEARS
		630.281-026	REPAIRER	4	3	3	TWO TO FOUR YEARS
		630.281-030	RUBBERIZING MECHANIC	4	3	3	TWO TO FOUR YEARS
		630.281-034	SERVICE MECHANIC, COMPRESSED-GAS EQ	4	3	3	TWO TO FOUR YEARS
		630.281-038	TREATMENT-PLANT MECHANIC	4	3	3	ONE TO TWO YEARS
		630.381-010	CONVEYOR-MAINTENANCE MECHANIC	3	3	3	ONE TO TWO YEARS
		630.381-018	LEAD OPERATOR	4	3	3	ONE TO TWO YEARS
		630.381-022	LUBRICATION-EQUIPMENT SERVICER	3	2	2	ONE TO TWO YEARS
		630.381-026	SPRAY-GUN REPAIRER	3	3	3	TWO TO FOUR YEARS
		630.664-014	SCREEN-AND-CYCLONE REPAIRER	3	2	2	THREE TO SIX MONTHS
		630.684-010	ANODE REBUILDER	3	2	2	SIX TO 12 MONTHS
		630.684-026	REPAIRER 2	3	2	2	THREE TO SIX MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		631.261-010	HYDROELECTRIC-MACHINERY MECHANIC	4	3 3	TWO TO FOUR YEARS
		631.261-014	POWERHOUSE MECHANIC	4	3 3	FOUR TO TEN YEARS
		631.261-018	POWERHOUSE-MECHANIC APPRENTICE	4	3 3	FOUR TO TEN YEARS
		632.380-010	INSPECTING-MACHINE ADJUSTER	3	2 3	THREE TO SIX MONTHS
		683.684-010	CHAIN REPAIRER	3	1 2	SIX TO 12 MONTHS
		701.684-022	SAW SETTER	3	1 2	SIX TO 12 MONTHS
		701.684-030	TOOL FILER	3	1 2	SIX TO 12 MONTHS
		769.664-010	SHAKER REPAIRER	2	1 1	UP TO 30 DAYS
		979.381-026	ROLLER REPAIRER	4	2 2	TWO TO FOUR YEARS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	626.361-010	REPAIRER, WELDING, BRAZING, AND BUR	4	3 3	TWO TO FOUR YEARS
		630.281-022	REPAIRER	4	3 3	TWO TO FOUR YEARS
		630.281-026	REPAIRER	4	3 3	TWO TO FOUR YEARS
		630.664-014	SCREEN-AND-CYCLONE REPAIRER	3	2 2	THREE TO SIX MONTHS
		630.684-030	SCREEN REPAIRER, CRUSHER	3	2 2	THREE TO SIX MONTHS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	629.381-014	OIL-FIELD EQUIPMENT MECHANIC	4	3 3	ONE TO TWO YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	630.261-010	MAINTENANCE MECHANIC, COMPRESSED-GA	4	3 3	TWO TO FOUR YEARS
		631.261-010	HYDROELECTRIC-MACHINERY MECHANIC	4	3 3	TWO TO FOUR YEARS
		631.261-014	POWERHOUSE MECHANIC	4	3 3	FOUR TO TEN YEARS
		631.261-018	POWERHOUSE-MECHANIC APPRENTICE	4	3 3	FOUR TO TEN YEARS
47.0604	AUTOMOTIVE MECHANICS	620.281-018	AUTOMOTIVE-MAINTENANCE-EQUIPMENT SE	4	3 3	TWO TO FOUR YEARS
48.0502	FOUNDRY WORK	899.684-010	BONDCTOR-MACHINE OPERATOR	3	1 1	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	600.281-010	FLUID-POWER MECHANIC	4	4 3	TWO TO FOUR YEARS
48.0504	METAL FABRICATION	630.384-010	FIXTURE REPAIRER-FABRICATOR	3	2 2	SIX TO 12 MONTHS
		709.684-062	REPAIRER	3	1 2	SIX TO 12 MONTHS
48.0508	WELDING	626.381-014	GAS-WELDING-EQUIPMENT MECHANIC	3	3 3	TWO TO FOUR YEARS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	779.684-026	GLASS-LINED TANK REPAIRER	3	1 2	30 TO 90 DAYS
49.0306	MARINE MAINTENANCE	623.281-010	DECK ENGINEER	4	3 3	TWO TO FOUR YEARS
		623.281-022	MACHINIST APPRENTICE, OUTSIDE	4	3 3	TWO TO FOUR YEARS
		623.281-030	MACHINIST, OUTSIDE	4	3 3	TWO TO FOUR YEARS
		623.281-034	MAINTENANCE MECHANIC, ENGINE	3	3 3	TWO TO FOUR YEARS
49.0308	SAILORS AND DECKHANDS	623.281-010	DECK ENGINEER	4	3 3	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
		623.281-034	MAINTENANCE MECHANIC, ENGINE	3 3 3 TWO TO FOUR YEARS

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OCCUPATION: 6140

MACHINERY MAINTENANCE OCCUPATIONS

These workers do routine maintenance of production machinery. They routinely change parts such as blades, rollers, bearings, knives, and guides. They also may fill containers with water, ink, coolants, or other materials. They may oil and grease machinery. They may also take apart, clean, and repair equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	529.685-230	STEM-DRYER MAINTAINER	1	1	1	UP TO 30 DAYS
		564.684-010	KNIFE SETTER, GRINDER MACHINE	2	1	1	30 TO 90 DAYS
		682.684-010	ROLLER CHECKER	2	1	1	30 TO 90 DAYS
		683.684-022	LEASE-OUT WORKER	2	1	2	30 TO 90 DAYS
		683.687-034	WARP-TENSION TESTER	2	1	2	UP TO 30 DAYS
		685.685-014	PATTERN ASSEMBLER	2	2	2	30 TO 90 DAYS
		689.686-026	FRAME CHANGER	2	1	1	UP TO 30 DAYS
		689.687-070	SHUTTLER	2	1	1	UP TO 30 DAYS
		776.684-014	POLISHING-WHEEL SETTER	2	1	2	30 TO 90 DAYS
		801.664-014	UTILITY WORKER, MERCHANT MILL	2	1	2	SIX TO 12 MONTHS
		826.684-018	CELL INSTALLER	3	2	2	ONE TO TWO YEARS
		891.684-014	RUBBER AND PLASTICS WORKER	3	3	3	THREE TO SIX MONTHS
46.0502	PIPEFITTING AND STEAMFITTING	891.564-010	PIPE CHANGER	2	1	2	30 TO 90 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	628.684-014	FRAME BANDER	2	1	1	30 TO 90 DAYS
		628.684-022	OVERHEAD CLEANER MAINTAINER	3	2	2	30 TO 90 DAYS
		628.687-010	FLYER REPAIRER	2	1	2	30 TO 90 DAYS
		629.684-010	CURING-PRESS MAINTAINER	2	2	2	UP TO 30 DAYS
		630.584-010	EQUIPMENT CLEANER-AND-TESTER	3	2	2	THREE TO SIX MONTHS
		630.684-014	BELT REPAIRER	2	1	1	THREE TO SIX MONTHS
		638.684-010	KNIFE CHANGER	1	1	1	UP TO 30 DAYS
		638.684-014	KNIFE SETTER	3	2	2	THREE TO SIX MONTHS
		683.684-026	SMASH HAND	3	1	2	30 TO 90 DAYS
		683.685-014	CARD CHANGER, JACQUARD LOOM	2	1	2	THREE TO SIX MONTHS
		689.364-010	STROBOSCOPE OPERATOR	3	2	3	SIX TO 12 MONTHS
		699.687-018	OILER	2	1	1	30 TO 90 DAYS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	801.664-010	LINER REPLACER	2	1	1	30 TO 90 DAYS
		857.684-018	STRIPPING-SHOVEL OILER	3	1	1	ONE TO TWO YEARS
		932.667-014	LOADING-SHOVEL OILER	2	1	1	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	729.687-030	SALVAGER	2	1	1	30 TO 90 DAYS
48.0208	PRINTING PRESS OPERATIONS	652.385-010	PRINTING-ROLLER HANDLER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 6140 MACHINERY MAINTENANCE OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0502	FOUNDRY WORK	514.684-018	NOZZLE-AND-SLEEVE WORKER	2 1 1	30 TO 90 DAYS
		519.664-014	POT LINER	3 1 2	THREE TO SIX MONTHS
		519.684-014	LEAF COVERER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 6150

ELECTRICAL AND ELECTRONIC EQUIPMENT REPAIRERS

These workers install, maintain, and repair electrical and electronic equipment. Jobs range from installing dry cells in batteries to maintaining missile control systems. Some work on communications systems equipment such as IV or telegraph systems. Others install and repair telephones. Some maintain data processing equipment, industrial process control systems, lighting systems, home entertainment equipment, or transformers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6151

COMMUNICATIONS EQUIPMENT REPAIRERS

These workers install, repair, and service communications equipment. This may include telephone, telegraph, radio, or TV equipment. They use handtools, powertools, testing devices, and soldering irons to install and repair equipment. They follow wiring diagrams and blueprints to determine how to repair and assemble parts of electrical systems. They may climb utility poles or go down into underground tunnels to work on equipment. They may drive a truck or patrol an area on foot to inspect, test and repair equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	822.281-030	TECHNICIAN, PLANT AND MAINTENANCE	4 3 3	TWO TO FOUR YEARS
		823.261-010	PUBLIC-ADDRESS SERVICER	4 3 2	TWO TO FOUR YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	822.281-010	AUTOMATIC-EQUIPMENT TECHNICIAN	4 4 3	TWO TO FOUR YEARS
15.0801	AFRONAUTICAL TECHNOLOGY	823.281-010	AVIONICS TECHNICIAN	4 4 4	ONE TO TWO YEARS
46.0302	ELECTRICIAN	822.261-010	ELECTRICIAN, OFFICE	4 3 3	TWO TO FOUR YEARS
		822.281-026	SIGNAL MAINTAINER	4 3 3	TWO TO FOUR YEARS
46.0303	LINeworker	821.261-010	COMMUNITY-ANTENNA-TELEVISION LINE T	3 3 3	ONE TO TWO YEARS
		821.281-010	TELEVISION-CABLE INSTALLER	4 4 3	SIX TO 12 MONTHS
		822.361-010	CABLE TESTER	4 3 3	TWO TO FOUR YEARS
		823.281-022	RIGGER	4 3 3	TWO TO FOUR YEARS
		825.261-010	ELECTRIC-TRACK-SWITCH MAINTAINER	4 4 3	TWO TO FOUR YEARS
47.0103	COMMUNICATION ELECTRONICS	722.281-010	INSTRUMENT REPAIRER	4 3 3	TWO TO FOUR YEARS
		726.381-014	PRODUCTION REPAIRER	3 2 2	ONE TO TWO YEARS
		729.281-010	AUDIO-VIDEO REPAIRER	4 3 3	ONE TO TWO YEARS
		729.381-022	WIRER, CABLE	3 2 2	ONE TO TWO YEARS
		822.261-010	ELECTRICIAN, OFFICE	4 3 3	TWO TO FOUR YEARS
		822.281-010	AUTOMATIC-EQUIPMENT TECHNICIAN	4 4 3	TWO TO FOUR YEARS
		822.281-014	CENTRAL-OFFICE REPAIRER	4 3 3	TWO TO FOUR YEARS
		822.281-022	PRIVATE-BRANCH-EXCHANGE REPAIRER	4 2 3	TWO TO FOUR YEARS
		822.281-034	TECHNICIAN, SUBMARINE CABLE EQUIPME	4 4 3	TWO TO FOUR YEARS
		822.361-014	CENTRAL-OFFICE INSTALLER	4 3 3	TWO TO FOUR YEARS
		822.361-026	TRANSMISSION TESTER	4 3 3	TWO TO FOUR YEARS
		822.381-010	EQUIPMENT INSTALLER	4 3 3	TWO TO FOUR YEARS
		822.381-018	PRIVATE-BRANCH-EXCHANGE INSTALLER	4 3 3	TWO TO FOUR YEARS
		822.381-022	TELEGRAPH-PLANT MAINTAINER	4 3 3	TWO TO FOUR YEARS
		823.261-018	RADIO MECHANIC	4 3 3	TWO TO FOUR YEARS
		823.281-014	ELECTRICIAN, RADIO	4 4 3	TWO TO FOUR YEARS
		829.281-022	SOUND TECHNICIAN	4 3 3	ONE TO TWO YEARS
		959.367-014	FACILITY EXAMINER	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 6151 COMMUNICATIONS EQUIPMENT REPAIRERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	729.281-010	AUDIO-VIDEO REPAIRER	4 3 3	ONE TO TWO YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*823.281-010	AVIONICS TECHNICIAN	4 4 4	ONE TO TWO YEARS
		*825.381-010	AIRCRAFT MECHANIC, ELECTRICAL AND R	4 2 3	TWO TO FOUR YEARS

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OCCUPATION: 6152

ELECTRIC MOTOR, TRANSFORMER, AND RELATED REPAIRERS

These workers install, repair, and service electrical equipment, such as motors, transformers, batteries, wiring, and switches. They follow blueprints or diagrams and use testing devices and handtools. They may test and repair vehicle generators, starters, and motors. They may recondition parts used in electric power systems. They may replace cells in batteries. They may service electrical equipment aboard a ship. These workers take machines apart, replace defective parts, and solder loose connections.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	727.381-014	BATTERY REPAIRER	3	2	2	ONE TO TWO YEARS
		727.684-018	CELL REPAIRER	2	2	2	30 TO 90 DAYS
		820.381-010	BATTERY MAINTAINER, LARGE EMERGENCY	3	3	3	ONE TO TWO YEARS
		826.384-010	CELL REPAIRER	3	2	2	SIX TO 12 MONTHS
		826.684-014	CELL CHANGER	3	2	2	SIX TO 12 MONTHS
46.0302	ELECTRICIAN	721.261-010	ELECTRIC-MOTOR ANALYST	4	3	2	TWO TO FOUR YEARS
		729.684-038	REPAIRER, SWITCHGEAR	3	2	2	SIX TO 12 MONTHS
		820.381-010	BATTERY MAINTAINER, LARGE EMERGENCY	3	3	3	ONE TO TWO YEARS
		825.281-014	ELECTRICIAN	4	3	3	TWO TO FOUR YEARS
		829.684-010	BATTERY INSPECTOR	3	3	3	THREE TO SIX MONTHS
47.0105	INDUSTRIAL ELECTRONICS	724.381-018	TRANSFORMER REPAIRER	3	2	2	TWO TO FOUR YEARS
		729.684-038	REPAIRER, SWITCHGEAR	3	2	2	SIX TO 12 MONTHS
47.0106	MAJOR APPLIANCE REPAIR	620.261-026	ELECTRIC-GOLF-CART REPAIRER	3	2	3	SIX TO 12 MONTHS
47.0107	MOTOR REPAIR	721.261-010	ELECTRIC-MOTOR ANALYST	4	3	2	TWO TO FOUR YEARS
		721.281-010	AUTOMOTIVE-GENERATOR-AND-STARTER RE	4	3	2	ONE TO TWO YEARS
		721.281-014	ELECTRIC-MOTOR ASSEMBLER AND TESTER	4	3	2	TWO TO FOUR YEARS
		721.281-018	ELECTRIC-MOTOR REPAIRER	4	3	3	TWO TO FOUR YEARS
		721.281-026	PROPULSION-MOTOR-AND-GENERATOR REPA	4	3	2	TWO TO FOUR YEARS
		721.381-010	ELECTRIC-MOTOR FITTER	4	2	3	TWO TO FOUR YEARS
		724.381-018	TRANSFORMER REPAIRER	3	2	2	TWO TO FOUR YEARS
		724.684-018	ARMATURE WINDER, REPAIR	3	2	2	THREE TO SIX MONTHS
		825.281-014	ELECTRICIAN	4	3	3	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	729.384-018	SALVAGE REPAIRER 2	3	1	2	SIX TO 12 MONTHS
		820.381-010	BATTERY MAINTAINER, LARGE EMERGENCY	3	3	3	ONE TO TWO YEARS
		821.361-034	POWER TRANSFORMER REPAIRER	4	3	2	TWO TO FOUR YEARS
47.0604	AUTOMOTIVE MECHANICS	721.281-010	AUTOMOTIVE-GENERATOR-AND-STARTER RE	4	3	2	ONE TO TWO YEARS
		721.281-026	PROPULSION-MOTOR-AND-GENERATOR REPA	4	3	2	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 6153

ELECTRONIC REPAIRERS, COMMERCIAL AND INDUSTRIAL EQUIPMENT

These people install, repair, and service electronic equipment used in business and industry. They work with computer, radar, and missile control systems and with systems that control industrial machinery and processes. They use electrical and electronic testing devices to locate and diagnose electrical problems. They interpret wiring diagrams to trace and connect wires. They repair and replace relays, switches, and controls. They replace plugs, wall switches, and appliance cords. They use a variety of handtools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	828.281-022	RADIOACTIVITY-INSTRUMENT MAINTENANC	4	4	4	TWO TO FOUR YEARS
01.0202	AGRICULTURAL ELECTRIFICATION, POWER, AND	829.281-014	ELECTRICAL REPAIRER	4	4	3	TWO TO FOUR YEARS
15.0302	ELECTRICAL TECHNOLOGY	821.261-018	RELAY TECHNICIAN	4	4	3	FOUR TO TEN YEARS
15.0303	ELECTRONIC TECHNOLOGY	828.251-010	ELECTRONIC-SALES-AND-SERVICE TECHNI	4	3	3	TWO TO FOUR YEARS
		828.261-014	FIELD ENGINEER	4	4	4	TWO TO FOUR YEARS
		828.281-010	ELECTRONICS MECHANIC	4	4	4	TWO TO FOUR YEARS
15.0402	COMPUTER SERVICING TECHNOLOGY	828.251-010	ELECTRONIC-SALES-AND-SERVICE TECHNI	4	3	3	TWO TO FOUR YEARS
		828.261-014	FIELD ENGINEER	4	4	4	TWO TO FOUR YEARS
		828.281-010	ELECTRONICS MECHANIC	4	4	4	TWO TO FOUR YEARS
		828.281-014	ELECTRONICS-MECHANIC APPRENTICE	4	4	4	TWO TO FOUR YEARS
46.0302	ELECTRICIAN	829.281-014	ELECTRICAL REPAIRER	4	4	3	TWO TO FOUR YEARS
46.0303	LINEWORKER	821.261-018	RELAY TECHNICIAN	4	4	3	FOUR TO TEN YEARS
		952.364-010	TROUBLE SHOOTER 1	3	2	2	SIX TO 12 MONTHS
47.0103	COMMUNICATION ELECTRONICS	823.261-014	RADIO INTERFERENCE INVESTIGATOR	4	4	3	TWO TO FOUR YEARS
		828.251-010	ELECTRONIC-SALES-AND-SERVICE TECHNI	4	3	3	TWO TO FOUR YEARS
		828.261-014	FIELD ENGINEER	4	4	4	TWO TO FOUR YEARS
		828.281-010	ELECTRONICS MECHANIC	4	4	4	TWO TO FOUR YEARS
		828.281-014	ELECTRONICS-MECHANIC APPRENTICE	4	4	4	TWO TO FOUR YEARS
47.0104	COMPUTER ELECTRONICS	828.251-010	ELECTRONIC-SALES-AND-SERVICE TECHNI	4	3	3	TWO TO FOUR YEARS
		828.261-014	FIELD ENGINEER	4	4	4	TWO TO FOUR YEARS
		828.281-010	ELECTRONICS MECHANIC	4	4	4	TWO TO FOUR YEARS
		828.281-014	ELECTRONICS-MECHANIC APPRENTICE	4	4	4	TWO TO FOUR YEARS
47.0105	INDUSTRIAL ELECTRONICS	828.251-010	ELECTRONIC-SALES-AND-SERVICE TECHNI	4	3	3	TWO TO FOUR YEARS
		828.281-010	ELECTRONICS MECHANIC	4	4	4	TWO TO FOUR YEARS

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OCCUPATION: 6153 ELECTRICAL AND ELECTRONIC REPAIRERS, COMMERCIAL AND (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		828.281-014	ELECTRONICS-MECHANIC APPRENTICE	4 4 4	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	820.261-010	ELECTRICIAN APPRENTICE, POWERHOUSE	4 4 3	FOUR TO TEN YEARS
		820.261-014	ELECTRICIAN, POWERHOUSE	4 4 3	FOUR TO TEN YEARS
		820.261-018	ELECTRICIAN, SUBSTATION	4 4 3	FOUR TO TEN YEARS
		959.367-010	ELECTRIC POWERLINE EXAMINER	3 2 3	ONE TO TWO YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 6154

DATA PROCESSING EQUIPMENT REPAIRERS

People in these jobs install, repair, and service punched-card office machines such as collators, proof machines, and card punches. They may make regular visits to offices to check, adjust, and repair machines. They may install, adjust, or repair machines upon request. They follow charts, blueprints, and diagrams to do their work. They also use handtools such as screwdrivers and wrenches and test equipment such as gauges and volt meters. Some workers specialize in the installation and repair of wiring in these machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0102	BUSINESS MACHINE REPAIR	633.261-010	ASSEMBLY TECHNICIAN	4	3 3 ONE TO TWO YEARS
		729.281-042	WIRER	3	3 2 ONE TO TWO YEARS
47.0104	COMPUTER ELECTRONICS	633.261-010	ASSEMBLY TECHNICIAN	4	3 3 ONE TO TWO YEARS
		729.281-042	WIRER	3	3 2 ONE TO TWO YEARS

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OCCUPATION: 6155

ELECTRONIC REPAIRERS, HOME-ENTERTAINMENT EQUIPMENT
 These workers repair and service TV sets, radios, stereos, tape recorders, and other home electronic products. Some specialize in repairing one kind of equipment, while others repair several types. They talk with customers to find out what is wrong and check for common problems such as loose connections. They sometimes use wiring diagrams and service manuals to see how to locate and solve problems. They use test equipment such as volt meters and handtools such as pliers, soldering irons, and wire cutters.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0103	COMMUNICATION ELECTRONICS	720.281-010	RADIO REPAIRER	4 2 2	ONE TO TWO YEARS
		720.281-014	TAPE-RECORDER REPAIRER	4 3 2	TWO TO FOUR YEARS
		720.281-018	TELEVISION-AND-RADIO REPAIRER	4 3 2	TWO TO FOUR YEARS
		823.361-010	TELEVISION INSTALLER	3 3 3	ONE TO TWO YEARS
47.0404	MUSICAL INSTRUMENT REPAIR	828.261-010	ELECTRONIC-ORGAN TECHNICIAN	4 3 3	ONE TO TWO YEARS
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	720.281-014	TAPE-RECORDER REPAIRER	4 3 2	TWO TO FOUR YEARS

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OCCUPATION: 6156

HOUSEHOLD APPLIANCE AND POWER TOOL REPAIRERS

These people install, repair, and service household appliances and power tools. They repair small items, such as bench tools, vacuum cleaners, and toasters. They also work on large items, such as ranges, dryers, and air conditioners. They examine the machines, and may refer to manuals to determine what is wrong with them and how to repair them. They take the machines apart, repair or replace damaged parts, test wiring, and grease parts. They use handtools and may use power tools and welding or soldering equipment to make repairs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	F M I	
47.0106	MAJOR APPLIANCE REPAIR	827.261-010	ELECTRICAL-APPLIANCE SERVICER	4 3 3	TWO TO FOUR YEARS
		827.261-014	ELECTRICAL-APPLIANCE-SERVICER APPRE	4 3 3	TWO TO FOUR YEARS
		827.464-010	AIR-CONDITIONING INSTALLER, DOMESTI	3 3 3	THREE TO SIX MONTHS
		827.661-010	HOUSEHOLD-APPLIANCE INSTALLER	3 3 3	ONE TO TWO YEARS
47.0108	SMALL APPLIANCE REPAIR	723.381-010	ELECTRICAL-APPLIANCE REPAIRER	4 2 3	ONE TO TWO YEARS
		723.381-014	VACUUM CLEANER REPAIRER	3 2 2	ONE TO TWO YEARS
		723.584-010	APPLIANCE REPAIRER	3 2 2	30 TO 90 DAYS
		729.281-022	ELECTRIC-TOOL REPAIRER	4 3 3	ONE TO TWO YEARS
		731.684-022	TOY-ELECTRIC-TRAIN REPAIRER	3 2 2	30 TO 90 DAYS
47.0203	HEATING AND AIR CONDITIONING	637.261-010	AIR-CONDITIONING INSTALLER-SERVICER	4 3 3	FOUR TO TEN YEARS
		827.464-010	AIR-CONDITIONING INSTALLER, DOMESTI	3 3 3	THREE TO SIX MONTHS

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OCCUPATION: 6157

TELEPHONE LINE INSTALLERS AND REPAIRERS

These workers install and repair wires and cables that connect telephone central offices to each other and to customers' phones and switchboards. They use power equipment to dig holes and set up poles to support the cables. They climb poles to attach cables and lay cables below the ground. When wires or cables break, they make emergency repairs. They also make routine checks of phone lines and install terminal boxes that connect phones to outside cables. These workers use handtools and electronic test equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
15.0302	ELECTRICAL TECHNOLOGY	728.281-010	ELECTRIC-CABLE DIAGRAMER	4 3 3 ONE TO TWO YEARS
46.0303	LINeworker	822.381-014	LINE INSTALLER-REPAIRER	4 3 3 TWO TO FOUR YEARS
		829.361-010	CABLE SPLICER	4 3 3 TWO TO FOUR YEARS
		829.361-014	CABLE-SPLICER APPRENTICE	4 3 3 TWO TO FOUR YEARS

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OCCUPATION: 6158

TELEPHONE INSTALLERS AND REPAIRERS

These workers install and repair telephones. They usually travel to work sites in trucks equipped with telephone tools and supplies. They change phones and put in new equipment. They may install a switchboard in an office or change a customer's two-party line to a private line. They also add extensions and replace old phones. When problems in phone service occur, they find the source of the problems and make repairs to restore service. These workers often specialize in servicing a particular kind of phone equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0103	COMMUNICATION ELECTRONICS	822.261-022	STATION INSTALLER-AND-REPAIRER	4 4 3	TWO TO FOUR YEARS
		822.281-018	MAINTENANCE MECHANIC, TELEPHONE	4 4 3	TWO TO FOUR YEARS

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OCCUPATION: 6159

MISCELLANEOUS ELECTRICAL AND ELECTRONIC EQUIPMENT REPAIRERS

These workers install and repair various types of electrical equipment. This includes electrical systems in cars, trains, aircraft, computers, and industrial machinery. Many workers specialize in a particular type of equipment. Some routinely inspect a company's equipment to locate and correct defects before breakdowns occur. They often work from blueprints or wiring diagrams. They test circuits, replace parts and wiring, and may advise management on the use of electrical equipment. They use testing devices and electricians' handtools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	825.381-014	AUTOMATIC-WINDOW-SEAT-AND-TOY-LIFT	3	3	3	THRE TO SIX MONTHS
		829.281-018	IN-FLIGHT REFUELING SYSTEM REPAIRER	3	3	3	TWO TO FOUR YEARS
15.0302	ELECTRICAL TECHNOLOGY	828.261-018	SENIOR TECHNICIAN, CONTROLS	4	4	4	TWO TO FOUR YEARS
46.0302	ELECTRICIAN	825.281-026	ELECTRICIAN, LOCOMOTIVE	4	3	3	TWO TO FOUR YEARS
		825.381-018	CONTROLLER REPAIRER-AND-TESTER	4	3	3	TWO TO FOUR YEARS
		828.381-010	EQUIPMENT INSTALLER	4	3	3	TWO TO FOUR YEARS
46.0303	LINWORKER	821.261-022	SERVICE RESTORER, EMERGENCY	4	2	3	TWO TO FOUR YEARS
		825.381-038	THIRD-RAIL INSTALLER	3	2	2	SIX TO 12 MONTHS
47.0105	INDUSTRIAL ELECTRONICS	729.381-018	STREET-LIGHT REPAIRER	4	2	3	TWO TO FOUR YEARS
47.0504	PUMPING PLANTS	828.261-016	SENIOR TECHNICIAN, CONTROLS	4	4	4	TWO TO FOUR YEARS
47.0604	AUTOMOTIVE MECHANICS	825.281-022	ELECTRICIAN, AUTOMOTIVE	4	3	3	TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*825.281-010	ELECTRICAL REPAIRER	3	2	2	ONE TO TWO YEARS
		*825.281-018	ELECTRICIAN, AIRPLANE	4	3	3	TWO TO FOUR YEARS

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OCCUPATION: 6160

HEATING, AIR-CONDITIONING, AND REFRIGERATION MECHANICS

The MECHANICS install, maintain, and repair equipment used to heat and cool buildings and to store food, drugs, and other items that can spoil. They may specialize in installation or repair work or in servicing a particular type of equipment. They inspect and test units for defects, take faulty units apart, and repair or replace parts. They follow blueprints or other technical instructions, and use handtools, power tools, and measuring devices. They may clean parts, replace filters, adjust controls, assemble switches, and cut and connect pipes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
15.0505	SOLAR HEATING AND COOLING TECHNOLOGY	637.261-030	SOLAR-ENERGY-SYSTEM INSTALLER	4	4 4 TWO TO FOUR YEARS
		637.687-018	SOLAR-ENERGY-SYSTEM-INSTALLER HELPE	2	2 2 THREE TO SIX MONTHS
47.0106	MAJOR APPLIANCE REPAIR	827.361-014	REFRIGERATION MECHANIC	4	3 3 TWO TO FOUR YEARS
47.0202	COOLING AND REFRIGERATION	637.261-026	REFRIGERATION MECHANIC	4	3 3 FOUR TO TEN YEARS
		637.381-010	EVAPORATIVE-COOLER INSTALLER	3	3 3 ONE TO TWO YEARS
		637.381-014	REFRIGERATION UNIT REPAIRER	3	2 3 ONE TO TWO YEARS
		827.361-014	REFRIGERATION MECHANIC	4	3 3 TWO TO FOUR YEARS
47.0203	HEATING AND AIR CONDITIONING	637.261-014	ENVIRONMENTAL-CONTROL-SYSTEM INSTAL	4	3 3 FOUR TO TEN YEARS
		869.281-010	FURNACE INSTALLER-AND-REPAIRER, HOT	4	3 3 TWO TO FOUR YEARS

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OCCUPATION: 6170

MISCELLANEOUS MECHANICS AND REPAIRERS

These workers install, maintain, and repair various kinds of equipment, machinery, and precision instruments. They may install and maintain heating, air conditioning, and refrigeration equipment. Some work on watches, cameras, thermostats, or control valves. Others tune and repair musical instruments. They may install elevators, rig lines for moving heavy equipment, or install and maintain heavy, complex machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6171

CAMERA, WATCH, AND OTHER PRECISION INSTRUMENT REPAIRERS

These workers repair and adjust precision instruments and equipment, such as cameras, watches, scales, meters, and special types of handtools. They follow blueprints and diagrams to build, test, and adjust instruments. They assemble electrical components and test circuits and assemblies. They use handtools to take apart, repair, assemble, and adjust instruments. They also may use metal-working machines to make precision parts. They may clean and lubricate equipment parts or file and hone gears. They also may install equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	710.281-026	INSTRUMENT MECHANIC	4 3 4	TWO TO FOUR YEARS
		710.281-030	INSTRUMENT TECHNICIAN	4 3 3	FOUR TO TEN YEARS
		711.281-014	INSTRUMENT MECHANIC, WEAPONS SYSTEM	4 3 3	FOUR TO TEN YEARS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	729.281-030	ELECTROMEDICAL-EQUIPMENT REPAIRER	4 3 3	ONE TO TWO YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	710.281-018	ELECTROMECHANICAL TECHNICIAN	4 4 4	TWO TO FOUR YEARS
		710.281-030	INSTRUMENT TECHNICIAN	4 3 3	FOUR TO TEN YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	710.281-030	INSTRUMENT TECHNICIAN	4 3 3	FOUR TO TEN YEARS
15.0405	ROBOTICS TECHNOLOGY	*710.281-018	ELECTROMECHANICAL TECHNICIAN	4 4 4	TWO TO FOUR YEARS
47.0103	COMMUNICATION ELECTRONICS	719.381-014	HEARING-AID REPAIRER	4 3 3	ONE TO TWO YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	633.281-026	SCALE MECHANIC	4 3 3	TWO TO FOUR YEARS
		701.684-010	CALIBRATOR	2 1 2	THREE TO SIX MONTHS
		710.281-008	INSTRUMENT-TECHNICIAN APPRENTICE	4 3 3	FOUR TO TEN YEARS
		710.281-026	INSTRUMENT MECHANIC	4 3 4	TWO TO FOUR YEARS
		710.281-030	INSTRUMENT TECHNICIAN	4 3 3	FOUR TO TEN YEARS
		710.281-038	TAXIMETER REPAIRER	4 3 3	ONE TO TWO YEARS
		710.381-030	HYDROMETER CALIBRATOR	3 2 2	ONE TO TWO YEARS
		710.381-042	INSTRUMENT MECHANIC	4 3 3	30 TO 90 DAYS
		710.681-018	REGISTER REPAIRER	3 2 2	ONE TO TWO YEARS
		710.681-022	REPAIRER, GYROSCOPE	3 2 2	ONE TO TWO YEARS
		710.684-026	GAS-METER MECHANIC 2	2 1 1	30 TO 90 DAYS
		711.281-014	INSTRUMENT MECHANIC, WEAPONS SYSTEM	4 3 3	FOUR TO TEN YEARS
		729.281-014	ELECTRIC-METER REPAIRER	4 2 3	TWO TO FOUR YEARS
		729.281-018	ELECTRIC-METER-REPAIRER APPRENTICE	4 2 3	TWO TO FOUR YEARS
		729.281-026	ELECTRICAL-INSTRUMENT REPAIRER	4 3 3	ONE TO TWO YEARS
		729.281-034	INSIDE-METER TESTER	4 3 3	TWO TO FOUR YEARS
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	714.281-010	AIRCRAFT-PHOTOGRAPHIC-EQUIPMENT MEC	4 4 4	FOUR TO TEN YEARS

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OCCUPATION: 6171 CAMERA, WATCH, AND OTHER PRECISION INSTRUMENT REPAIR (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		714.281-014	CAMERA REPAIRER	4 4 4	FOUR TO TEN YEARS
		714.281-022	PHOTOGRAPHIC EQUIPMENT TECHNICIAN	4 4 4	FOUR TO TEN YEARS
		714.281-026	PHOTOGRAPHIC-EQUIPMENT-MAINTENANCE	4 3 4	TWO TO FOUR YEARS
		826.261-010	FIELD-SERVICE ENGINEER	4 4 3	FOUR TO TEN YEARS
47.0408	WATCH REPAIR	715.281-010	WATCH REPAIRER	4 3 3	FOUR TO TEN YEARS
		715.281-014	WATCH REPAIRER APPRENTICE	4 3 3	FOUR TO TEN YEARS
		715.584-014	REPAIRER, AUTO CLOCKS	2 1 1	30 TO 90 DAYS
		715.684-054	CASER	2 1 2	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	710.281-026	INSTRUMENT MECHANIC	4 3 4	TWO TO FOUR YEARS
		710.281-030	INSTRUMENT TECHNICIAN	4 3 3	FOUR TO TEN YEARS
47.0504	PUMPING PLANTS	710.684-026	GAS-METER MECHANIC 2	2 1 1	30 TO 90 DAYS
47.0604	AUTOMOTIVE MECHANICS	710.261-038	TAXIMETER REPAIRER	4 3 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6172

MUSICAL INSTRUMENT REPAIRERS AND TUNERS

These workers repair and tune all kinds of musical instruments, including pianos, harps, drums, and horns. Most specialize in one type of instrument. They examine and play the instruments to determine repairs needed. They may replace worn or broken parts, re-finish surfaces, glue cracked parts, replace strings, or reshape parts. They may cut out broken sections of instruments and carve replacement parts. They may clean, varnish, and buff instruments to protect and decorate them. They use handtools, tuning devices, and measuring instruments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
47.0404	MUSICAL INSTRUMENT REPAIR	730.281-014	ACCORDION REPAIRER	4	3	3	TWO TO FOUR YEARS
		730.281-026	FRETTED-INSTRUMENT REPAIRER	4	3	3	ONE TO TWO YEARS
		730.281-038	PIANO TECHNICIAN	3	2	2	TWO TO FOUR YEARS
		730.281-050	VIOLIN REPAIRER	4	2	2	TWO TO FOUR YEARS
		730.281-054	WIND-INSTRUMENT REPAIRER	4	2	2	TWO TO FOUR YEARS
		730.361-010	PIANO TUNER	3	2	3	SIX TO 12 MONTHS
		730.361-014	PIPE-ORGAN TUNER AND REPAIRER	4	3	3	FOUR TO TEN YEARS
		730.381-010	ACCORDION TUNER	3	2	2	ONE TO TWO YEARS
		730.381-026	HARP REGULATOR	3	2	1	ONE TO TWO YEARS
		730.381-034	METAL-REED TUNER	3	2	2	TWO TO FOUR YEARS
		730.381-038	ORGAN-PIPE VOICER	4	2	2	TWO TO FOUR YEARS
		730.381-042	PERCUSSION-INSTRUMENT REPAIRER	3	2	2	ONE TO TWO YEARS
		730.381-058	TUNER, PERCUSSION	3	2	2	ONE TO TWO YEARS
		730.681-010	PIANO REGULATOR-INSPECTOR	3	2	3	SIX TO 12 MONTHS
		730.684-022	BOW REPAIRER	3	1	1	ONE TO TWO YEARS
		730.684-026	CHIP TUNER	3	2	3	30 TO 90 DAYS
		730.684-094	TONE REGULATOR	2	1	1	THREE TO SIX MONTHS

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OCCUPATION: 6173

LOCKSMITHS AND SAFE REPAIRERS

These people work with locks, keys, safes, vaults, and alarm systems. LOCKSMITHS help people get into cars, buildings, or safes that have been locked by accident or that have broken locks. They may pick locks, make duplicate keys or open locks by listening to the lock dial as it rotates. They also repair and replace worn tumblers, springs, and other parts of locks. SAFE REPAIRERS install and repair safes and vaults. They follow blueprints and use handtools and power tools and machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0403	LOCKSMITHING AND SAFE REPAIR	709.281-010	LOCKSMITH	4 3 3	ONE TO TWO YEARS
		709.281-014	LOCKSMITH APPRENTICE	4 3 3	ONE TO TWO YEARS
		869.381-022	SAFE-AND-VAULT SERVICE MECHANIC	3 3 3	TWO TO FOUR YEARS

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OCCUPATION: 6174

OFFICE MACHINE REPAIRERS

These workers install, service, and repair office machines, such as typewriters, adding machines, cash registers, and copiers. They make regular visits to offices and stores in an assigned area to service customers' machines. They also handle emergency break-downs. They use handtools, powertools, blueprints, and electrical test equipment. Many specialize in one type of machine.

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CODE	TITLE	CODE	TITLE	R	M L	
47.0102	BUSINESS MACHINE REPAIR	633.261-014	MAIL-PROCESSING-EQUIPMENT MECHANIC	4	3 3	ONE TO TWO YEARS
		633.281-010	CASH-REGISTER SERVICER	4	3 3	TWO TO FOUR YEARS
		633.281-014	DICTATING-TRANSCRIBING-MACHINE SERV	4	3 3	TWO TO FOUR YEARS
		633.281-018	OFFICE-MACHINE SERVICER	4	3 3	TWO TO FOUR YEARS
		633.281-022	OFFICE-MACHINE-SERVICER APPRENTICE	4	3 3	TWO TO FOUR YEARS
		633.281-030	STATISTICAL-MACHINE SERVICER	4	3 3	TWO TO FOUR YEARS
		706.381-010	ALINER, TYPEWRITER	3	2 2	THREE TO SIX MONTHS
		706.381-030	REPAIRER, TYPEWRITER	3	2 3	ONE TO TWO YEARS

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OCCUPATION: 6175

MECHANICAL CONTROLS AND VALVE REPAIRERS

These workers install, repair, and adjust mechanical control devices, such as gas regulators, thermostats (temperature control devices), and safety valves. These devices are used in a variety of equipment, including aircraft, power tools, and home appliances. They use handtools and may use power equipment such as metalworking machines, lathes, and grinders. They inspect equipment for defects, clean and repair parts, and may make replacement parts. They often work from blueprints or drawings and use precision instruments to test assemblies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	621.281-030	ROCKET-ENGINE-COMPONENT MECHANIC	4 4 4	TWO TO FOUR YEARS
		621.381-018	MECHANIC, FLOWMETER TEST AND CERTIF	4 3 3	TWO TO FOUR YEARS
		709.684-070	SALVAGER	3 2 2	SIX TO 12 MONTHS
		821.361-014	ELECTRIC-METER INSTALLER 1	4 4 3	TWO TO FOUR YEARS
		821.684-010	ELECTRIC-METER INSTALLER 2	3 3 2	THREE TO SIX MONTHS
		962.684-018	MOTOR-POWER CONNECTOR	3 1 1	SIX TO 12 MONTHS
15.0403	ELECTROMECHANICAL TECHNOLOGY	953.281-010	FIELD-MECHANICAL-METER TESTER	4 4 4	FOUR TO TEN YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	630.381-014	DOOR-CLOSER MECHANIC	3 3 3	TWO TO FOUR YEARS
		637.261-022	INDUSTRIAL-GAS SERVICER	4 3 3	TWO TO FOUR YEARS
		829.281-010	AUTOMATIC-DOOR MECHANIC	3 2 2	ONE TO TWO YEARS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	637.261-022	INDUSTRIAL-GAS SERVICER	4 3 3	TWO TO FOUR YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	621.381-018	MECHANIC, FLOWMETER TEST AND CERTIF	4 3 3	TWO TO FOUR YEARS
		621.381-022	PNEUMATIC TESTER AND MECHANIC	3 3 3	ONE TO TWO YEARS
		622.381-010	AIR-VALVE REPAIRER	3 2 2	ONE TO TWO YEARS
		630.381-030	VALVE REPAIRER	3 3 3	ONE TO TWO YEARS
		637.261-022	INDUSTRIAL-GAS SERVICER	4 3 3	TWO TO FOUR YEARS
		710.281-022	GAS-METER PROVER	3 3 3	TWO TO FOUR YEARS
		710.281-034	METER REPAIRER	4 2 3	SIX TO 12 MONTHS
		710.381-022	GAS-METER MECHANIC 1	3 3 3	SIX TO 12 MONTHS
		710.381-026	GAS-REGULATOR REPAIRER	4 3 3	TWO TO FOUR YEARS
		710.381-050	THERMOSTAT REPAIRER	3 2 2	SIX TO 12 MONTHS
		953.281-010	FIELD-MECHANICAL-METER TESTER	4 4 4	FOUR TO TEN YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	952.464-010	CABLE MAINTAINER	3 3 3	SIX TO 12 MONTHS
		959.361-010	CUSTOMER SERVICE REPRESENTATIVE	3 2 3	ONE TO TWO YEARS
		959.574-010	SERVICE REPRESENTATIVE	3 2 2	30 TO 90 DAYS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*621.381-018	MECHANIC, FLOWMETER TEST AND CERTIF	4 3 3	TWO TO FOUR YEARS
		*621.381-022	PNEUMATIC TESTER AND MECHANIC	3 3 3	ONE TO TWO YEARS

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OCCUPATION: 6176

ELEVATOR INSTALLERS AND REPAIRERS

These workers install, repair, and service elevators, escalators, and similar equipment. They install this equipment during construction and replace and repair equipment already in place in buildings. To install elevators, they erect steel frames and bolt heavy steel guide rails to shaft walls. They install electrical wires and controls, circuit breakers, and switches. They also assemble elevator cars and car platforms. They use many different handtools, power tools, and testing meters and gauges.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	825.361-010	ELEVATOR CONSTRUCTOR	4 3 3 TWO TO FOUR YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	825.281-030	ELEVATOR REPAIRER	4 3 3 TWO TO FOUR YEARS
		825.281-034	ELEVATOR-REPAIRER APPRENTICE	4 3 3 TWO TO FOUR YEARS

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OCCUPATION: 6177

RIGGERS

RIGGERS set up and repair ropes, chains, and other devices used to support and position equipment and materials. Some install and repair rigging used on ships to lift and move heavy loads or support masts and sails. In other jobs, they assemble rigging to lift and move equipment, materials, and workers at plants, shipyards, and construction sites. ACROBATIC RIGGERS put up equipment for aerial and acrobatic acts in circuses, carnivals, and other shows. RIGGERS use many different kinds of tools and equipment to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
00.0000 NO CIP ASSIGNED	962.684-010 ACROBATIC RIGGER	3 1 1	ONE TO TWO YEARS
49.0202 CONSTRUCTION EQUIPMENT OPERATION	921.260-010 RIGGER	4 2 2	ONE TO TWO YEARS
49.0306 MARINE MAINTENANCE	806.261-014 RIGGER	4 2 2	TWO TO FOUR YEARS
	806.261-018 RIGGER APPRENTICE	4 2 2	TWO TO FOUR YEARS

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OCCUPATION: 6178

MILLWRIGHTS

MILLWRIGHTS install, repair, and maintain complex machinery. They perform all tasks required to prepare machinery for use in plants. This may include building concrete or wooden platforms on which heavy machines are mounted, building structures, or directing workers to do the jobs. They work from blueprints and use all types of building materials and tools. They do a variety of installation work or specialize in certain types of machinery. They may take apart old equipment to make room for new machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	638.261-010	AUTOMATED EQUIPMENT ENGINEER-TECHNI	4 4 4	TWO TO FOUR YEARS
15.0603	INDUSTRIAL TECHNOLOGY	638.261-010	AUTOMATED EQUIPMENT ENGINEER-TECHNI	4 4 4	TWO TO FOUR YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	638.261-010	AUTOMATED EQUIPMENT ENGINEER-TECHNI	4 4 4	TWO TO FOUR YEARS
		638.261-014	MACHINERY ERECTOR	4 4 4	FOUR TO TEN YEARS
		638.261-018	MANUFACTURER'S SERVICE REPRESENTATI	4 3 3	FOUR TO TEN YEARS
		638.281-014	MAINTENANCE MECHANIC	4 3 3	TWO TO FOUR YEARS
		638.281-018	MILLWRIGHT	4 3 3	TWO TO FOUR YEARS
		638.281-022	MILLWRIGHT APPRENTICE	4 3 3	TWO TO FOUR YEARS
		638.361-010	MACHINE ASSEMBLER	3 3 3	ONE TO TWO YEARS

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OCCUPATION: 6179

MECHANICS AND REPAIRERS, N.E.C.

Workers in these jobs repair and service a wide variety of equipment. For example, some service machine guns and other weapons used by the military. Some repair department store mannequins. Some repair survival equipment, such as life rafts and pressure suits. Some salvage usable parts from wrecked cars, or repair and reline ladles used to pour hot metals. Most use handtools, and some use power tools and machinery as well.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	557.684-010	JET HANDLER	2 1 1	THREE TO SIX MONTHS
		610.381-010	BLACKSMITH	4 3 2	TWO TO FOUR YEARS
		610.381-014	BLACKSMITH APPRENTICE	4 3 2	TWO TO FOUR YEARS
		623.281-014	DEEP SUBMERGENCE VEHICLE CREWMEMBER	4 3 3	SIX TO 12 MONTHS
		632.261-010	AIRCRAFT-ARMAMENT MECHANIC	4 3 3	ONE TO TWO YEARS
		632.261-014	FIRE-CONTROL MECHANIC	4 3 3	ONE TO TWO YEARS
		632.261-018	ORDNANCE ARTIFICER	4 4 4	ONE TO TWO YEARS
		705.684-042	MOTHER REPAIRER	3 2 2	THREE TO SIX MONTHS
		709.384-010	FIRE-EXTINGUISHER REPAIRER	3 2 2	30 TO 90 DAYS
		709.684-034	CIGARETTE-LIGHTER REPAIRER	2 1 2	30 TO 90 DAYS
		731.684-014	DOLL REPAIRER	2 1 1	30 TO 90 DAYS
		733.384-010	REPAIRER, PENS AND PENCILS	3 2 3	30 TO 90 DAYS
		733.684-014	PEN-AND-PENCIL REPAIRER	3 1 2	THREE TO SIX MONTHS
		739.381-034	FIGURE REFINISHER AND REPAIRER	3 2 2	SIX TO 12 MONTHS
		739.484-014	FIRE-EQUIPMENT INSPECTOR	3 2 3	THREE TO SIX MONTHS
		739.684-030	BUFFING-AND-POLISHING-WHEEL REPAIRER	2 1 1	30 TO 90 DAYS
		739.684-134	NEEDLE-BOARD REPAIRER	2 1 2	30 TO 90 DAYS
		741.684-030	PORCELAIN-ENAMEL REPAIRER	3 1 1	UP TO 30 DAYS
		750.681-010	TIRE REPAIRER	3 1 2	30 TO 90 DAYS
		750.684-050	TUBE REPAIRER	2 1 1	30 TO 90 DAYS
		754.684-046	PLASTICS REPAIRER	2 1 2	30 TO 90 DAYS
		759.384-010	SELF-SEALING-FUEL-TANK REPAIRER	2 1 1	THREE TO SIX MONTHS
		759.664-010	BRAIDER SETTER	2 1 1	UP TO 30 DAYS
		759.684-026	DEICER REPAIRER	2 1 2	THREE TO SIX MONTHS
		759.684-042	MAT REPAIRER	2 1 1	UP TO 30 DAYS
		759.684-054	RUBBER-GOODS REPAIRER	3 1 1	THREE TO SIX MONTHS
		764.684-022	COOPER	3 1 1	ONE TO TWO YEARS
		764.684-026	HOGSHEAD COOPER 1	2 1 1	UP TO 30 DAYS
		769.684-038	REPAIRER, ASSEMBLED WOOD PRODUCTS	3 1 2	SIX TO 12 MONTHS
		779.381-013	REPAIRER, ART OBJECTS	4 3 3	TWO TO FOUR YEARS
		782.684-010	CANVAS REPAIRER	2 1 1	THREE TO SIX MONTHS
		782.684-022	FABRIC WORKER	3 1 2	SIX TO 12 MONTHS
		789.684-038	PARACHUTE MENDER	3 1 1	30 TO 90 DAYS
		794.684-010	BAG REPAIRER	2 1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R M L	
		825.281-038	EXPERIMENTAL-ROCKET-SLED MECHANIC	4 3 3	TWO TO FOUR YEARS
		828.281-018	MISSILE FACILITIES REPAIRER	3 3 3	THREE TO SIX MONTHS
		891.684-018	SWIMMING-POOL SERVICER	3 1 2	THREE TO SIX MONTHS
		899.384-010	TRANSPORTATION-EQUIPMENT-MAINTENANC	3 2 3	SIX TO 12 MONTHS
		962.684-014	GRIP	3 2 2	SIX TO 12 MONTHS
01.0203	AGRICULTURAL MECHANICS, CONSTRUCTION AND	701.381-010	REPAIRER, HANDTOOLS	3 2 2	SIX TO 12 MONTHS
01.0204	AGRICULTURAL POWER MACHINERY	630.684-018	PUMP INSTALLER	3 2 3	SIX TO 12 MONTHS
01.0205	AGRICULTURAL STRUCTURES, EQUIPMENT, AND	899.381-610	MAINTENANCE REPAIRER, BUILDING	4 3 3	TWO TO FOUR YEARS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	639.281-022	MEDICAL-EQUIPMENT REPAIRER	3 2 3	SIX TO 12 MONTHS
		719.261-010	BIOMEDICAL EQUIPMENT TECHNICIAN	5 5 3	TWO TO FOUR YEARS
		719.261-014	RADIOLOGICAL-EQUIPMENT SPECIALIST	5 5 5	TWO TO FOUR YEARS
		829.261-014	DENTAL-EQUIPMENT INSTALLER AND SERV	4 4 3	ONE TO TWO YEARS
15.0402	COMPUTER SERVICING TECHNOLOGY	714.281-030	SERVICE TECHNICIAN, COMPUTERIZED-PH	4 3 4	ONE TO TWO YEARS
15.0801	AERONAUTICAL TECHNOLOGY	825.281-038	EXPERIMENTAL-ROCKET-SLED MECHANIC	4 3 3	TWO TO FOUR YEARS
20.0302	CLOTHING MAINTENANCE AIDE	787.682-030	MENDER	3 1 2	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	782.684-038	MATCH-UP WORKER	2 1 1	THREE TO SIX MONTHS
		782.684-046	MENDER, KNIT GOODS	3 1 1	30 TO 90 DAYS
		784.684-046	MENDER	2 1 1	30 TO 90 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	787.682-030	MENDER	3 1 2	THREE TO SIX MONTHS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.684-122	UPHOLSTERY REPAIRER	3 1 1	ONE TO TWO YEARS
43.0203	FIREFIGHTING	638.281-010	FIRE-FIGHTING-EQUIPMENT SPECIALIST	4 3 4	TWO TO FOUR YEARS
46.0201	CARPENTRY	899.684-042	WINDOW REPAIRER	2 1 1	THREE TO SIX MONTHS
46.0401	BUILDING AND PROPERTY MAINTENANCE	869.261-022	REPAIRER, RECREATIONAL VEHICLE	4 3 3	ONE TO TWO YEARS
		869.384-010	REPAIRER, MANUFACTURED BUILDINGS	3 2 2	THREE TO SIX MONTHS
		899.381-010	MAINTENANCE REPAIRER, BUILDING	4 3 3	TWO TO FOUR YEARS
		899.684-042	WINDOW REPAIRER	2 1 1	THREE TO SIX MONTHS
47.0104	COMPUTER ELECTRONICS	714.281-030	SERVICE TECHNICIAN, COMPUTERIZED-PH	4 3 4	ONE TO TWO YEARS
47.0105	INDUSTRIAL ELECTRONICS	714.281-030	SERVICE TECHNICIAN, COMPUTERIZED-PH	4 3 4	ONE TO TWO YEARS

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		823.281-018	METEOROLOGICAL-EQUIPMENT REPAIRER	4 3 3	TWO TO FOUR YEARS
47.0106	MAJOR APPLIANCE REPAIR	637.261-018	GAS-APPLIANCE SERVICER	4 3 3	TWO TO FOUR YEARS
		638.281-030	HYDRAULIC-RUBBISH-COMPACTOR MECHANIC	4 3 3	FOUR TO TEN YEARS
		639.281-022	MEDICAL-EQUIPMENT REPAIRER	3 2 3	SIX TO 12 MONTHS
		829.261-014	DENTAL-EQUIPMENT INSTALLER AND SERV	4 4 3	ONE TO TWO YEARS
47.0109	VENDING AND RECREATIONAL MACHINE REPAIR	638.261-022	PINSETTER MECHANIC, AUTOMATIC	3 2 2	THREE TO SIX MONTHS
		639.281-014	COIN-MACHINE-SERVICE REPAIRER	3 3 3	SIX TO 12 MONTHS
		709.364-014	TOWEL-CABINET REPAIRER	2 1 2	30 TO 90 DAYS
		829.381-010	PINSETTER ADJUSTER, AUTOMATIC	4 3 3	ONE TO TWO YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REPAIR	628.684-010	BINDER AND BOX BUILDER	2 1 2	UP TO 30 DAYS
		630.684-018	PUMP INSTALLER	3 2 3	SIX TO 12 MONTHS
		630.684-038	WHEEL-AND-CASTER REPAIRER	2 1 2	UP TO 30 DAYS
		701.381-010	REPAIRER, HANDTOOLS	3 2 2	SIX TO 12 MONTHS
		701.384-010	TOOL-MAINTENANCE WORKER	2 1 1	30 TO 90 DAYS
		827.381-014	WIND-TUNNEL MECHANIC	3 3 2	TWO TO FOUR YEARS
		862.684-030	WATER REGULATOR AND VALVE REPAIRER	3 2 2	SIX TO 12 MONTHS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	862.684-030	WATER REGULATOR AND VALVE REPAIRER	3 2 2	SIX TO 12 MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMATIC	710.384-026	PARKING-METER SERVICER	3 2 2	THREE TO SIX MONTHS
		729.384-014	FARE-REGISTER REPAIRER	3 2 2	ONE TO TWO YEARS
47.0402	GUNSMITHING	632.281-010	GUNSMITH	4 3 3	FOUR TO TEN YEARS
		632.381-010	GUN SYNCHRONIZER	3 3 3	SIX TO 12 MONTHS
		669.360-010	CHECKERING-MACHINE ADJUSTER	3 2 1	TWO TO FOUR YEARS
		736.684-022	BARREL REPAIRER	2 1 1	SIX TO 12 MONTHS
		761.684-042	STOCK PATCHER	3 1 1	30 TO 90 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	639.681-010	BICYCLE REPAIRER	3 2 3	THREE TO SIX MONTHS
		732.381-022	GOLF-CLUB REPAIRER	3 2 2	ONE TO TWO YEARS
		732.684-102	ROLLER-SKATE REPAIRER	2 2 1	THREE TO SIX MONTHS
		732.684-122	SPORTS-EQUIPMENT REPAIRER	3 2 2	THREE TO SIX MONTHS
		739.381-054	SURVIVAL-EQUIPMENT REPAIRER	3 2 2	ONE TO TWO YEARS
47.0504	PUMPING PLANTS	637.281-010	PUMP ERECTOR	4 3 3	ONE TO TWO YEARS
47.0603	AUTOMOTIVE BODY REPAIR	620.684-010	AUTOMOBILE WRECKER	3 2 2	THREE TO SIX MONTHS
		809.684-034	REPAIRER, FINISHED METAL	3 1 1	SIX TO 12 MONTHS
47.0604	AUTOMOTIVE MECHANICS	915.684-010	TIRE REPAIRER	2 1 1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6179 MECHANICS AND REPAIRERS, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*621.684-014	RECLAMATION WORKER	3	2 2	THREE TO SIX MONTHS
		*806.381-010	AIRCRAFT MECHANIC, ARMAMENT	4	3 3	TWO TO FOUR YEARS
		*807.381-014	BONDED STRUCTURES REPAIRER	3	2 2	ONE TO TWO YEARS
		*825.281-038	EXPERIMENTAL-ROCKET-SLED MECHANIC	4	3 3	TWO TO FOUR YEARS
		*827.381-014	WIND-TUNNEL MECHANIC	3	3 2	TWO TO FOUR YEARS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	621.684-014	RECLAMATION WORKER	3	2 2	THREE TO SIX MONTHS
48.0202	BOOKBINDING	977.684-010	BOOK REPAIRER	2	1 1	30 TO 90 DAYS
48.0209	SILK SCREEN MAKING AND PRINTING	979.684-038	SILK-SCREEN REPAIRER	3	2 1	30 TO 90 DAYS
48.0303	UPHOLSTERING	780.684-122	UPHOLSTERY REPAIRER	3	1 1	ONE TO TWO YEARS
48.0304	SHOE AND BOOT REPAIR	739.684-106	LAST REMODELER-REPAIRER	3	2 2	THREE TO SIX MONTHS
		739.684-110	LAST REPAIRER	2	1 1	30 TO 90 DAYS
		753.684-026	REPAIRER	2	1 1	THREE TO SIX MONTHS
		788.684-022	BLEMISH REMOVER	2	1 1	THREE TO SIX MONTHS
		788.684-046	FINGER COBBLER	3	1 2	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	518.684-026	WAX-PATTERN REPAIRER	2	1 1	UP TO 30 DAYS
		519.684-010	LADLE LINER	2	1 1	30 TO 90 DAYS
		519.684-026	TOOL REPAIRER	3	1 1	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	619.281-010	CASTING REPAIRER	3	3 3	ONE TO TWO YEARS
48.0702	FURNITURE MAKING	763.681-010	FRAME REPAIRER	3	3 2	ONE TO TWO YEARS
		763.684-022	CANER 2	2	1 1	30 TO 90 DAYS
		763.684-034	FINISH PATCHER	3	1 2	30 TO 90 DAYS
48.0703	MILLWORK AND CABINET MAKING	669.360-010	CHECKERING-MACHINE ADJUSTER	3	2 1	TWO TO FOUR YEARS
		739.484-018	SMOKING-PIPE REPAIRER	3	2 2	SIX TO 12 MONTHS
49.0304	DEEP WATER DIVING AND LIFE SUPPORT SYSTEMS	899.261-010	DIVER	4	3 3	TWO TO FOUR YEARS
49.0306	MARINE MAINTENANCE	623.381-010	GEAR REPAIRER	3	2 3	ONE TO TWO YEARS
		806.261-026	MARINE-SERVICES TECHNICIAN	4	3 3	TWO TO FOUR YEARS
		807.361-014	BOAT REPAIRER	4	3 3	TWO TO FOUR YEARS
		807.684-014	BOAT PATCHER, PLASTIC	3	1 1	THREE TO SIX MONTHS
		891.684-010	DOCK HAND	2	1 2	30 TO 90 DAYS

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OCCUPATION: 6299

CONSTRUCTION AND EXTRACTIVE OCCUPATIONS

These workers build and repair structures or remove resources from the ground. They use handtools and heavy equipment which they set up and maintain. They may build houses, construct steel frames for high-rise buildings, or build bridges and roads. Others may wire or plumb buildings, or do finishing work. Workers in extractive occupations may mine for coal, set explosives to loosen earth, or locate and drill for oil deposits.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6300

SUPERVISORS: CONSTRUCTION AND EXTRACTIVE OCCUPATIONS

These workers supervise the activities of workers or crews who build structures or extract resources from the earth. They determine the workers, materials, and supplies needed to meet work schedules or complete a job. They assign duties and check work. They study work orders, keep work records, and enforce safety rules. They may hire and fire workers, set up and help maintain equipment, and perform some of the duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6310

SUPERVISORS: CONSTRUCTION

These workers supervise the activities of other construction workers. They may supervise overall construction crew activities or they may supervise workers in a particular trade such as carpentry or bricklaying. Supervisors determine the workers, materials, and supplies needed to meet work schedules. They assign duties and check work to insure that it meets company standards and construction codes. They hire workers, enforce rules, and keep records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6311

SUPERVISORS: OVERALL CONSTRUCTION

These workers supervise and coordinate the activities of construction crews. They study work assignments and determine the workers, materials, and supplies needed to meet work schedules. They interpret work orders, specifications, and technical drawings. They train new workers, assign duties, review completed work, and solve work problems. They order materials and supplies, keep work records, set up equipment, and may perform many of the tasks of the crew members. They also prepare progress reports and recommend ways to improve work methods and conditions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	899.134-010	HIGHWAY-MAINTENANCE SUPERVISOR	4 3 3	FOUR TO TEN YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	899.131-010	LABOR-CREW SUPERVISOR	4 3 3	FOUR TO TEN YEARS
46.0401	BUILDING AND PROPERTY MAINTENANCE	899.131-018	UTILITIES-AND-MAINTENANCE SUPERVISO	4 3 3	FOUR TO TEN YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	869.367-010	ASSISTANT CONSTRUCTION SUPERINTENDE	3 3 3	TWO TO FOUR YEARS
49.0204	MINING EQUIPMENT OPERATION	859.137-018	SUPERVISOR, TUNNEL HEADING	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6312

SUPERVISORS: BRICKMASONS, STONEMASONS, AND HARD TILE SETTERS

These people supervise workers who build or repair structures such as walls, walks, and chimneys. They determine the workers and materials needed to complete assignments, plan work methods and procedures, assign duties, and check the quality of work done. They train workers, interpret work drawings, and enforce safety rules. They solve difficult work problems and may perform many of the tasks of the workers they supervise. They may also hire and fire workers, order supplies, set up equipment, keep work records, and write progress reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	801.131-010	SUPERVISOR, CHIMNEY CONSTRUCTION	4 3 2	FOUR TO TEN YEARS
		861.131-014	CHIMNEY SUPERVISOR, BRICK	4 3 3	FOUR TO TEN YEARS
		861.131-018	STONEMASON SUPERVISOR	4 3 3	FOUR TO TEN YEARS
		861.131-022	SUPERVISOR, MARBLE	4 3 3	FOUR TO TEN YEARS
		861.131-026	SUPERVISOR, TERRAZZO	4 3 3	FOUR TO TEN YEARS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	861.131-010	BRICKLAYER SUPERVISOR	4 3 3	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6313

SUPERVISORS: CARPENTERS AND RELATED WORKERS

These people supervise workers who build, install, and repair wooden structures. They study work assignments and determine the workers, materials, and supplies needed to complete them. They plan work methods and procedures, order supplies, assign duties, and check work to see that standards are met. They train workers, interpret blueprints, and enforce safety rules. They solve work problems and may perform duties of the workers they supervise. They also evaluate worker performance, prepare progress reports, and keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	842.131-010	SUPERVISOR, DRY-WALL APPLICATION	4 3 3	TWO TO FOUR YEARS
		842.131-014	SUPERVISOR, LATHING	4 3 3	FOUR TO TEN YEARS
		842.134-010	SUPERVISOR, TAPING	4 3 3	ONE TO TWO YEARS
		860.131-010	SUPERVISOR, ACOUSTICAL TILE CARPENT	4 4 3	FOUR TO TEN YEARS
		860.131-014	SUPERVISOR, BOATBUILDERS, WOOD	4 4 3	FOUR TO TEN YEARS
		860.131-018	SUPERVISOR, CARPENTERS	4 4 3	FOUR TO TEN YEARS
		860.131-022	SUPERVISOR, JOINERS	4 4 3	FOUR TO TEN YEARS
		860.131-026	SUPERVISOR, MOLD CONSTRUCTION	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6314

SUPERVISORS: ELECTRICIANS AND POWER TRANSMISSION INSTALLERS

These people supervise workers who install and repair wiring and electrical equipment. They study assignments and determine the workers, materials, and supplies needed to complete them. They plan work methods and procedures, order supplies, assign duties, and check to see that finished work meets set standards. They train new workers and enforce safety rules. They interpret blueprints and diagrams and handle difficult work problems. They evaluate worker performance, prepare progress reports, and may perform tasks of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	825.131-010	ELECTRICIAN SUPERVISOR	4 3 3	FOUR TO TEN YEARS
		829.131-014	ELECTRICIAN SUPERVISOR	4 4 3	FOUR TO TEN YEARS

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OCCUPATION: 6315

SUPERVISORS: PAINTERS, PAPERHANGERS, AND PLASTERERS

These people supervise the activities of workers who paint, plaster, or hang wallpaper. They study work schedules and decide how many workers will be needed to complete different jobs. They explain tasks to workers, assign duties, check work, explain company policies, and enforce safety rules. They help workers solve problems and may work along with them, hire and fire workers, or recommend them for promotion. They also train new workers, keep work records, and order materials and supplies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	840.131-010	SUPERVISOR, PAINTING	4 3 3	FOUR TO TEN YEARS
		840.131-014	SUPERVISOR, PAINTING, SHIPYARD	4 3 3	FOUR TO TEN YEARS
		842.131-018	SUPERVISOR, PLASTERING	4 3 3	TWO TO FOUR YEARS
09.0201	ADVERTISING	841.137-010	SUPERVISOR, BILLPOSTING	4 2 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6316

SUPERVISORS: PLUMBERS, PIPEFITTERS, AND STEAMFITTERS

These people supervise workers who install and repair pipes, fittings, and fixtures for gas, oil, water, steam, and waste disposal systems. They plan work schedules, order materials and supplies, and hire and train new workers. They assign duties, check work for quality, enforce company rules, and keep work records. They follow blueprints and use precision measuring tools to plan and check work. They also solve difficult work problems and may perform duties of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	862.131-014	PIPE-FITTER SUPERVISOR	4 3 3	FOUR TO TEN YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	862.131-010	PIPE-FITTER SUPERVISOR	4 3 3	FOUR TO TEN YEARS
		862.131-018	PLUMBER SUPERVISOR	4 3 3	FOUR TO TEN YEARS
		862.131-022	SUPERVISOR, PIPE-LINES	4 3 3	TWO TO FOUR YEARS
		862.134-014	SUPERVISOR, WATER SOFTENER SERVICE	4 3 4	FOUR TO TEN YEARS

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OCCUPATION: 6318

SUPERVISORS: OTHER CONSTRUCTION TRADES

These people supervise workers who build chimneys, erect structures, move houses, mix concrete, or do similar work at building or mining sites. They study assignments and determine the workers, materials, and supplies needed to complete them. They assign duties to workers and check work for quality. They train new workers, explain company policies, and enforce safety rules. They handle work problems, prepare progress or other reports, and may hire and fire workers. They may set up machines and equipment and often perform some or many of the tasks of the workers they supervise.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	184.167-234	SUPERVISOR OF WAY	5	5	4 TWO TO FOUR YEARS
		809.131-018	SUPERVISOR, STRUCTURAL-STEEL ERECTI	4	3	3 FOUR TO TEN YEARS
		859.133-010	SUPERVISOR, RIGHT-OF-WAY MAINTENANC	4	3	3 TWO TO FOUR YEARS
		869.131-010	CABIN-EQUIPMENT SUPERVISOR	4	3	3 TWO TO FOUR YEARS
		869.131-022	HOUSE-MOVER SUPERVISOR	4	3	3 TWO TO FOUR YEARS
		869.131-034	TANKAGE SUPERVISOR	4	3	3 TWO TO FOUR YEARS
		955.133-010	SANITARY-LANDFILL SUPERVISOR	4	3	3 TWO TO FOUR YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	863.134-014	SUPERVISOR, INSULATION	4	3	3 FOUR TO TEN YEARS
		865.131-010	GLAZIER SUPERVISOR	4	3	3 TWO TO FOUR YEARS
		866.131-010	ROOFING SUPERVISOR	4	2	3 TWO TO FOUR YEARS
		869.131-014	CONCRETING SUPERVISOR	4	3	3 TWO TO FOUR YEARS
		869.131-018	FIELD-ASSEMBLY SUPERVISOR	4	3	3 TWO TO FOUR YEARS
		869.131-038	SUPERVISOR, SWIMMING-POOL MAINTENAN	4	3	3 TWO TO FOUR YEARS
15.0901	COAL MINING TECHNOLOGY	850.133-010	SUPERVISOR, RECLAMATION	4	3	4 TWO TO FOUR YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.137-010	SUPERVISOR, CORE DRILLING	4	3	3 TWO TO FOUR YEARS
		859.137-014	SUPERVISOR, PILE DRIVING	4	3	3 FOUR TO TEN YEARS

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OCCUPATION: 6320

SUPERVISORS: EXTRACTIVE OCCUPATIONS

These people supervise workers who drill oil wells or blast and cut materials to be mined. They study production schedules, determine the workers and equipment required, and plan work procedures and schedules. They interpret job orders, assign duties, and enforce safety rules. They also help solve work problems and check work for quality. They keep time and production records, and may order materials and supplies. They also may hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	930.134-010	QUARRY SUPERVISOR, DIMENSION STONE	4	3	3	ONE TO TWO YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	939.132-014	OIL-WELL-SERVICES SUPERVISOR	4	3	3	FOUR TO TEN YEARS
15.0901	COAL MINING TECHNOLOGY	932.132-010	BANK BOSS	4	3	3	TWO TO FOUR YEARS
		932.132-014	SURFACE SUPERVISOR	4	3	4	FOUR TO TEN YEARS
15.0902	MINING (EXCLUDING COAL) TECHNOLOGY	939.131-010	QUARRY SUPERVISOR, OPEN PIT	4	3	3	TWO TO FOUR YEARS
		939.137-022	SUPERVISOR, HARVESTING	3	3	3	SIX TO 12 MONTHS
15.0903	PETROLEUM TECHNOLOGY	930.130-010	TOOL PUSHER	4	2	3	FOUR TO TEN YEARS
		930.131-010	FIELD SUPERVISOR, OIL-WELL SERVICES	4	3	3	TWO TO FOUR YEARS
		939.132-014	OIL-WELL-SERVICES SUPERVISOR	4	3	3	FOUR TO TEN YEARS
49.0204	MINING EQUIPMENT OPERATION	932.132-010	BANK BOSS	4	3	3	TWO TO FOUR YEARS
		932.132-014	SURFACE SUPERVISOR	4	3	4	FOUR TO TEN YEARS
		939.131-010	QUARRY SUPERVISOR, OPEN PIT	4	3	3	TWO TO FOUR YEARS
		939.132-010	DREDGE OPERATOR SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		939.137-022	SUPERVISOR, HARVESTING	3	3	3	SIX TO 12 MONTHS
49.0302	BARGE AND BOAT OPERATIONS	939.132-010	DREDGE OPERATOR SUPERVISOR	4	3	3	TWO TO FOUR YEARS

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OCCUPATION: 6400

CONSTRUCTION TRADES

These workers build and repair buildings and other structures. They may work as bricklayers or stone masons, building walls, sewers, smokestacks, abutments, or piers. Others may be tilesetters who apply ceramic tile to walls, floors, and ceilings to create decorative coverings. Carpenters build and repair wooden structures such as house frameworks, doors, cabinets, and stairs. Some workers install drywall, which may be used instead of plaster on ceilings and walls.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6410

BRICKMASONS, STONEMASONS, AND HARD TILE SETTERS

Workers in these occupations use various materials to build and decorate structures. They may use brick, concrete, or cinder blocks to build or repair walls, sewers, boilers, furnaces, or smokestacks. They may use stone to build or repair walls, abutments, or piers. Decorative work is done by hard tile setters who apply ceramic tile to walls, floors, and ceilings. Workers use mortar to secure brick and stone. They use cement with tile. Some stone is bolted into place.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6412

BRICKMASONS

BRICKMASONS lays bricks, concrete and set cinder blocks, and similar materials to build and repair walls, sewers, boilers, furnaces, smokestacks, and structures. To put up a wall, they first build the corners at each end of the wall and stretch a line between the corners to serve as a guide for laying the brick. They spread a bed of mortar (cement mixture) with a trowel (a flat metal tool), place bricks on the mortar bed, and then tap them into place. They cut bricks with a hammer and chisel to fit around corners.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	709.684-046	HOT-TOP LINER	2 1 1	30 TO 90 DAYS
		861.381-010	ACID-TANK LINER	4 3 3	TWO TO FOUR YEARS
		861.381-014	BRICKLAYER	3 2 2	FOUR TO TEN YEARS
		861.381-018	BRICKLAYER	4 3 3	FOUR TO TEN YEARS
		861.381-022	BRICKLAYER APPRENTICE	4 3 3	FOUR TO TEN YEARS
		861.381-026	BRICKLAYER, FIREBRICK AND REFRACTOR	4 3 3	FOUR TO TEN YEARS
		861.684-010	CUPOLA PATCHER	3 1 1	THREE TO SIX MONTHS
		861.684-014	PATCHER	2 1 1	THREE TO SIX MONTHS
		869.381-030	STEEPLE JACK	3 3 3	TWO TO FOUR YEARS
		899.364-010	CHIMNEY REPAIRER	3 2 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6413

STONEMASONS

STONEMASONS build and repair stone structures such as walls, abutments, and piers. They also lay walls, curbstones, and special types of masonry for vats, tanks, and floors. They may work from drawings in which each stone has been marked for placement. To build a stone wall, they set the first layer of stones into a shallow bed of mortar. Then they line up the stones and tap them into place. They may weld or bolt pieces of metal together within the wall to hold the wall in place. They also cut stones into shapes and clean them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	779.684-058	STONE REPAIRER	3	2	3 SIX TO 12 MONTHS
		861.361-010	COMPOSITION-STONE APPLICATOR	3	2	2 TWO TO FOUR YEARS
		861.361-014	MONUMENT SETTER	4	2	3 TWO TO FOUR YEARS
		861.381-030	MARBLE SETTER	4	2	3 TWO TO FOUR YEARS
		861.381-038	STONEMASON	4	3	3 TWO TO FOUR YEARS
		861.381-042	STONEMASON APPRENTICE	4	3	3 TWO TO FOUR YEARS

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OCCUPATION: 6414

TILE SETTERS, HARD

HARD TILE SETTERS apply ceramic tile to walls, floors, and ceilings to create decorative coverings. Since tile varies in color, shape, and size, they may first arrange the tiles on a dry floor according to a plan. When the pattern looks right, they lay the tile, using cement or paste. They must first tack a mesh support to the surface to be tiled. Then they mix and spread the cement, let it dry, apply grout (a very fine cement) and tap each tile into place. They often have to cut tiles to fit into corners.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	861.381-062	TILE-CONDUIT LAYER	3 2 2 ONE TO TWO YEARS
46.0103	TILE SETTING	861.381-054	TILE SETTER	4 3 3 TWO TO FOUR YEARS
		861.381-058	TILE SETTER APPRENTICE	4 3 3 TWO TO FOUR YEARS
		861.684-018	TILE SETTER	2 1 2 UP TO 30 DAYS

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OCCUPATION: 6420

CARPENTERS AND RELATED WORKERS

Workers in these occupations use wood and dry wall to build structures. They follow blueprints to frame and build walls. They finish interior walls with drywall instead of wet plaster. They may work with fiberglass, plastic, or plaster. They may build scaffolds for dry wall installation or other work. They may also build other wooden products such as floors and cabinets. Measuring tools and other equipment are used.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6422

CARPENTERS

CARPENTERS build, install, and repair all kinds of wooden structures. They also work with materials such as plastic or fiberglass. The duties of carpenters vary greatly. They may build house frameworks, scaffolds, and wooden forms for concrete. They may erect docks, bridges, and supports for tunnels and sewers; build stairs; install floors, cabinets, doors, and wood paneling; and put up tile. They follow blueprints and use measuring tools, power tools, and a variety of handtools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0205	AGRICULTURAL STRUCTURES, EQUIPMENT, AND	860.381-042	CARPENTER, ROUGH	4 4 2	TWO TO FOUR YEARS
46.0201	CARPENTRY	860.281-010	CARPENTER, MAINTENANCE	4 3 3	TWO TO FOUR YEARS
		860.281-014	CARPENTER, SHIP	4 3 3	TWO TO FOUR YEARS
		860.381-010	ACOUSTICAL CARPENTER	4 3 2	TWO TO FOUR YEARS
		860.381-014	BOATBUILDER APPRENTICE, WOOD	4 4 4	TWO TO FOUR YEARS
		860.381-018	BOATBUILDER, WOOD	4 4 4	TWO TO FOUR YEARS
		860.381-022	CARPENTER	4 3 3	TWO TO FOUR YEARS
		860.381-026	CARPENTER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		860.381-030	CARPENTER, BRIDGE	4 2 2	TWO TO FOUR YEARS
		860.381-034	CARPENTER, MOLD	4 3 3	TWO TO FOUR YEARS
		860.381-038	CARPENTER, RAILCAR	4 3 3	TWO TO FOUR YEARS
		860.381-042	CARPENTER, ROUGH	4 4 2	TWO TO FOUR YEARS
		860.381-046	FORM BUILDER	4 3 2	TWO TO FOUR YEARS
		860.381-050	JOINER	4 3 3	TWO TO FOUR YEARS
		860.381-054	JOINER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		860.381-058	SHIPWRIGHT	4 4 3	FOUR TO TEN YEARS
		860.381-062	SHIPWRIGHT APPRENTICE	4 4 3	FOUR TO TEN YEARS
		860.381-066	TANK BUILDER AND ERECTOR	4 3 3	TWO TO FOUR YEARS
		860.381-070	TANK ERECTOR	4 3 3	TWO TO FOUR YEARS
		860.664-010	CARPENTER 1	3 2 2	THREE TO SIX MONTHS
		860.681-010	CARPENTER 2	3 2 2	SIX TO 12 MONTHS
		860.684-010	BUILDER, BEAM	3 2 2	30 TO 90 DAYS
		860.684-014	SIDER	3 1 2	30 TO 90 DAYS
		869.361-018	SIGN ERECTOR-AND-REPAIRER	3 2 2	ONE TO TWO YEARS
		869.381-010	HOUSE REPAIRER	4 3 3	TWO TO FOUR YEARS
		869.381-034	TIMBER FRAMER	3 2 2	ONE TO TWO YEARS
		869.684-018	ASSEMBLER, SUBASSEMBLY	3 2 2	30 TO 90 DAYS
		869.684-034	LAY-OUT WORKER	3 2 2	ONE TO TWO YEARS
		869.684-038	PANEL INSTALLER	2 1 1	UP TO 30 DAYS
		869.684-042	ROOF ASSEMBLER 1	3 1 2	30 TO 90 DAYS
		869.684-058	STOPPING BUILDER	3 1 2	SIX TO 12 MONTHS
		869.684-062	STULL INSTALLER	2 1 1	UP TO 30 DAYS
		869.684-066	TRIMMER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 6422 CARPENTERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		962.281-010	PROP MAKER	4 4 4	TWO TO FOUR YEARS
49.0306	MARINE MAINTENANCE	860.281-014	CARPENTER, SHIP	4 3 3	TWO TO FOUR YEARS
		860.381-014	BOATBUILDER APPRENTICE, WOOD	4 4 4	TWO TO FOUR YEARS
		860.381-018	BOATBUILDER, WOOD	4 4 4	TWO TO FOUR YEARS
		860.381-050	JOINER	4 3 3	TWO TO FOUR YEARS
		860.381-054	JOINER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		860.381-058	SHIPWRIGHT	4 4 3	FOUR TO TEN YEARS
		860.381-062	SHIPWRIGHT APPRENTICE	4 4 3	FOUR TO TEN YEARS

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OCCUPATION: 6424

DRYWALL INSTALLERS

These workers install and finish drywall panels. Drywall is often used instead of wet plaster to make walls and ceilings in new buildings. It consists of a thin wall of plaster between two pieces of heavy paper. Some DRYWALL INSTALLERS build metal or wooden frameworks and attach laths (wire mesh) to them so drywall can be applied. They also may fill the joints between drywall sheets and prepare the walls for painting. At times, these workers may work from ladders and scaffolds.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
46.0404	DRYWALL INSTALLATION	842.381-010	DRY-WALL APPLICATOR	4 4 3	TWO TO FOUR YEARS
		842.664-010	PAPER	3 2 2	SIX TO 12 MONTHS
		842.681-010	DRY-WALL APPLICATOR	3 2 2	ONE TO TWO YEARS
		869.684-050	SHRETTROCK APPLICATOR	2 1 1	30 TO 90 DAYS
46.0409	PLASTERING	842.361-010	LATHER	3 2 2	ONE TO TWO YEARS
		842.361-014	LATHER APPRENTICE	3 2 2	ONE TO TWO YEARS

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OCCUPATION: 6430

ELECTRICIANS AND POWER TRANSMISSION INSTALLERS

These workers may install and repair electrical wiring used to distribute electrical power in buildings and ships. Or they may construct, install, and service power lines used to transmit and distribute electrical energy for such things as TV antennas, street lights, trolley cars, lightning rods, and traffic signals. They may erect poles for power lines or work on underground cable systems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6432

ELECTRICIANS

ELECTRICIANS install and repair electrical wiring in buildings and ships. They follow blueprints and building plans and use hand-tools, power tools, and soldering irons. They connect wiring to light fixtures and power equipment. They install and test switches, relays, and circuit breakers. They may climb ladders to reach and repair equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
46.0302	ELECTRICIAN	822.361-018	PROTECTIVE-SIGNAL INSTALLER	4	3	2	TWO TO FOUR YEARS
		822.361-022	PROTECTIVE-SIGNAL REPAIRER	4	3	3	TWO TO FOUR YEARS
		824.261-010	ELECTRICIAN	4	4	3	TWO TO FOUR YEARS
		824.261-014	ELECTRICIAN APPRENTICE	4	4	3	TWO TO FOUR YEARS
		824.281-010	AIRPORT ELECTRICIAN	4	4	3	TWO TO FOUR YEARS
		824.281-018	NEON-SIGN SERVICER	4	2	2	TWO TO FOUR YEARS
		824.381-010	STREET-LIGHT SERVICER	4	3	3	TWO TO FOUR YEARS
		824.681-010	ELECTRICIAN	3	2	3	THREE TO SIX MONTHS
		825.381-030	ELECTRICIAN	4	3	3	FOUR TO TEN YEARS
47.0105	INDUSTRIAL ELECTRONICS	825.381-034	ELECTRICIAN APPRENTICE	4	3	3	FOUR TO TEN YEARS
		825.381-030	ELECTRICIAN	4	3	3	FOUR TO TEN YEARS
49.0306	MARINE MAINTENANCE	825.381-030	ELECTRICIAN	4	3	3	FOUR TO TEN YEARS
		825.381-034	ELECTRICIAN APPRENTICE	4	3	3	FOUR TO TEN YEARS
49.0308	SAILORS AND DECKHANDS	825.381-030	ELECTRICIAN	4	3	3	FOUR TO TEN YEARS

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OCCUPATION: 6433

ELECTRICAL POWER INSTALLERS AND REPAIRERS

These workers construct, repair, and service electric power lines. This includes power cables and lines for TV antennas, trolley cars, street lights, lightning rods, and traffic signals. They may erect and repair posts or poles that support the wires and cables. They may work on underground cable systems or on overhead cables and lines. They splice, solder, and insulate wires and test them for defects. They follow blueprints and manuals and use electricians' handtools and testing devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	P	M L TRAINING TIME
46.0303	LINEWORKER	821.261-014	LINE MAINTAINER	4 4 3	TWO TO FOUR YEARS
		821.261-026	TROUBLE SHOOTER 2	4 4 3	FOUR TO TEN YEARS
		821.361-010	CABLE INSTALLER-REPAIRER	4 4 3	FOUR TO TEN YEARS
		821.361-018	LINE ERECTOR	4 3 3	TWO TO FOUR YEARS
		821.361-022	LINE INSTALLER, STREET RAILWAY	4 4 3	TWO TO FOUR YEARS
		821.361-026	LINE REPAIRER	4 4 4	TWO TO FOUR YEARS
		821.361-030	LINE-ERECTOR APPRENTICE	4 3 3	TWO TO FOUR YEARS
		821.361-038	TOWER ERECTOR	4 3 2	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	821.687-010	STEEL-POST INSTALLER	2 2 2	30 TO 90 DAYS
		821.381-018	WIND-GENERATING-ELECTRIC-POWER INST	4 3 3	FOUR TO TEN YEARS

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OCCUPATION: 6440

PAINTERS, PAPERHANGERS, AND PLASTERERS

These workers apply finishes to buildings and equipment surfaces. They may pain walls, equipment, or boats after they clean the surface and prepare it for painting. Others may cover walls, ceilings, signs, and other surfaces with wallpaper, fabric, or other coverings. Some workers finish indoor walls and ceilings with plaster coatings to help make them fireproof and soundproof.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6442

PAINTERS (CONSTRUCTION AND MAINTENANCE)

These PAINTERS put paint, varnish, and other finishes on surfaces of buildings or equipment. First, they sand, scrape, or burn away old paint so that the new paint will stay on properly. When paint is hard to remove, they may loosen it with chemicals or special tools. They also remove grease, fill cracks, and brush off dust. Next, they cover surfaces with primer or sealer. Then they mix the paint and apply it with brushes, rollers, or spray guns. They may work from scaffolds or climb ladders to paint tall structures.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	845.681-010	RAILROAD-CAR LETTERER	3 2 2	TWO TO FOUR YEARS
46.0408	PAINTING AND DECORATING	840.381-010	PAINTER	3 2 2	TWO TO FOUR YEARS
		840.381-018	PAINTER, SHIPYARD	3 2 2	TWO TO FOUR YEARS
		840.681-010	PAINTER, STAGE SETTINGS	3 2 1	TWO TO FOUR YEARS
		840.684-010	GLASS TINTER	2 1 2	SIX TO 12 MONTHS
49.0306	MARINE MAINTENANCE	840.381-014	PAINTER APPRENTICE, SHIPYARD	3 2 2	TWO TO FOUR YEARS
		840.381-018	PAINTER, SHIPYARD	3 2 2	TWO TO FOUR YEARS

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OCCUPATION: 6443

PAPERHANGERS

PAPERHANGERS cover walls, ceilings, signs, and other surfaces with wallpaper, fabric, or other coverings. Before they cover surfaces, they wet or steam any old paper to remove it and apply a sealer so that the new covering will stay on. To cover the surface with the new material, they first measure the area to be covered and then cut strips of covering from a roll, making sure that the patterns at the top and base will match. They then apply paste to the strips, place them on the surface, and smooth them by hand or with a brush.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
46.0408	PAINTING AND DECORATING	841.381-010	PAPERHANGER	4 2 2 TWO TO FOUR YEARS
		841.684-010	BILLPOSTER	2 1 1 UP TO 30 DAYS

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OCCUPATION: 6444

PLASTERERS

PLASTERERS finish indoor walls and ceilings with plaster coatings to help make them fireproof and soundproof. They also apply cement, plastic, or stucco to outdoor surfaces and make decorative designs in plaster. They mix and spray or trowel plaster onto supportive wire mesh or directly on surfaces to cover them. They also create attractive plaster finishes and mold special designs to go on walls and ceilings. They use many special tools, including hawks, floats, rods, and sprayers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
46.0409	PLASTERING	842.361-018	PLASTERER	4 2 3	TWO TO FOUR YEARS
		842.361-022	PLASTERER APPRENTICE	4 2 3	TWO TO FOUR YEARS
		842.361-026	PLASTERER, MOLDING	4 2 3	TWO TO FOUR YEARS
		842.381-014	STUCCO MASON	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 6450

PLUMBERS, PIPEFITTERS, AND STEAM FITTERS

These workers install pipe systems that carry water, steam, air, or other liquids or gases. They also repair piping systems and put in plumbing fixtures, appliances, and heating and cooling equipment. Some install water, gas, and waste disposal systems in buildings; oil, air, and water lines in engines; or piping systems in planes or ships. Others install complex pipe systems used oil refineries and nuclear plants. They use wrenches, drills, saws, torches, power machines, and many other kinds of tools and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	862.684-034	WATER-SOFTENER SERVICER-AND-INSTALL	3	2	2 THREE TO SIX MONTHS
46.0302	ELECTRICIAN	869.381-018	PIPE INSTALLER	3	2	3 TWO TO FOUR YEARS
46.0502	PIPEFITTING AND STEAMFITTING	862.261-010	PIPE FITTER	4	4	3 TWO TO FOUR YEARS
		862.361-018	PIPE FITTER, DIESEL ENGINE 1	4	3	3 TWO TO FOUR YEARS
		862.361-022	STEAM SERVICE INSPECTOR	4	3	3 TWO TO FOUR YEARS
		862.381-014	INDUSTRIAL-GAS FITTER	3	2	2 TWO TO FOUR YEARS
		862.381-018	PIPE FITTER	4	3	3 FOUR TO TEN YEARS
		862.381-022	PIPE FITTER, DIESEL ENGINE 2	4	2	3 TWO TO FOUR YEARS
		862.381-026	PIPE-FITTER APPRENTICE	4	3	3 FOUR TO TEN YEARS
46.0503	PLUMBING	862.682-010	PIPE CUTTER	4	2	3 THREE TO SIX MONTHS
		862.281-010	COPPERSMITH	4	2	3 FOUR TO TEN YEARS
		862.281-014	COPPERSMITH APPRENTICE	4	2	3 FOUR TO TEN YEARS
		862.361-014	GAS-MAIN FITTER	4	2	3 TWO TO FOUR YEARS
		862.381-030	PLUMBER	4	3	3 TWO TO FOUR YEARS
		862.381-034	PLUMBER APPRENTICE	4	3	3 TWO TO FOUR YEARS
		862.681-010	PLUMBER	3	2	2 ONE TO TWO YEARS
		953.364-010	GAS-METER INSTALLER	3	2	3 ONE TO TWO YEARS
		954.564-010	WATER-METER INSTALLER	3	2	2 THREE TO SIX MONTHS
		47.0203	HEATING AND AIR CONDITIONING	862.281-018	OIL-BURNER-SERVICER-AND-INSTALLER	3
862.361-010	FURNACE INSTALLER			4	2	3 TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*862.381-010	AIRCRAFT MECHANIC, PLUMBING AND HYD	3	3	3 TWO TO FOUR YEARS

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OCCUPATION: 6460

OTHER CONSTRUCTION TRADES

These workers help build, maintain, or tear down such structures as buildings, roads, or pipelines. They may operate air hammers or drilling equipment. They may rivet or bolt steel frameworks. Others may roof buildings or install glass. Some operate equipment to spread concrete or asphalt or pack gravel. Workers may pour and finish concrete or lay and repair railroad tracks. Some install carpet and vinyl floor coverings. Some install soft tile.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6462

CARPET AND SOFT TILE INSTALLERS

These workers install and replace soft floor covering such as carpet and linoleum. They also may install pads that go under carpets, or cover walls and cabinets with metal or plastic tiles. They inspect surfaces to make sure they are firm, dry, and clean, and then prepare the surfaces to be covered by sanding them and filling in cracks. They also measure and mark off areas to be covered. They may cut, glue, and fit flooring; roll out, cut and tack down carpet; or use putty, glue, or cement to install soft tile.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME
46.0103	TILE SETTING	861.381-034	SOFT-TILE SETTER	4 2 3 TWO TO FOUR YEARS
46.0405	FLOOR COVERING INSTALLATION	622.381-026	FLOOR-COVERING LAYER	4 3 3 TWO TO FOUR YEARS
		864.381-010	CARPET LAYER	3 2 2 TWO TO FOUR YEARS
		864.481-010	FLOOR LAYER	3 2 2 ONE TO TWO YEARS
		864.481-014	FLOOR-LAYER APPRENTICE	3 2 2 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6463

CONCRETE AND TERRAZZO FINISHERS

CONCRETE FINISHERS mix, pour, and finish concrete for many types of construction projects. Work may range from finishing off small jobs, such as patios and floors, to building huge dams and concrete highways. They also color concrete surfaces and make concrete beams, columns, and panels. TERRAZZO WORKERS create attractive walkways, floors, patios, and panels by exposing marble chips or pebbles on the surfaces of finished concrete.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	861.381-046	TERRAZZO WORKER	4	2	3	TWO TO FOUR YEARS
		861.381-050	TERRAZZO-WORKER APPRENTICE	4	2	3	TWO TO FOUR YEARS
46.0402	CONCRETE PLACING AND FINISHING	844.364-010	CEMENT MASON	4	3	3	TWO TO FOUR YEARS
		844.364-014	CEMENT-MASON APPRENTICE	4	3	3	TWO TO FOUR YEARS
		844.461-010	CONCRETE-STONE FINISHER	4	3	3	TWO TO FOUR YEARS
		844.684-010	CONCRETE RUBBER	3	1	1	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6464

GLAZIERS

GLAZIERS install glass and mirrors in structures such as windows, doors, walls, tables, and display cases. Sometimes the glass must be cut before being installed. They measure, mark, and cut the glass to the required shape and size. They secure the glass in place with materials such as putty, rubber gaskets, metal clips, and wood molding. They also may attach metal hinges, handles, or other hardware to the glass. They use handtools and may use power cutters and grinders. They may work high above the ground.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
46.0404	DRYWALL INSTALLATION	865.361-010	MIRROR INSTALLER	3 2 2 ONE TO TWO YEARS
46.0406	GLAZING	865.381-010	GLAZIER	3 2 2 TWO TO FOUR YEARS
		865.381-014	GLAZIER APPRENTICE	3 2 2 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6465

INSULATION WORKERS

INSULATION WORKERS fill or line walls, floors, and ceilings with materials such as cork or fiberglass to help keep buildings warm in the winter and cool in the summer. They also install insulation in meat storage rooms and around steam pipes and boilers to prevent the transfer or loss of heat. They may paste, wire, tape, or spray the insulation onto surfaces or between surfaces. They use common handtools such as trowels, brushes, scissors, and staple guns, as well as power saws and compressors.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
46.0201	CARPENTRY	863.684-010	COMPOSITION-WEATHERBOARD APPLIER	2	1 1	THREE TO SIX MONTHS
46.0407	INSULATION INSTALLATION	863.364-010	INSULATION-WORKER APPRENTICE	3	2 3	ONE TO TWO YEARS
		863.364-014	INSULATION WORKER	3	2 3	ONE TO TWO YEARS
		863.381-010	CORK INSULATOR, REFRIGERATION PLANT	3	2 2	TWO TO FOUR YEARS
		863.381-014	PIPE COVERER AND INSULATOR	4	2 3	FOUR TO TEN YEARS
		863.664-010	BLOWER INSULATOR	2	1 1	SIX TO 12 MONTHS
		863.684-010	COMPOSITION-WEATHERBOARD APPLIER	2	1 1	THREE TO SIX MONTHS
		863.685-010	INSULATION-POWER-UNIT TENDER	2	1 1	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6466

PAVING, SURFACING AND TAMPING EQUIPMENT OPERATORS

These people operate or tend equipment that spreads or smooths concrete, asphalt, or other materials on roads, parking lots, or airport runways. They also may use equipment that packs gravel, dirt, or other material. They move levers, push pedals, and turn handwheels to start, stop, and control spreading and packing equipment. They also may clean and replace worn machinery parts. Some of the machines these workers use must be driven.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
46.0402	CONCRETE PLACING AND FINISHING	859.683-022	REINFORCING-STEEL-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	853.663-010	ASPHALT-PAVING-MACHINE OPERATOR	3 1 1	SIX TO 12 MONTHS
		853.663-014	CONCRETE-PAVING-MACHINE OPERATOR	3 1 1	30 TO 90 DAYS
		853.663-018	ROAD-OILING-TRUCK DRIVER	3 1 1	SIX TO 12 MONTHS
		853.663-022	STONE-SPREADER OPERATOR	3 1 1	SIX TO 12 MONTHS
		853.665-010	ASPHALT-DISTRIBUTOR TENDER	2 2 1	UP TO 30 DAYS
		853.683-010	CURB-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
		853.683-018	JOINT-CLEANING-AND-GROOVING-MACHINE	3 1 1	THREE TO SIX MONTHS
		853.685-010	ASPHALT-HEATER TENDER	2 1 1	30 TO 90 DAYS
		859.683-018	RAILWAY-EQUIPMENT OPERATOR	3 2 2	THREE TO SIX MONTHS
		859.683-026	ROAD-MIXER OPERATOR	3 1 1	SIX TO 12 MONTHS
		859.683-030	ROAD-ROLLER OPERATOR	2 1 1	30 TO 90 DAYS
		869.683-010	FORM-TAMPER OPERATOR	2 1 2	30 TO 90 DAYS
		869.683-018	TAMPING-MACHINE OPERATOR	3 1 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6467

RAIL AND TRACK LAYING EQUIPMENT OPERATORS

These people operate equipment used to lay and repair railroad tracks and rails. Some of these workers drive a vehicle that moves and lays track or rails. Other operate equipment used to maintain and repair tracks. This equipment includes portable grinders, spike pullers, and spike drivers. Still others operate machines mounted on flat-bed railroad tracks. These machines are used to spread and shape crushed rock to form the foundation for railroad tracks and to level and straighten the tracks over the foundation.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
48.0503 MACHINE TOOL OPERATION/MACHINE SHOP	910.684-010 GRINDING-MACHINE OPERATOR, PORTABLE	2 2 2 30 TO 90 DAYS
49.0202 CONSTRUCTION EQUIPMENT OPERATION	910.663-010 TRACK-MOVING-MACHINE OPERATOR	3 2 2 THREE TO SIX MONTHS
	910.682-010 TRACK REPAIRER	3 2 2 THREE TO SIX MONTHS
	910.683-018 TRACK-SURFACING-MACHINE OPERATOR	3 2 2 30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6468

ROOFERS

ROOFERS cover the tops of buildings with materials such as asbestos, slate, wood, asphalt, aluminum, or tile to insulate them and make them waterproof. They install and repair various kinds of roofing, including tar and gravel, slate or wooden shingles, and tiles. They also may waterproof walls and floors. They measure, cut, and lay shingles and tiles, and nail or cement them to roofs. Sometimes, they spread hot tar over a roof, cover the tar with layers of roofing felt, and then add gravel to the top.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
46.0410	ROOFING	866.381-010	ROOFER	3 2 2 TWO TO FOUR YEARS
		866.381-014	ROOFER APPRENTICE	3 2 2 TWO TO FOUR YEARS
		866.684-010	ROOFER APPLICATOR	3 1 2 ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6472

SHEETMETAL DUCT INSTALLERS

These workers install heating or air ducts in homes, commercial buildings, and factories. The ducts are part of heating and ventilating systems. Installers follow blueprints and specifications as they fasten duct parts in place using bolts, rivets, or welding. They check fitted parts for conformity to specifications and for leaks or flaws.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6473

STRUCTURAL METAL WORKERS

STRUCTURAL WORKERS join steel frameworks and other metal parts of structures with bolts, rivets, screws, and other fasteners. They also place steel or iron in forms used to make reinforced concrete. They help erect and put together structures such as buildings, bridges, dams, storage tanks, and playground equipment. They use blueprints, power tools, hoisting equipment, and a variety of handtools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	801.361-014	STRUCTURAL-STEEL WORKER	3 2 3	TWO TO FOUR YEARS
		801.361-018	STRUCTURAL-STEEL-WORKER APPRENTICE	3 2 3	TWO TO FOUR YEARS
		801.361-022	TANK SETTER	4 2 2	TWO TO FOUR YEARS
		801.381-010	ASSEMBLER, METAL BUILDING	3 2 2	ONE TO TWO YEARS
		801.684-018	PLAYGROUND-EQUIPMENT ERECTOR	3 1 1	30 TO 90 DAYS
46.0402	CONCRETE PLACING AND FINISHING	801.684-026	REINFORCING-METAL WORKER	3 1 1	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6474

DRILLERS, EARTH

EARTH DRILLERS set up and operate many kinds of earth drilling equipment. Some use drilling equipment to tap water deposits or to make space for underground pipes. Others drill holes for poles or posts or for concrete pier foundations. A few drill into the earth to remove soil samples for testing or to prepare holes to be filled with explosives used in mining and construction work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	859.362-010	WELL-DRILL OPERATOR	4 3 3	TWO TO FOUR YEARS
		930.682-010	CORE-DRILL OPERATOR	3 2 2	ONE TO TWO YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.662-010	HORIZONTAL-EARTH-BORING-MACHINE OPE	3 2 2	SIX TO 12 MONTHS
		850.683-034	ROCK-DRILL OPERATOR 1	3 2 2	SIX TO 12 MONTHS
		859.682-014	FOUNDATION-DRILL OPERATOR	3 2 2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	850.662-010	HORIZONTAL-EARTH-BORING-MACHINE OPE	3 2 2	SIX TO 12 MONTHS
		859.682-010	EARTH-BORING-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS
		859.682-014	FOUNDATION-DRILL OPERATOR	3 2 2	SIX TO 12 MONTHS
		930.682-010	CORE-DRILL OPERATOR	3 2 2	ONE TO TWO YEARS

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OCCUPATION: 6475

AIRHAMMER OPERATORS

AIRHAMMER OPERATORS use drills powered by compressed air to make holes in or break up ore, rock, and concrete. They may drill holes to help miners blast out rock and ore, for example, or to break up road pavement or concrete structures. They prepare for drilling by connecting air and water lines to the jackhammer. They pull a trigger to start the drill and then lean on the hammer to guide the drill bit into the surface. At times, they may replace or sharpen drill bits. These workers must be in good physical condition.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
49.0202	CONSTRUCTION EQUIPMENT OPERATION	930.684-018	JACKHAMMER OPERATOR	2 2 1 UP TO 30 DAYS
49.0204	MINING EQUIPMENT OPERATION	930.684-022	QUARRY PLUG-AND-FEATHER DRILLER	2 1 1 THREE TO SIX MONTHS

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OCCUPATION: 6476

PILE DRIVING OPERATORS

These workers operate a large machine called a pile driver that drives wood or steel pilings or posts into the earth. The pilings driven into the earth serve as foundations for structures such as buildings, bridges, and piers. PILE DRIVING OPERATORS use hand foot levers and turn valves to position pilings and control the action of the pile driver.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
49.0202	CONSTRUCTION EQUIPMENT OPERATION	859.682-018	PILE-DRIVER OPERATOR	3 2 2 SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6479

CONSTRUCTION TRADES, N.E.C.

People in these jobs help build, maintain, or tear down structures, such as buildings, roads and pipelines. Work duties and settings vary. For example, they may install windows and door frames in homes, place lane markers along highways, or apply siding to building walls. They may prepare buildings to be moved or install sprinkler systems. These workers often work as part of a team or crew. They use handtools and may use power tools and equipment as well.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	809.381-022	ORNAMENTAL-IRON WORKER	4 3 3	TWO TO FOUR YEARS
		809.381-026	ORNAMENTAL-IRON-WORKER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		809.664-010	ALUMINUM-POOL INSTALLER	3 2 1	THREE TO SIX MONTHS
		850.684-010	EXCAVATOR	3 1 1	30 TO 90 DAYS
		859.684-010	LANE-MARKER INSTALLER	2 2 1	30 TO 90 DAYS
		861.664-014	TERRAZZO FINISHER	2 1 2	SIX TO 12 MONTHS
		869.261-010	HOUSE MOVER	4 3 3	ONE TO TWO YEARS
		869.463-010	SWIMMING POOL INSTALIER-AND-SERVICE	4 4 4	FOUR TO TEN YEARS
		869.484-018	VENETIAN-BLIND INSTALLER	3 2 2	THREE TO SIX MONTHS
		869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
		869.664-018	SEWER-LINE REPAIRFR	3 2 2	ONE TO TWO YEARS
		891.684-022	BUILDING CLEANER	3 2 2	THREE TO SIX MONTHS
		899.684-014	HIGHWAY-MAINTENANCE WORKER	3 1 2	30 TO 90 DAYS
		899.684-018	LAMINATOR	2 1 2	30 TO 90 DAYS
		899.687-010	DECORATOR, STREET AND BUILDING	2 1 1	THREE TO SIX MONTHS
01.0205	AGRICULTURAL STRUCTURES, EQUIPMENT, AND	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
		869.684-022	FENCE ERECTOR	3 2 2	SIX TO 12 MONTHS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	851.383-010	IRRIGATION SYSTEM INSTALLER	3 2 2	SIX TO 12 MONTHS
		869.684-030	LAWN-SPRINKLER INSTALLER	3 2 2	SIX TO 12 MONTHS
01.0605	LANDSCAPING	869.684-030	LAWN-SPRINKLER INSTALLER	3 2 2	SIX TO 12 MONTHS
08.0503	FLORISTRY	899.364-014	ARTIFICIAL-FOLIAGE ARRANGER	3 2 2	SIX TO 12 MONTHS
09.0201	ADVERTISING	869.684-054	SIGN ERECTOR 2	3 2 2	30 TO 90 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	869.484-014	DRAPERY HANGER	3 2 2	SIX TO 12 MONTHS
20.0504	FLORAL DESIGN	899.364-014	ARTIFICIAL-FOLIAGE ARRANGER	3 2 2	SIX TO 12 MONTHS
20.0604	CUSTODIAL SERVICES	891.685-010	STEAM-CLEANING-MACHINE OPERATOR	2 1 1	THRE TO SIX MONTHS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS

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OCCUPATION: 6479 CONSTRUCTION TRADES, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
46.0103	TILE SETTING	861.664-010	MARBLE FINISHER	2 1 1	SIX TO 12 MONTHS
		861.664-018	TILE FINISHER	2 1 2	SIX TO 12 MONTHS
		869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0201	CARPENTRY	863.684-014	SIDER	3 2 2	THREE TO SIX MONTHS
		869.281-014	HOUSE BUILDER	3 3 3	TWO TO FOUR YEARS
		869.484-010	AWNING HANGER	3 2 2	THREE TO SIX MONTHS
		869.487-010	MEASURER	3 2 2	THREE TO SIX MONTHS
		869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
		869.684-054	SIGN ERECTOR 2	3 2 2	30 TO 90 DAYS
46.0401	BUILDING AND PROPERTY MAINTENANCE	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0402	CONCRETE PLACING AND FINISHING	849.665-010	PUMP TENDER, CEMENT BASED MATERIALS	2 1 1	THREE TO SIX MONTHS
		869.261-018	POURED-CONCRETE-WALL TECHNICIAN	4 3 3	TWO TO FOUR YEARS
		869.361-010	CONDUIT MECHANIC	3 3 3	TWO TO FOUR YEARS
		869.664-010	CONCRETE-BUILDING ASSEMBLER	2 2 2	THREE TO SIX MONTHS
		869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
		869.667-010	COLUMN PRECASTER	2 1 1	UP TO 30 DAYS
869.681-010	CONCRETE-FENCE BUILDER	3 2 2	ONE TO TWO YEARS		
46.0404	DRYWALL INSTALLATION	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0405	FLOOR COVERING INSTALLATION	864.684-010	FLOOR AND WALL APPLIER, LIQUID	3 1 2	THREE TO SIX MONTHS
		869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0407	INSULATION INSTALLATION	863.684-014	SIDER	3 2 2	THREE TO SIX MONTHS
869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS		
46.0408	PAINTING AND DECORATING	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0409	PLASTERING	842.665-010	PLASTER-MACHINE TENDER	2 1 1	THREE TO SIX MONTHS
		869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0410	ROOFING	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
46.0502	PIPEFITTING AND STEAMFITTING	869.664-014	CONSTRUCTION WORKER 1	3 3 3	THREE TO SIX MONTHS
		899.664-014	SEWER-PIPE CLEANER	3 1 2	30 TO 90 DAYS
46.0503	PLUMBING	869.684-030	LAWN-SPRINKLER INSTALLER	3 2 2	SIX TO 12 MONTHS
		899.664-014	SEWER-PIPE CLEANER	3 1 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6479 CONSTRUCTION TRADES, NOT ELSEWHERE CLASSIFIED (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
47.0103	COMMUNICATION ELECTRONICS	823.684-010	ANTENNA INSTALLER	3	2	2	THREE TO SIX MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	869.281-014	HOUSE BUILDER	3	3	3	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	869.665-010	AUXILIARY-EQUIPMENT TENDER	3	2	2	ONE TO TWO YEARS
47.0504	PUMPING PLANTS	869.665-010	AUXILIARY-EQUIPMENT TENDER	3	2	2	ONE TO TWO YEARS
		899.684-026	PIPELINER	3	1	2	SIX TO 12 MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	573.684-010	KILN-DOOR BUILDER	2	1	1	30 TO 90 DAYS
		579.664-010	CLAY-STRUCTURE BUILDER AND SERVICER	3	2	2	THREE TO SIX MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	862.662-010	PIPE-CLEANING-AND-PRIMING-MACHINE O	3	2	2	ONE TO TWO YEARS
		862.682-014	PIPE-WRAPPING-MACHINE OPERATOR	3	1	2	SIX TO 12 MONTHS
		869.361-014	HYDRAULIC-JACK ADJUSTER	3	2	2	ONE TO TWO YEARS
		869.662-010	LIFT-SLAB OPERATOR	4	2	3	TWO TO FOUR YEARS
		869.682-010	CIRCULAR SAW OPERATOR	3	1	2	SIX TO 12 MONTHS
		869.682-014	CORE-DRILL OPERATOR	3	1	2	SIX TO 12 MONTHS

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OCCUPATION: 6500

EXTRACTIVE OCCUPATIONS

These workers remove resources from the ground. They may drill for oil or test for oil deposits. They may place explosives in mines, quarries, or structures to remove or loosen materials. Some operate mining machinery that removes resources, cuts through rock, or moves materials. Others do the physical labor of mining, working as a team to remove minerals, build or repair structures, or assemble, test, or repair equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6520

DRILLERS, OIL WELL

OIL WELL DRILLERS operate a variety of drills to take oil from the earth. They also may use specially designed equipment to look for or to test for oil deposits. Some direct the use of special tools and techniques to recover lost equipment or other objects that sometimes block oil wells. Others operate truck-mounted hoists equipped with a derrick to clean out and restore old and damaged oil or gas wells.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	930.361-010	SERVICE-UNIT OPERATOR, OIL WELL	3	2 2	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	930.261-010	FISHING-TOOL TECHNICIAN, OIL WELL	4	3 3	TWO TO FOUR YEARS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	930.363-010	CLEAN-OUT DRILLER	3	2 2	SIX TO 12 MONTHS
		930.382-018	PROSPECTING DRILLER	3	3 2	ONE TO TWO YEARS
		930.382-022	ROTARY DERRICK OPERATOR	3	2 2	SIX TO 12 MONTHS
		930.382-026	ROTARY DRILLER	3	2 2	ONE TO TWO YEARS

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OCCUPATION: 6530

EXPLOSIVE WORKERS

People in these jobs place explosives in open pits, underground mines, quarries, buildings, or other structures. They also set off explosives to loosen or remove earth, rock, or other materials or structures. They study land formations or structures to determine the type and amount of explosive charge to use. They may instruct other workers to drill blast holes or drill them themselves. They connect wires to firing devices and set off charges. These workers must be very careful to see that safety rules are followed.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	850.381-010	MINER	4	3	2	TWO TO FOUR YEARS
		859.261-010	BLASTER	4	4	4	TWO TO FOUR YEARS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	931.361-010	SAMPLE-TAKER OPERATOR	3	2	1	SIX TO 12 MONTHS
		931.361-014	SHOOTER	3	2	2	ONE TO TWO YEARS
		931.361-018	SHOOTER, SEISMOGRAPH	3	2	2	ONE TO TWO YEARS
		931.382-010	PERFORATOR OPERATOR, OIL WELL	3	2	2	ONE TO TWO YEARS
49.0204	MINING EQUIPMENT OPERATION	931.261-010	BLASTER	4	3	2	TWO TO FOUR YEARS
		931.664-010	TIER-AND-DEFONATOR	2	2	2	UP TO 30 DAYS

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OCCUPATION: 6540

MINING MACHINE OPERATORS

These workers operate equipment used in mining and building projects. For example, some operate equipment to move steel framework within a tunnel during construction. Some use a huge electric chain saw to cut a strip beneath coal deposits to control the direction of the coal as it falls after blasting. Some operate machines to drill holes used for explosives. Some sit or lie in the cab of a machine and operate levers to cut or rip out coal and load it in shuttle cars. Some use torches to cut holes in rock at a quarry.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.682-010	SHIELD RUNNER	3 1 1	SIX TO 12 MONTHS
		930.382-010	DRILLER, MACHINE	3 2 2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	850.682-010	SHIELD RUNNER	3 1 1	SIX TO 12 MONTHS
		930.382-010	DRILLER, MACHINE	3 2 2	SIX TO 12 MONTHS
		930.383-010	CHANNELING-MACHINE RUNNER	3 2 1	THREE TO SIX MONTHS
		930.482-010	DRILLING-MACHINE OPERATOR	3 2 1	ONE TO TWO YEARS
		930.663-010	SHALE PLANE OPERATOR	3 2 3	THREE TO SIX MONTHS
		930.665-010	LONG-WALL-MINING-MACHINE TENDER	3 2 2	SIX TO 12 MONTHS
		930.683-010	CONTINUOUS-MINING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		930.683-014	CUTTER OPERATOR	3 2 2	ONE TO TWO YEARS
		930.684-010	FLAME CHANNELER	2 1 1	THREE TO SIX MONTHS
		939.382-010	DRY-PLACER-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS

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OCCUPATION: 6560

MINING OCCUPATIONS, N.F.C.

People in these jobs do much of the day-to-day physical labor at mines, quarries, and oil drilling sites. They often work as part of a team or crew of workers to build and repair structures. They also may assemble, test, repair, or clean equipment. Some help with safety or blasting operations. Many of these workers use handtools. Some operate power tools, pumps, jacks, or powered machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	729.684-042	SAFETY-LAMP KEEPER	3	2	1	THREE TO SIX MONTHS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	869.684-046	ROUSTABOUT	3	1	2	SIX TO 12 MONTHS
		930.664-010	CASER	1	1	1	30 TO 90 DAYS
		930.684-014	FLOOR WORKER, WELL SERVICE	2	1	1	30 TO 90 DAYS
		931.384-010	GUN-PERFORATOR LOADER	3	2	2	SIX TO 12 MONTHS
		931.684-010	DUMPER-BAILER OPERATOR	3	2	1	SIX TO 12 MONTHS
		939.682-014	PNEUMATIC-JACK OPERATOR	3	2	2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	899.684-034	SHAFT MECHANIC	3	1	2	SIX TO 12 MONTHS
		930.666-014	TAILER	2	1	1	30 TO 90 DAYS
		930.683-026	ROOF BOLTER	3	1	1	THREE TO SIX MONTHS
		933.664-010	CRUSHER SETTER	2	1	1	30 TO 90 DAYS
		939.281-010	MINER 1	4	3	2	ONE TO TWO YEARS
		939.667-014	QUARRY WORKER	2	1	1	UP TO 30 DAYS
		939.684-010	JACK SFITTER	3	2	1	SIX TO 12 MONTHS
		939.684-014	MINER, PLACER	3	1	1	THREE TO SIX MONTHS
		939.687-026	ROCK-DUST SPRAYER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 6699

PRECISION PRODUCTION OCCUPATIONS

These workers make products or perform services that require skill and attention to detail. They may work by hand or by machine, setting type, tailoring clothes, or making parts for machines. They may cut meat, make furniture, or assemble electronics components. Some run power-generating or processing plant equipment. They use precision instruments, instructions, gauges, and measuring devices to complete and check their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6700

SUPERVISORS: PRECISION PRODUCTION OCCUPATIONS

These people supervise workers who do precision production, processing, finishing, or repair work. They study schedules and determine the workers and equipment needed for assignments. They interpret company policies, and job orders to workers and assign duties. They determine work procedures and schedules, enforce rules, and solve difficult work problems. They may hire, train, and discharge workers. They keep work records, and may order needed materials and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M I	
00.0000 NO CIP ASSIGNED	184.167-046 INCINERATOR-PLANT-GENERAL SUPERVISOR	4 3 4	ONE TO TWO YEARS
	509.130-014 SUPERVISOR, POWER-REACTOR	4 3 3	TWO TO FOUR YEARS
	558.132-018 SUPERVISOR, SULFURIC-ACID PLANT	4 3 4	FOUR TO TEN YEARS
	559.132-018 CATALYST OPERATOR, CHIEF	4 3 3	TWO TO FOUR YEARS
	559.132-026 HEAD OPERATOR, SULFIDE	4 3 3	FOUR TO TEN YEARS
	559.132-062 SUPERVISOR, ALUM PLANT	4 3 3	TWO TO FOUR YEARS
	704.131-014 SUPERVISOR, ENGRAVING	4 3 3	FOUR TO TEN YEARS
	952.132-010 OPERATIONS SUPERVISOR, NUCLEAR POWE	5 5 5	FOUR TO TEN YEARS
	979.131-014 SUPERVISOR, ROLLER SHOP	4 3 3	TWO TO FOUR YEARS
06.2001 TRADE AND INDUSTRIAL SUPERVISION AND MAN	365.131-010 SHOE-REPAIR SUPERVISOR	3 1 1	TWO TO FOUR YEARS
	514.131-010 INSPECTOR, CHIEF	4 3 3	TWO TO FOUR YEARS
	542.130-010 SUPERVISOR, NATURAL-GAS PLANT	4 3 4	FOUR TO TEN YEARS
	549.130-010 SUPERVISOR, TOWER	4 3 4	TWO TO FOUR YEARS
	660.130-010 CABINETMAKER, SUPERVISOR	4 4 4	FOUR TO TEN YEARS
	693.131-010 PATTERN-SHOP SUPERVISOR	4 3 3	FOUR TO TEN YEARS
	700.131-018 SUPERVISOR, JEWELRY DEPARTMENT	4 4 3	TWO TO FOUR YEARS
	704.131-010 ENGRAVING SUPERVISOR	4 3 3	FOUR TO TEN YEARS
	706.131-010 LABORATORY SUPERVISOR	4 3 3	FOUR TO TEN YEARS
	709.134-010 SUPERVISOR, METAL FURNITURE ASSEMBL	4 3 3	TWO TO FOUR YEARS
	710.131-014 SUPERVISOR, INSTRUMENT MAINTENANCE	4 4 4	FOUR TO TEN YEARS
	710.137-010 SUPERVISOR, ASSEMBLY	4 3 3	TWO TO FOUR YEARS
	729.130-010 SUPERVISOR, ELECTRICAL ASSEMBLY	4 3 3	ONE TO TWO YEARS
	770.131-014 SUPERVISOR, DIAMOND FINISHING	4 3 3	FOUR TO TEN YEARS
	862.137-018 WATER-AND-SEWER-SYSTEMS SUPERVISOR	4 3 3	TWO TO FOUR YEARS
	950.131-010 REFRIGERATING ENGINEER, HEAD	4 3 4	TWO TO FOUR YEARS
	950.131-014 STATIONARY-ENGINEER SUPERVISOR	4 3 3	TWO TO FOUR YEARS
	952.131-010 SUBSTATION OPERATOR, CHIEF	4 3 3	FOUR TO TEN YEARS
	952.137-014 HYDROELECTRIC-STATION OPERATOR, CHI	4 3 3	TWO TO FOUR YEARS
	952.137-022 TURBINE OPERATOR, HEAD	4 3 3	TWO TO FOUR YEARS
	952.137-026 SUPERVISOR, OPERATIONS	4 3 4	TWO TO FOUR YEARS
	953.132-010 SUPERVISOR, LIQUEFACTION-AND-REGASI	4 3 4	FOUR TO TEN YEARS
	954.130-010 SUPERVISOR, PUMPING STATION	4 4 3	TWO TO FOUR YEARS
	955.130-010 SUPERVISORY WASTFWATER-TREATMENT-PL	4 4 4	TWO TO FOUR YEARS

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OCCUPATION: 6700 SUPERVISORS; PRECISION PRODUCTION OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
		970.131-010	SUPERVISOR, TYPE COPYING	4 3 4 OVER 10 YEARS
		971.131-010	SUPERVISOR, PHOTOENGRAVING	4 3 3 FOUR TO TEN YEARS
		972.130-010	SUPERVISOR, OFFSET-PLATE PREPARATIO	4 4 4 FOUR TO TEN YEARS
		974.131-010	SUPERVISOR, ELECTROTYPING AND STERE	4 3 3 FOUR TO TEN YEARS
		976.131-018	SUPERVISOR, MICROFILM DUPLICATING U	4 3 4 TWO TO FOUR YEARS
		976.131-022	SUPERVISOR, QUALITY CONTROL	4 3 3 TWO TO FOUR YEARS
		979.131-018	SUPERVISOR, SILK-SCREEN CUTTING AND	4 3 3 FOUR TO TEN YEARS
		979.132-010	SHIFT SUPERVISOR, FILM PROCESSING	4 3 3 FOUR TO TEN YEARS
		979.137-026	SUPERVISOR, TYPE-DISK QUALITY CONTR	4 3 4 TWO TO FOUR YEARS
10.0103	PHOTOGRAPHIC TECHNOLOGY	976.131-022	SUPERVISOR, QUALITY CONTROL	4 3 3 TWO TO FOUR YEARS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	361.137-010	SUPERVISOR, LAUNDRY	3 3 3 ONE TO TWO YEARS
		369.137-010	SUPERVISOR, DRY CLEANING	4 3 3 TWO TO FOUR YEARS
		369.137-014	SUPERVISOR, RUG CLEANING	4 2 3 TWO TO FOUR YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	710.131-014	SUPERVISOR, INSTRUMENT MAINTENANCE	4 4 4 FOUR TO TEN YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	710.131-014	SUPERVISOR, INSTRUMENT MAINTENANCE	4 4 4 FOUR TO TEN YEARS
		710.137-010	SUPERVISOR, ASSEMBLY	4 3 3 TWO TO FOUR YEARS
15.0501	AIR CONDITIONING, HEATING, AND REFRIGERA	950.131-010	REFRIGERATING ENGINEER, HEAD	4 3 4 TWO TO FOUR YEARS
		959.131-010	HEATING-PLANT SUPERINTENDENT	4 3 3 FOUR TO TEN YEARS
15.0506	WATER AND WASTEWATER TECHNOLOGY	955.130-010	SUPERVISORY WASTEWATER-TREATMENT-PL	4 4 4 TWO TO FOUR YEARS
17.0103	DENTAL LABORATORY TECHNOLOGY	712.131-010	SUPERVISOR, DENTAL LABORATORY	4 3 4 TWO TO FOUR YEARS
20.0302	CLOTHING MAINTENANCE AIDE	361.137-010	SUPERVISOR, LAUNDRY	3 3 3 ONE TO TWO YEARS
		369.137-010	SUPERVISOR, DRY CLEANING	4 3 3 TWO TO FOUR YEARS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	589.130-010	EMBROIDERY SUPERVISOR	4 3 4 TWO TO FOUR YEARS
		783.131-010	SUPERVISOR, FURRIER SHOP	4 3 4 TWO TO FOUR YEARS
20.0605	EXECUTIVE HOUSEKEEPING	361.137-010	SUPERVISOR, LAUNDRY	3 3 3 ONE TO TWO YEARS
41.0201	NUCLEAR MATERIALS HANDLING TECHNOLOGY	709.137-010	INSPECTION SUPERVISOR	4 3 3 FOUR TO TEN YEARS
41.0301	CHEMICAL TECHNOLOGY	559.132-018	CATALYST OPERATOR, CHIEF	4 3 3 TWO TO FOUR YEARS
44.0601	PUBLIC SANITATION	*184.167-046	INCINERATOR-PLANT-GENERAL SUPERVISO	4 3 4 ONE TO TWO YEARS
47.0105	INDUSTRIAL ELECTRONICS	729.131-010	INSPECTOR, CHIEF	4 3 3 ONE TO TWO YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
47.0203 HEATING AND AIR CONDITIONING	959.131-010 HEATING-PLANT SUPERINTENDENT	4 3 3 FOUR TO TEN YEARS
47.0408 WATCH REPAIR	770.131-010 JEWEL SUPERVISOR	4 3 4 TWO TO FOUR YEARS
47.0502 CONVENTIONAL ELECTRICAL POWER GENERATION	952.137-026 SUPERVISOR, OPERATIONS	4 3 4 TWO TO FOUR YEARS
48.0209 SILK SCREEN MAKING AND PRINTING	971.131-014 SUPERVISOR, SCREEN MAKING	4 3 3 FOUR TO TEN YEARS
48.0210 PHOTOENGRAVING	*971.131-010 SUPERVISOR, PHOTOENGRAVING	4 3 3 FOUR TO TEN YEARS
49.0306 MARINE MAINTENANCE	623.131-010 MACHINIST SUPERVISOR, OUTSIDE	4 3 3 FOUR TO TEN YEARS
	806.131-034 SUPERVISOR, SHIPFITTERS	4 3 2 FOUR TO TEN YEARS

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OCCUPATION: 6800

PRECISION PRODUCTION OCCUPATIONS

These workers make products or perform services that require skill and attention to detail. They may work by hand or by machine, setting type, tailoring clothes, or making parts for machines. They may cut meat, make furniture, or assemble electronics components. Some run power-generating or processing plant equipment. They use precision instruments, instructions, gauges, and measuring devices to complete and check their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6810

PRECISION METAL WORKERS

These workers make or assemble machine parts, boilers, sheet metal products, and jewelry. They may make molds for metal parts or engrave the surface of metal objects. They may cut, shape, cast, file, or grind metal to achieve the exact specifications for the product they are making. They may make tools or machine automobile parts. Some workers may assemble products and check precision while others use design and math skills to plan products and work methods.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6811

TOOL AND DIE MAKERS

TOOL AND DIE MAKERS make machine-shop tools, jigs, fixtures, instruments, and metal-forming dies. TOOLMAKERS produce jigs and fixtures (devices that hold metal while it is shaved, stamped, or drilled). They also make gauges and other measuring devices used in making precision metal parts. DIEMAKERS construct metal forms (dies) to shape metal in stamping and forging operations. They also make metal molds for diecasting and for molding plastics. These workers also repair tools and dies.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	601.381-030	PLASTIC-FIXTURE BUILDER	4 3 3	TWO TO FOUR YEARS
48.0504	METAL FABRICATION	601.381-034	SAW MAKER	4 4 3	ONE TO TWO YEARS
48.0507	TOOL AND DIE MAKING	601.280-010	DIE MAKER, STAMPING	4 4 4	FOUR TO TEN YEARS
		601.280-014	DIE MAKER, TRIM	4 4 3	TWO TO FOUR YEARS
		601.280-018	DIE MAKER, WIRE DRAWING	4 4 3	TWO TO FOUR YEARS
		601.280-022	DIE SINKER	4 3 3	TWO TO FOUR YEARS
		601.280-030	MOLD MAKER, DIE-CASTING AND PLASTIC	4 3 3	TWO TO FOUR YEARS
		601.280-034	TAP-AND-DIE-MAKER TECHNICIAN	4 3 3	FOUR TO TEN YEARS
		601.280-042	TOOL MAKER	4 3 3	TWO TO FOUR YEARS
		601.280-046	TOOL-AND-DIE MAKER	4 4 4	TWO TO FOUR YEARS
		601.280-050	TOOL-AND-DIE-MAKER APPRENTICE	4 4 4	TWO TO FOUR YEARS
		601.280-058	TOOL-MAKER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		601.281-010	DIE MAKER, BENCH, STAMPING	4 4 4	TWO TO FOUR YEARS
		601.281-014	DIE-TRY-OUT WORKER, STAMPING	4 3 3	TWO TO FOUR YEARS
		601.281-026	TOOL MAKER, BENCH	4 3 3	TWO TO FOUR YEARS
		601.381-010	DIE FINISHER	4 3 3	TWO TO FOUR YEARS
		601.381-014	DIE MAKER	4 3 3	TWO TO FOUR YEARS
		601.381-018	DIE POLISHER	3 3 2	ONE TO TWO YEARS
		601.381-022	DIE-MAKER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		601.381-026	PLASTIC TOOL MAKER	4 3 3	TWO TO FOUR YEARS
		601.381-042	DIE MAKER, ELECTRONIC	4 3 2	TWO TO FOUR YEARS
		739.381-018	DIE MAKER	4 3 3	FOUR TO TEN YEARS
		739.381-022	DIE-MAKER APPRENTICE	4 3 3	FOUR TO TEN YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6812

PRECISION ASSEMBLERS (METAL)

PRECISION ASSEMBLERS(metal) follow blueprints and detailed drawings to put together machinery and equipment. They assemble such things as engines, turbines, boats, musical instruments, sewing machines, and farm and mine machinery. To do their work, they use precise measuring instruments, handtools, and power tools. They cut, shape, file, and drill holes in metal parts. They also fit, bolt, screw, rivet, or solder metal parts together.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED- R M L TRAINING TIME				
CODE	TITLE	CODE	TITLE					
00.0000	NO CIP ASSIGNED	706.381-038	SUBASSEMBLER	3	3	2	ONE	TO TWO YEARS
		706.381-042	TURBINE SUBASSEMBLER	3	2	3	ONE	TO TWO YEARS
		706.481-010	INTERNAL-COMBUSTION-ENGINE SUBASSEM	3	2	2	SIX	TO 12 MONTHS
		706.681-010	PRECISION ASSEMBLER, BENCH	3	2	2	ONE	TO TWO YEARS
		709.381-030	ORGAN-PIPE MAKER, METAL	3	2	2	TWO	TO FOUR YEARS
		712.681-022	MEDICAL-INSTRUMENT-CABLE FABRICATOR	3	2	2	THREE	TO SIX MONTHS
		806.381-034	ASSEMBLER, TUBING	3	4	2	ONE	TO TWO YEARS
01.0204	AGRICULTURAL POWER MACHINERY	624.381-018	FARM-MACHINERY SET-UP MECHANIC	4	4	4	ONE	TO TWO YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	806.381-030	ASSEMBLER, ELECTRO-MECHANICAL	4	3	3	TWO	TO FOUR YEARS
47.0102	BUSINESS MACHINE REPAIR	706.381-018	FINAL ASSEMBLER	3	2	3	ONE	TO TWO YEARS
47.0108	SMALL APPLIANCE REPAIR	706.381-034	SEWING-MACHINE ASSEMBLER	3	2	2	ONE	TO TWO YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	801.261-018	ROTARY-ENGINE ASSEMBLER	4	3	4	ONE	TO TWO YEARS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	706.361-010	ASSEMBLER	3	2	3	SIX	TO 12 MONTHS
		801.261-010	ASSEMBLER, MINING MACHINERY	4	4	3	TWO	TO FOUR YEARS
47.0402	GUNSMITHING	736.381-010	ASSEMBLER 1	3	3	2	SIX	TO 12 MONTHS
47.0404	MUSICAL INSTRUMENT REPAIR	730.381-018	BRASS-WIND-INSTRUMENT MAKER	4	4	4	TWO	TO FOUR YEARS
		730.381-030	HARP-ACTION ASSEMBLER	4	2	2	ONE	TO TWO YEARS
		730.381-046	PIPE-ORGAN INSTALLER	4	3	3	TWO	TO FOUR YEARS
		730.381-054	TROMBONE-SLIDE ASSEMBLER	3	2	2	TWO	TO FOUR YEARS
47.0604	AUTOMOTIVE MECHANICS	806.481-014	ASSEMBLER, INTERNAL COMBUSTION ENGI	4	3	3	ONE	TO TWO YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*806.361-010	ASSEMBLER-INSTALLER APPRENTICE, GEN	4	3	2	ONE	TO TWO YEARS
		*806.361-014	ASSEMBLER-INSTALLER, GENERAL	4	3	2	ONE	TO TWO YEARS
		*806.381-026	ASSEMBLER, AIRCRAFT, STRUCTURES AND	4	3	3	ONE	TO TWO YEARS
		*806.381-038	ASSEMBLY MECHANIC, EXPERIMENTAL AIR	4	3	3	TWO	TO FOUR YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 6812 PRECISION ASSEMBLERS (METAL)

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
47.0608	AIRCRAFT MECHANICS, POWERPLANT	806.361-010	ASSEMBLER-INSTALLER APPRENTICE, GEN	4	3	2	ONE TO TWO YEARS
		806.361-014	ASSEMBLER-INSTALLER, GENERAL	4	3	2	ONE TO TWO YEARS
		*806.381-022	ASSEMBLER, AIRCRAFT POWER PLANT	3	2	3	ONE TO TWO YEARS
		*806.381-038	ASSEMBLY MECHANIC, EXPERIMENTAL AIR	4	3	3	TWO TO FOUR YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	600.261-010	ASSEMBLER, STEAM-AND-GAS TURBINE	4	3	3	FOUR TO TEN YEARS
		600.281-022	MACHINE BUILDER	4	4	3	TWO TO FOUR YEARS
		600.380-026	TURBINE-BLADE ASSEMBLER	4	3	3	ONE TO TWO YEARS
		801.361-010	BLOWER AND COMPRESSOR ASSEMBLER	4	3	3	ONE TO TWO YEARS
48.0504	METAL FABRICATION	706.381-026	OPERATING-TABLE ASSEMBLER	4	3	3	ONE TO TWO YEARS
		801.261-014	FITTER 1	4	4	2	TWO TO FOUR YEARS
		801.381-014	FITTER	3	3	2	TWO TO FOUR YEARS
		806.381-058	TRAILER ASSEMBLER	3	2	2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	706.361-010	ASSEMBLER	3	2	3	SIX TO 12 MONTHS
49.0306	MARINE MAINTENANCE	806.481-010	ASSEMBLER, ALUMINUM BOATS	3	2	2	SIX TO 12 MONTHS

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OCCUPATION: 6813

MACHINISTS

MACHINISTS shape pieces of metal into machine parts. They know how to set up and operate most types of machine tools used to make or repair metal parts for cars, machines, and other equipment. They also know about the working properties of metals used to make these parts. They plan and carry out all the operations needed to make a machined product. They work from blueprints and drawings to select tools and materials for the job and plan the cutting and finishing of parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	638.281-026	PARTS SALVAGER	4 3 3	TWO TO FOUR YEARS
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	714.281-018	MACHINIST, MOTION-PICTURE EQUIPMENT	4 4 4	FOUR TO TEN YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	600.280-010	INSTRUMENT MAKER	4 4 3	TWO TO FOUR YEARS
		600.280-014	INSTRUMENT-MAKER AND REPAIRER	4 4 2	TWO TO FOUR YEARS
		600.280-018	INSTRUMENT-MAKER APPRENTICE	4 4 3	TWO TO FOUR YEARS
		600.280-022	MACHINIST	4 4 3	TWO TO FOUR YEARS
		600.280-026	MACHINIST APPRENTICE	4 4 3	TWO TO FOUR YEARS
		600.280-030	MACHINIST APPRENTICE, AUTOMOTIVE	4 3 3	TWO TO FOUR YEARS
		600.280-034	MACHINIST, AUTOMOTIVE	4 3 3	TWO TO FOUR YEARS
		600.280-038	MACHINIST, EXPERIMENTAL	4 4 3	FOUR TO TEN YEARS
		600.280-042	MAINTENANCE MACHINIST	4 4 3	TWO TO FOUR YEARS
		600.360-010	MACHINE TRY-OUT SETTER	4 4 3	TWO TO FOUR YEARS
		714.281-018	MACHINIST, MOTION-PICTURE EQUIPMENT	4 4 4	FOUR TO TEN YEARS

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OCCUPATION: 6814

BOILERMAKERS

BOILERMAKERS put together, install, and repair boilers and related equipment and attachments. They lay out, cut, fit, and then bolt, weld, or rivet heavy metal plates, boiler tubes, and castings. Some repair sheet-metal sections of train engines. Others work on stationary boilers and tanks. They follow blueprints and use handtools, measuring devices, and portable power tools and equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	805.261-010	BOILERMAKER APPRENTICE	4	4 3	TWO TO FOUR YEARS
		805.261-014	BOILERMAKER 1	4	4 3	TWO TO FOUR YEARS
		805.361-010	BOILERHOUSE MECHANIC	4	3 3	TWO TO FOUR YEARS
		805.361-014	BOILERMAKER FITTER	4	3 2	TWO TO FOUR YEARS
		805.381-010	BOILERMAKER 2	3	2 2	TWO TO FOUR YEARS

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OCCUPATION: 6816

PRECISION GRINDERS, FILERS, AND TOOL SHARPENERS

These people smooth, sharpen, or polish metal objects to precise finishes, using grinding machines. They study blueprints or job orders, select the proper grinding wheel, and mount the wheel on the machine. They also move controls and read dials to adjust the machine for depth of cut and stroke. They secure the workpiece in the machine, and then start the machine. As the machine operates, they release coolant on the wheel and workpiece. When pieces are finished, they measure them with precision devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
01.0203	AGRICULTURAL MECHANICS, CONSTRUCTION AND	701.381-014	SAW FILER	3	3	3 ONE TO TWO YEARS
		701.381-018	TOOL GRINDER 1	3	2	2 ONE TO TWO YEARS
47.0402	GUNSMITHING	705.481-010	FILER, FINISH	3	2	2 SIX TO 12 MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.381-018	GOLF-CLUB HEAD FORMER	3	2	2 ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	500.381-010	CYLINDER GRINDER	3	3	3 TWO TO FOUR YEARS
		603.280-010	GRINDER OPERATOR, EXTERNAL, TOOL	4	3	3 TWO TO FOUR YEARS
		603.280-014	GRINDER OPERATOR, SURFACE, TOOL	4	3	3 TWO TO FOUR YEARS
		603.280-018	GRINDER OPERATOR, TOOL	4	4	3 TWO TO FOUR YEARS
		603.280-022	GRINDER SET-UP OPERATOR, INTERNAL 1	4	3	3 TWO TO FOUR YEARS
		603.280-030	GRINDER SET-UP OPERATOR, UNIVERSAL	4	4	3 TWO TO FOUR YEARS
		603.280-038	TOOL-GRINDER OPERATOR	4	3	3 TWO TO FOUR YEARS
		680.380-010	CARD GRINDER	4	3	3 TWO TO FOUR YEARS
		701.381-018	TOOL GRINDER 1	3	2	2 ONE TO TWO YEARS
		705.481-010	FILER, FINISH	3	2	2 SIX TO 12 MONTHS
		705.481-014	LAPPER, HAND, TOOL	3	3	2 SIX TO 12 MONTHS

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OCCUPATION: 6817

PATTERN MAKERS AND MODEL MAKERS (METAL)

These people make exact patterns and models of objects out of metal. They study blueprints or job orders and use their knowledge of math, product design, and metals to plan the layout of patterns. They measure, mark, and scribe the layout onto metal and mark the shape of each part with a pencil and pointed tool. They then machine the parts and nail, glue, screw, or solder them together. They use templates and other precision measuring devices to check the finished patterns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	709.381-014	MODEL BUILDER	3	2	3 TWO TO FOUR YEARS
		723.361-010	MODEL MAKER, FLUORESCENT LIGHTING	4	3	3 TWO TO FOUR YEARS
		770.381-038	SAPPHIRE-STYLUS GRINDER	3	2	2 SIX TO 12 MONTHS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	692.380-010	SET-UP MECHANIC	4	3	3 ONE TO TWO YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.361-010	MODEL MAKER, SCALE	4	3	3 TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*693.260-010	DEVELOPER PROVER, MECHANICAL	4	4	4 TWO TO FOUR YEARS
48.0203	COMMERCIAL ART	979.681-010	LETTERER	3	1	1 ONE TO TWO YEARS
48.0504	METAL FABRICATION	710.361-010	MODEL MAKER, SCALE	4	3	3 TWO TO FOUR YEARS
48.0505	METAL PATTERNMAKING	600.280-046	PATTERNMAKER APPRENTICE, METAL	4	4	3 FOUR TO TEN YEARS
		600.280-050	PATTERNMAKER, METAL	4	4	3 FOUR TO TEN YEARS
		600.280-054	SAMPLE MAKER, APPLIANCES	4	3	3 FOUR TO TEN YEARS
		601.381-038	TEMPLATE MAKER	4	3	3 TWO TO FOUR YEARS
		693.281-014	PATTERNMAKER	4	3	3 TWO TO FOUR YEARS
		693.281-018	PATTERNMAKER, METAL, BENCH	4	3	4 FOUR TO TEN YEARS
		693.281-022	PATTERNMAKER, SAMPLE	4	4	4 TWO TO FOUR YEARS
		693.361-010	MODEL MAKER	4	3	4 TWO TO FOUR YEARS
		693.381-014	MOCK-UP BUILDER	4	3	4 TWO TO FOUR YEARS
48.0507	TOOL AND DIE MAKING	601.280-038	TEMPLATE MAKER, EXTRUSION DIE	4	4	4 TWO TO FOUR YEARS

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OCCUPATION: 6821

LAY-OUT WORKERS (METAL)

These workers lay out, mark, and cut metal to make patterns or parts for metal products. They study blueprints, sketches, models, or work orders to plan layouts. They use math and their knowledge of products and processes to compute the dimensions of finished products. They use handtools, drafting instruments, and measuring devices to mark lines and spots on metal sheets where parts are to be cut, punched, drilled, or bent. They also may set out, line up, fit, and assemble metal parts to form products, molds or forgings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	751.381-010	PATTERNMAKER	4 3 3	TWO TO FOUR YEARS
		809.281-010	LAY-OUT WORKER 1	4 4 3	FOUR TO TEN YEARS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.361-010	ASSISTANT DESIGNER	3 2 3	TWO TO FOUR YEARS
47.0404	MUSICAL INSTRUMENT REPAIR	730.381-014	BELL MAKER	3 1 2	TWO TO FOUR YEARS
47.0408	WATCH REPAIR	715.381-078	LOCATION-AND-MEASUREMENT TECHNICIAN	4 3 3	ONE TO TWO YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*600.381-010	PROPELLER LAY-OUT WORKER	3 2 2	ONE TO TWO YEARS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	600.381-010	PROPELLER LAY-OUT WORKER	3 2 2	ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	600.281-018	LAY-OUT WORKER	4 4 3	TWO TO FOUR YEARS
48.0504	METAL FABRICATION	809.381-014	LAY-OUT WORKER 2	3 3 2	SIX TO 12 MONTHS
48.0505	METAL PATTERNMAKING	693.381-010	AIRCRAFT LAY-OUT WORKER	4 3 4	TWO TO FOUR YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.381-026	LAY-OUT WORKER	4 2 3	TWO TO FOUR YEARS
49.0306	MARINE MAINTENANCE	806.381-046	SHIPFITTER	4 3 2	FOUR TO TEN YEARS
		806.381-050	SHIPFITTER APPRENTICE	4 3 2	FOUR TO TEN YEARS

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OCCUPATION: 6822

PRECISION HAND MOLDERS AND SHAPERS (JEWELERS)

These people make jewelry and related products, such as watch parts, plaques, and silverware. Some specialize in making molds used to cast jewelry items. They mold, shape, cast, or curve materials, such as metal, stone, glass, wood, or clay. They also may cut, saw, file, and polish articles, using handtools and polishing wheels. They may melt metals and pour them into molds to cast jewelry parts. They may solder parts together to assemble or repair jewelry items. They may mount stones in settings, or make original designs for jewelry articles from wax. These workers use precision measuring devices and may use power tools, magnifiers, or other special jewelers' equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			R M L TRAINING TIME		
CODE	TITLE	CODE	TITLE						
00.0000	NO CIP ASSIGNED	700.281-018	MODEL MAKER	4	3	3	TWO	TO	FOUR YEARS
		700.281-022	SILVERSMITH	4	2	3	TWO	TO	FOUR YEARS
		700.381-018	GOLDBEATER	3	2	2	ONE	TO	TWO YEARS
		700.381-022	HAMMERSMITH	3	1	2	ONE	TO	TWO YEARS
47.0408	WATCH REPAIR	715.381-082	PALLET-STONE INSERTER	3	2	2	ONE	TO	TWO YEARS
		715.381-086	PALLET-STONE POSITIONER	3	2	2	ONE	TO	TWO YEARS
		770.381-026	JEWEL BLOCKER AND SAWYER	3	2	2	ONE	TO	TWO YEARS
		770.381-030	JEWEL-BEARING MAKER	4	3	3	TWO	TO	FOUR YEARS
48.0505	METAL PATTERNMAKING	709.381-018	MODEL MAKER	4	3	3	TWO	TO	FOUR YEARS
		709.381-022	MODEL-MAKER APPRENTICE	4	3	3	TWO	TO	FOUR YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	502.381-010	CASTER	3	2	2	ONE	TO	TWO YEARS
		518.381-010	BENCH-MOLDER APPRENTICE	4	3	3	TWO	TO	FOUR YEARS
		518.381-022	MOLDER, BENCH	4	3	3	TWO	TO	FOUR YEARS
		700.281-010	JEWELER	4	3	3	TWO	TO	FOUR YEARS
		700.281-014	JEWELER APPRENTICE	4	3	3	TWO	TO	FOUR YEARS
		700.381-010	CHAIN MAKER, HAND	4	2	3	ONE	TO	TWO YEARS
		700.381-014	FANCY-WIRE DRAWER	4	3	3	TWO	TO	FOUR YEARS
		700.381-030	LOCKET MAKER	3	2	2	TWO	TO	FOUR YEARS
		700.381-034	MOLD MAKER 1	4	3	3	FOUR	TO	TEN YEARS
		700.381-038	MOLD-MAKER APPRENTICE	4	3	3	FOUR	TO	TEN YEARS
		700.381-042	RING MAKER	3	2	2	TWO	TO	FOUR YEARS
		700.381-046	SAMPLE MAKER 1	3	2	2	TWO	TO	FOUR YEARS
		700.381-050	SOLDERER	3	2	3	SIX	TO	12 MONTHS
		700.381-054	STONE SETTER	3	2	2	TWO	TO	FOUR YEARS
		700.381-058	STONE-SETTER APPRENTICE	3	2	2	TWO	TO	FOUR YEARS
		704.381-010	CHASER	4	2	3	ONE	TO	TWO YEARS
		704.381-018	ENGINE TURNER	3	2	2	ONE	TO	TWO YEARS
		709.381-018	MODEL MAKER	4	3	3	TWO	TO	FOUR YEARS
		709.381-022	MODEL-MAKER APPRENTICE	4	3	3	TWO	TO	FOUR YEARS

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OCCUPATION: 6822 PRECISION HAND MOLDERS AND SHAPERS (JEWELERS) (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
		735.381-010	BENCH HAND	3 2 1	ONE TO TWO YEARS
		735.381-014	PEARL RESTORER	3 2 2	ONE TO TWO YEARS
		735.381-018	SAMPLE MAKER 2	4 2 2	ONE TO TWO YEARS
		735.681-010	BRACELET AND BROOCH MAKER	3 2 1	TWO TO FOUR YEARS
		770.381-010	BEAD MAKER	3 2 2	TWO TO FOUR YEARS
50.0206	METAL/JEWELRY	*700.281-010	JEWELER	4 3 3	TWO TO FOUR YEARS
		*700.381-010	CHAIN MAKER, HAND	4 2 3	ONE TO TWO YEARS
		*700.381-030	LOCKET MAKER	3 2 2	TWO TO FOUR YEARS
		*700.381-042	RING MAKER	3 2 2	TWO TO FOUR YEARS
		*700.381-046	SAMPLE MAKER 1	3 2 2	TWO TO FOUR YEARS

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OCCUPATION: 6823

ENGRAVERS

ENGRAVERS put designs, letters, and images into surfaces of metal objects. They cut or burn these figures into metal, using etching or engraving tools and machines or acids. They may transfer photograph images onto metal plates. They may draw or prepare designs using tracing paper, paint, ink, and other materials. The objects they engrave range from dies, molds, and plates used to print designs on cloth and metal products to plates used in printing stamps, bonds, or money. Some engrave silverware, trophies, jewelry, or other objects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	704.381-022	ENGRAVER APPRENTICE, DECORATIVE	3 2 2	TWO TO FOUR YEARS
		704.381-026	ENGRAVER, HAND, HARD METALS	4 3 3	FOUR TO TEN YEARS
		704.381-034	ENGRAVER, SEALS	4 2 3	ONE TO TWO YEARS
		972.681-010	MUSIC ENGRAVER	3 1 1	ONE TO TWO YEARS
		979.281-010	DIE MAKER	4 3 3	TWO TO FOUR YEARS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	979.281-014	ENGRAVER, BLOCK	4 2 3	TWO TO FOUR YEARS
		979.281-018	ENGRAVER, PICTURE	4 3 3	FOUR TO TEN YEARS
		979.381-010	ENGRAVER 1	3 1 2	SIX TO 12 MONTHS
		979.381-030	SIDEROGRAPHER	4 3 2	ONE TO TWO YEARS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	971.261-010	ETCHER, HAND	4 2 3	ONE TO TWO YEARS
48.0210	PHOTOENGRAVING	*971.261-010	ETCHER, HAND	4 2 3	ONE TO TWO YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	704.381-030	ENGRAVER, HAND, SOFT METALS	3 2 2	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6824

SHEET METAL WORKERS

These workers assemble, install and repair sheet metal products and equipment. They also cut, bend, and straighten metal sheets to form equipment parts or sections. They make items such as duct work, ventilators, furnace casing, and roofing. They use many different handtools and power machines, including shears, punch and drill presses, soldering and welding equipment, grinders, and buffers. They work from blueprints, and use precise measuring instruments to check their assemblies and installations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
48.0506	SHEET METAL	804.281-010	SHEET-METAL WORKER	4 4 3 TWO TO FOUR YEARS
		804.281-014	SHEET-METAL-WORKER APPRENTICE	4 4 3 TWO TO FOUR YEARS

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OCCUPATION: 6829

PRECISION METAL WORKERS, MISCELLANEOUS

These workers shape and assemble metal parts in a very careful and exact manner. They make a variety of metal products, such as machine cutting tools, wire screens, furniture parts, and aircraft parts. Some rivet parts of ships or other structures. They follow work orders, drawings, diagrams, or product specifications. They use metalworking tools and machines and precision measuring devices. They may also operate ovens, furnaces, or hand torches to heat the metal before it is shaped.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	612.361-010	HEAVY FORGER	4	4	3 FOUR TO TEN YEARS
		619.361-010	FORMER, HAND	4	3	3 TWO TO FOUR YEARS
		704.381-014	DYNAMIC-ETCHING PROCESSOR	3	2	2 ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	601.380-010	CARBIDE OPERATOR	4	4	3 ONE TO TWO YEARS
		705.381-010	DIE BARBER	3	1	2 TWO TO FOUR YEARS
		809.381-034	SOLAR-FABRICATION TECHNICIAN	3	3	2 THREE TO SIX MONTHS
48.0504	METAL FABRICATION	616.681-010	WEAVER, BENCH LOOM	3	2	? SIX TO 12 MONTHS
		706.381-014	BENCH HAND	3	2	3 ONE TO TWO YEARS
		709.381-042	SPRING FORMER, HAND	3	2	2 TWO TO FOUR YEARS
		709.381-046	WIRE-MESH-FILTER FABRICATOR	4	3	3 ONE TO TWO YEARS
		734.481-010	WIRE-FRAME MAKER	2	2	2 30 TO 90 DAYS
		809.381-010	FABRICATOR-ASSEMBLER, METAL PRODUCT	3	2	2 SIX TO 12 MONTHS
		809.381-034	SOLAR-FABRICATION TECHNICIAN	3	3	2 THREE TO SIX MONTHS
48.0506	SHEET METAL	806.381-054	SKIN FITTER	3	2	2 TWO TO FOUR YEARS
48.0507	TOOL AND DIE MAKING	705.381-014	EXTRUSION-DIE REPAIRER	3	3	3 ONE TO TWO YEARS
49.0306	MARINE MAINTENANCE	809.381-030	PNEUMATIC-TOOL OPERATOR	3	2	2 TWO TO FOUR YEARS

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OCCUPATION: 6830

PRECISION WOODWORKERS

Workers in these occupations make or assemble wood products that are either complex or precisely detailed. They may make patterns that are used to form molds from which other products are made. They may build and repair wooden cabinets, high-grade furniture, or parts for wooden products. Some workers refinish damaged, worn, or used furniture. They remove old finish and apply new stain, varnish or paint. They then wax the furniture.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6831

PATTERN MAKERS AND MODEL MAKERS, WOOD

These workers lay out, cut, build, and fashion patterns used to form molds from which products can be cast. Some use wood to build full-sized or scale models of products. They work from blueprints to select wood stock, lay out the pattern, and saw each piece of wood to size. They use woodworking machines and many small handtools to shape rough pieces into final form. They assemble pattern segments by hand, using glue, screws, and nails. They carefully check each dimension with instruments, such as calipers and micrometers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*693.281-010	EXPERIMENTAL MECHANIC 1	4 4 4	TWO TO FOUR YEARS
48.0702	FURNITURE MAKING	661.280-010	PATTERNMAKER II	4 4 4	TWO TO FOUR YEARS
48.0703	MILLWORK AND CABINET MAKING	661.280-010	PATTERNMAKER II	4 4 4	TWO TO FOUR YEARS
		661.281-018	PATTERNMAKER APPRENTICE, WOOD	4 4 3	FOUR TO TEN YEARS
		661.281-022	PATTERNMAKER, WOOD	4 4 3	FOUR TO TEN YEARS
		661.380-010	MODEL MAKER, WOOD	4 4 3	TWO TO FOUR YEARS
49.0306	MARINE MAINTENANCE	761.381-014	JIG BUILDER	3 2 2	ONE TO TWO YEARS
		661.281-010	LOFT WORKER	4 4 3	TWO TO FOUR YEARS
		661.281-014	LOFT WORKER APPRENTICE	4 4 3	TWO TO FOUR YEARS

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OCCUPATION: 6832

CABINET MAKERS AND BENCH CARPENTERS

These skilled workers cut, shape, and put together the many different parts of complex or fancy wooden products. They may build and repair wooden cabinets and high-grade furniture, or make parts for wooden products such as doors, and window frames. They use wood-working machines and many types of handtools. They follow blueprints or drawings of articles to plan, cut, shape, and assemble wooden parts. They may stain, varnish, or paint finished products and install hardware such as hinges, catches, and drawer pulls.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0703	MILLWORK AND CABINET MAKING	660.280-010	CABINETMAKER	4 4 3	ONE TO TWO YEARS
		660.280-014	CABINETMAKER APPRENTICE	4 4 3	ONE TO TWO YEARS
		669.380-010	MACHINIST APPRENTICE, WOOD	4 3 3	TWO TO FOUR YEARS
		669.380-014	MACHINIST, WOOD	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6835

FURNITURE FINISHERS

These workers refinish damaged, worn, or used furniture. Some also finish new furniture. They begin by taking the furniture apart or removing its knobs and hinges to prepare it for finishing. They remove old finish from surfaces, using steel wool, sandpaper, or solvent. They fill in cracks and nicks in surfaces with plastic or wood putty and then sand the surfaces to smooth them. They mix and apply coats of stain, varnish, or paint. Once the surfaces are dry, they polish and wax them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	763.380-010	FURNITURE RESTORER	4 3 4 ONE TO TWO YEARS
48.0702	FURNITURE MAKING	763.380-010	FURNITURE RESTORER	4 3 4 ONE TO TWO YEARS
		763.381-010	FURNITURE FINISHER	4 2 2 TWO TO FOUR YEARS
		763.381-014	FURNITURE-FINISHER APPRENTICE	4 2 2 TWO TO FOUR YEARS

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OCCUPATION: 6839

MISCELLANEOUS PRECISION WOODWORKERS

These people carve and shape wood by hand and machine according to very exact patterns and measurements. They study blueprints, models, sketches, or customer orders to plan their work. They measure and mark wood stock to lay out the parts. They may operate woodworking machines and use carpenter handtools to cut, shape, finish, and assemble the parts. They may also carve designs into the wood. They use scales, templates, gauges, and rules to check the dimensions of completed articles.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	661.381-010	HAT-BLOCK MAKER	3 3 2	ONE TO TWO YEARS
		730.281-010	ACCORDION MAKER	4 3 3	FOUR TO TEN YEARS
		761.381-026	SKI MAKER, WOOD	3 3 2	SIX TO 12 MONTHS
47.0402	GUNSMITHING	761.381-034	STOCK CHECKERER 1	3 2 3	SIX TO 12 MONTHS
		761.381-038	STOCK MAKER, CUSTOM	4 3 3	TWO TO FOUR YEARS
47.0404	MUSICAL INSTRUMENT REPAIR	730.281-042	PIPE-ORGAN BUILDER	4 3 3	FOUR TO TEN YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*769.281-010	AIRPLANE WOODWORKER	4 4 3	ONE TO TWO YEARS
48.0304	SHOE AND BOOT REPAIR	761.381-018	LAST-MODEL MAKER	4 4 4	ONE TO TWO YEARS
48.0702	FURNITURE MAKING	761.281-010	CARVER, HAND	4 4 3	FOUR TO TEN YEARS
		761.281-018	MARQUETRY WORKER	4 4 3	TWO TO FOUR YEARS
48.0703	MILLWORK AND CABINET MAKING	739.481-010	CASKET ASSEMBLER	3 2 2	ONE TO TWO YEARS
		761.381-010	BOAT-OAR MAKER	3 2 2	ONE TO TWO YEARS
		761.381-022	PATTERN MARKER 1	4 4 3	TWO TO FOUR YEARS
		761.381-030	SMOKING-PIPE MAKER	4 2 2	TWO TO FOUR YEARS

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OCCUPATION: 6840

PRECISION PRINTING OCCUPATIONS

These workers may set type or make engravings of photographs to be used to print books, magazines, and newspapers. Other workers bind books by folding sections in the proper order, then sewing or stapling them together. Some workers may help prepare or pre-serve printed material. They may make special mats or plates used in printing operations. Others may make filmed copies of printed material or restore and preserve documents for libraries and museums.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R N L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6841

PRECISION TYPESETTERS

These workers assemble and set type used to print newspapers, ads, and other materials. They may set type by hand and machine. To set type, they place each line of type, letter by letter, on a printer's stick. They select the place where words will be divided, and adjust the spacing of type with pieces of metal so that each line of type will be the right width. As each stick is filled, they slide the completed line into a shallow tray called a galley. They also proofread and correct type.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	973.381-010	COMPOSITOR	4	2	3	FOUR TO TEN YEARS
		973.381-014	COMPOSITOR APPRENTICE	4	2	3	FOUR TO TEN YEARS
		973.381-018	JOB PRINTER	4	2	3	FOUR TO TEN YEARS
		973.381-022	JOB-PRINTER APPRENTICE	4	2	3	FOUR TO TEN YEARS
		973.381-026	MAKE-UP ARRANGER	4	2	3	FOUR TO TEN YEARS
		973.381-030	PROOFSHEET CORRECTOR	4	2	3	FOUR TO TEN YEARS
48.0208	PRINTING PRESS OPERATIONS	979.681-014	PRINTER	3	1	2	SIX TO 12 MONTHS

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OCCUPATION: 6842

PRECISION LITHOGRAPHERS AND PHOTOENGRAVERS

These workers transfer or copy detailed designs or pictures onto metal plates to be printed. They photograph the picture or copy to be printed, develop the negatives, and prepare the metal plates used in printing. These workers use photographic equipment. They also use chemicals and acid solutions which are mixed using standard formulas. The work often requires the use of blueprints, drafting tools, and handtools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
48.0203	COMMERCIAL ART	970.281-026	SKETCH MAKER, PHOTOENGRAVING	4	3	3	TWO TO FOUR YEARS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	970.381-030	RETOUCHER, PHOTOENGRAVING	3	3	3	TWO TO FOUR YEARS
		972.281-010	PROCESS ARTIST	4	3	2	FOUR TO TEN YEARS
		972.281-018	PROCESS-ARTIST APPRENTICE	4	3	2	FOUR TO TEN YEARS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	970.381-030	RETOUCHER, PHOTOENGRAVING	3	3	3	TWO TO FOUR YEARS
		971.381-010	ETCHER APPRENTICE, PHOTOENGRAVING	4	2	4	FOUR TO TEN YEARS
		971.381-014	ETCHER, PHOTOENGRAVING	4	2	4	FOUR TO TEN YEARS
		971.381-022	PHOTOENGRAVER	4	3	3	FOUR TO TEN YEARS
		971.381-026	PHOTOENGRAVER APPRENTICE	4	3	3	FOUR TO TEN YEARS
		971.381-030	PHOTOENGRAVING FINISHER	4	2	2	FOUR TO TEN YEARS
		971.381-034	PHOTOENGRAVING PRINTER	4	2	2	FOUR TO TEN YEARS
		971.381-038	PHOTOENGRAVING PROOFER	4	2	2	FOUR TO TEN YEARS
		971.381-040	PHOTOENGRAVING-PROOFER APPRENTICE	4	2	2	FOUR TO TEN YEARS
		971.381-050	STRIPPER	4	2	3	FOUR TO TEN YEARS
		971.381-054	STRIPPER APPRENTICE	4	2	3	FOUR TO TEN YEARS
		972.281-014	PROCESS STRIPPER	4	2	2	TWO TO FOUR YEARS
		972.381-010	LITHOGRAPHIC PLATE MAKER	4	3	3	FOUR TO TEN YEARS
		972.381-014	LITHOGRAPHIC-PLATE-MAKER APPRENTICE	4	3	3	FOUR TO TEN YEARS
		972.381-026	TRANSFERRER	3	1	1	ONE TO TWO YEARS
48.0210	PHOTOENGRAVING	*970.381-030	RETOUCHER, PHOTOENGRAVING	3	3	3	TWO TO FOUR YEARS
		*971.381-014	ETCHER, PHOTOENGRAVING	4	2	4	FOUR TO TEN YEARS
		*971.381-022	PHOTOENGRAVER	4	3	3	FOUR TO TEN YEARS
		*971.381-030	PHOTOENGRAVING FINISHER	4	2	2	FOUR TO TEN YEARS
		*971.381-034	PHOTOENGRAVING PRINTER	4	2	2	FOUR TO TEN YEARS
		*971.381-038	PHOTOENGRAVING PROOFER	4	2	2	FOUR TO TEN YEARS
		*971.381-050	STRIPPER	4	2	3	FOUR TO TEN YEARS

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OCCUPATION: 6844

BOOKBINDERS

Many printed items, such as books and magazines, must be folded, sewed, stapled, or bound after they leave the printing shops. Much of this work is done by BOOKBINDERS. These workers fold printed sheets into units, so that the pages will be in the right order. They insert any pictures that have been printed separately, then assemble pages in order and sew them together. They shape book bodies with presses and trimming machines and strengthen them with glued fabric strips. Machines are used for much of this work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0202	BOOKBINDING	653.682-010	BOOK-SEWING-MACHINE OPERATOR 2	2 1 1	THREE TO SIX MONTHS
		977.381-010	BOOKBINDER	3 2 2	TWO TO FOUR YEARS
		977.381-014	BOOKBINDER, APPRENTICE	3 2 2	TWO TO FOUR YEARS

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OCCUPATION: 6849

PRECISION PRINTING OCCUPATIONS, MISCELLANEOUS

People in these jobs help prepare or preserve printed material. Some prepare special mats or plates used in printing operations. Some make filmed copies of printed material. Some restore and preserve documents for libraries and historical societies. These workers may use handtools, power tools, chemicals, and other materials.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	719.381-010	CONTACT PRINTER, PHOTORESIST	4 3 3	ONE TO TWO YEARS
		974.381-010	ELECTROTYPYER	4 3 3	FOUR TO TEN YEARS
		974.381-014	ELECTROTYPYER APPRENTICE	4 3 3	FOUR TO TEN YEARS
		979.361-010	DOCUMENT RESTORER	4 3 3	ONE TO TWO YEARS
15.0606	OPTICAL TECHNOLOGY	719.381-010	CONTACT PRINTER, PHOTORESIST	4 3 3	ONE TO TWO YEARS
25.0201	ARCHIVAL SCIENCE	*979.361-010	DOCUMENT RESTORER	4 3 3	ONE TO TWO YEARS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	974.382-010	STEREOTYPYER APPRENTICE	4 2 2	FOUR TO TEN YEARS
		974.382-014	STEREOTYPYER	4 2 2	FOUR TO TEN YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.381-014	MICROFICHE DUPLICATOR	4 2 2	ONE TO TWO YEARS
48.0208	PRINTING PRESS OPERATIONS	659.481-010	DIE MOUNTER	3 2 2	SIX TO 12 MONTHS

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OCCUPATION: 6850

PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS

These workers design, make, maintain, or repair clothing and other sewn items that require precise workmanship. They may design, tailor, or alter suits or coats. They may make hats or leather goods such as shoes, luggage, or saddles. Some make slip covers or upholster furniture or car seats. Some clean, press, or dye clothing or fabrics, while other assemble tents or boat sails or set up patterns for fabrics.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6852

TAILORS AND DRESSMAKERS, HAND

TAILORS and DRESSMAKERS do difficult kinds of hand and machine sewing. Most are hired to make expensive clothing that needs precise shaping and finishing. Some make complete garments, but most specialize in a few operations, such as collar setting and lapel padding. These workers may design, make, alter, and/or fit tailored garments. They use sewing tools and equipment, measuring devices, and clothing patterns. Some develop designs for garments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	785.361-018	SAMPLE STITCHER	4 3 3	ONE TO TWO YEARS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	785.261-010	ALTERATION TAILOR	4 3 3	TWO TO FOUR YEARS
		785.361-010	DRESSMAKER	3 3 3	TWO TO FOUR YEARS
		785.361-014	GARMENT FITTER	3 2 2	ONE TO TWO YEARS
		785.361-018	SAMPLE STITCHER	4 3 3	ONE TO TWO YEARS
20.0305	CUSTOM TAILORING AND ALTERATION	785.261-010	ALTERATION TAILOR	4 3 3	TWO TO FOUR YEARS
		785.261-014	CUSTOM TAILOR	4 3 3	FOUR TO TEN YEARS
		785.261-018	TAILOR APPRENTICE, ALTERATION	4 3 3	TWO TO FOUR YEARS
		785.261-022	TAILOR APPRENTICE, CUSTOM	4 3 3	FOUR TO TEN YEARS
		785.361-018	SAMPLE STITCHER	4 3 3	ONE TO TWO YEARS
		785.361-022	SHOP TAILOR	4 3 3	TWO TO FOUR YEARS
		785.361-026	SHOP TAILOR APPRENTICE	4 3 3	TWO TO FOUR YEARS
20.0308	WEDDING/SPECIALTY CONSULTING	785.361-014	GARMENT FITTER	3 2 2	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 6853

UPHOLSTERERS

These workers make, repair, and replace upholstery used on furniture and inside vehicles to cover, cushion, and protect seats and other surfaces. They remove and replace worn and damaged fabrics, springs, and paddings, make slip covers and other custom made coverings for surfaces. They use handtools, sewing machines, and measuring devices. They decide the types and amounts of materials needed and may order the materials. They may take apart furniture to repair or replace upholstery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING TIME
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.381-018	FURNITURE UPHOLSTERER	4	3	3	TWO TO FOUR YEARS
		780.381-034	SLIPCOVER CUTTER	3	2	3	ONE TO TWO YEARS
		780.681-010	UPHOLSTERER, INSIDE	4	3	3	TWO TO FOUR YEARS
48.0303	UPHOLSTERING	780.381-010	AUTOMOBILE UPHOLSTERER	3	2	3	ONE TO TWO YEARS
		780.381-014	AUTOMOBILE-UPHOLSTERER APPRENTICE	3	2	3	ONE TO TWO YEARS
		780.381-018	FURNITURE UPHOLSTERER	4	3	3	TWO TO FOUR YEARS
		780.381-022	FURNITURE-UPHOLSTERER APPRENTICE	4	3	3	TWO TO FOUR YEARS
		780.381-026	HEARSE UPHOLSTERER	3	2	3	SIX TO 12 MONTHS
		780.381-034	SLIPCOVER CUTTER	3	2	3	ONE TO TWO YEARS
		780.681-010	UPHOLSTERER, INSIDE	4	3	3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6854

SHOEMAKERS AND LEATHER WORKERS AND REPAIRERS

These workers make, decorate and repair leather products such as luggage, shoes, and saddles. They use a variety of power-operated equipment, such as sole-stitchers, heel-nailing machines, and sewing machines. They also use many different handtools. Some specialize in making leather goods to order. Others decorate leather goods by cutting, stamping, or painting letters and designs on them. These workers may assemble entire products or make or repair particular parts of products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	365.361-010	LUGGAGE REPAIRER	3 2 2	ONE TO TWO YEARS
		783.381-022	LUGGAGE MAKER	3 2 3	TWO TO FOUR YEARS
48.0301	LEATHERWORKING AND UPHOLSTERY, GENERAL	783.361-010	CUSTOM-LEATHER-PRODUCTS MAKER	3 2 3	TWO TO FOUR YEARS
48.0302	SADDLEMAKING AND REPAIR	780.381-030	PAD HAND	3 2 3	SIX TO 12 MONTHS
		781.381-018	LEATHER STAMPER	3 1 1	SIX TO 12 MONTHS
		783.381-018	HARNESS MAKER	3 3 3	TWO TO FOUR YEARS
		783.381-026	SADDLE MAKER	3 3 3	FOUR TO TEN YEARS
48.0304	SHOE AND BOOT REPAIR	*365.361-014	SHOE REPAIRER	3 2 1	TWO TO FOUR YEARS
		788.261-010	ORTHOPEDIC-BOOT-AND-SHOE DESIGNER A	4 3 4	TWO TO FOUR YEARS
		788.381-010	COBBLER	3 1 2	SIX TO 12 MONTHS
		788.381-014	SHOEMAKER, CUSTOM	4 3 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6855

PRECISION LAUNDERING, CLEANING, AND DYEING OCCUPATIONS

These people clean, press, or dye garments and household fabrics. They handle difficult orders that require special attention and skill. For example, some use chemical solutions and steam to remove stubborn stains from fabrics. Some mix and apply dyes to color clothes, drapes, rugs, and other articles. Some specialize in drycleaning silk or other man-made garments that require special handling. These workers have to know the types of chemicals or dyes that can safely be used on different fabrics.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	582.261-010	COLOR MATCHER	3	2 3	ONE TO TWO YEARS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	362.381-010	SPOTTER	3	2 2	THREE TO SIX MONTHS
		363.681-010	SILK FINISHER	3	1 2	THREE TO SIX MONTHS
		364.361-010	DYER	4	3 2	TWO TO FOUR YEARS
		364.361-014	RUG DYER 1	4	3 3	FOUR TO TEN YEARS
		364.381-010	PAINTER, RUG TOUCH-UP	3	1 2	ONE TO TWO YEARS
20.0302	CLOTHING MAINTENANCE AIDE	362.381-010	SPOTTER	3	2 2	THREE TO SIX MONTHS
		363.681-010	SILK FINISHER	3	1 2	THREE TO SIX MONTHS

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OCCUPATION: 6856

APPAREL AND FABRIC PATTERNMAKERS

These workers construct patterns used in making textile products such as dresses, shoes, upholstery, hats, or similar items. Often they will sketch, trace, or draw patterns for parts and then mark the patterns and cut them out. Most use handtools such as screwdrivers, scissors, rules, and drafting tools. Some also use lathes or power tools to cut out and assemble patterns. Some workers adjust machines to knit fabric in a certain pattern. Some cast plaster patterns for hats.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	685.381-010	JACQUARD-PLATE MAKER	3 3 2	SIX TO 12 MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.381-010	CARTOON DESIGNER	4 3 3	TWO TO FOUR YEARS
		781.381-022	PATTERN GRADER-CUTTER	3 3 3	ONE TO TWO YEARS
		781.381-026	PATTERNMAKER	4 4 4	TWO TO FOUR YEARS
		781.381-034	GRADER MARKER	3 2 3	ONE TO TWO YEARS
		782.361-014	EMBROIDERY PATTERNMAKER	4 3 3	ONE TO TWO YEARS
784.361-010	PATTERNMAKER	4 3 3	TWO TO FOUR YEARS		
48.0203	COMMERCIAL ART	781.381-010	CARTOON DESIGNER	4 3 3	TWO TO FOUR YEARS
48.0304	SHOE AND BOOT REPAIR	788.281-010	DESIGNER AND PATTERNMAKER	4 4 3	TWO TO FOUR YEARS
48.0504	METAL FABRICATION	709.381-034	PATTERNMAKER	4 3 3	TWO TO FOUR YEARS
48.0505	METAL PATTERNMAKING	709.381-034	PATTERNMAKER	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6859

PRECISION APPAREL AND FABRIC WORKERS, MISCELLANEOUS

These workers do precision work with clothing and fabrics. Some design, repair, and alter costumes worn by performers. Some tan and dress fur garments. Some assemble pattern chains used to control the pattern of fabrics woven on looms. Some lay out and assemble items such as boat sails or tents. Some reweave damaged sections of costly rugs. Some custom-make items such as hats or car convertible tops. These workers use hand-sewing tools, patterns, and measuring devices. They also may use sewing machines, handtools, and gauges.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	589.361-010	FUR DRESSER	3	2	3 TWO TO FOUR YEARS
		683.381-010	CHAIN BUILDER, LOOM CONTROL	3	1	2 SIX TO 12 MONTHS
		782.381-014	ORIENTAL-RUG REPAIRER	4	3	3 ONE TO TWO YEARS
		782.381-018	RUG REPAIRER	3	2	3 ONE TO TWO YEARS
		787.381-010	LAMP-SHADE SEWER	3	2	2 ONE TO TWO YEARS
		789.381-018	TRAWL NET MAKER	3	2	3 ONE TO TWO YEARS
20.0302	CLOTHING MAINTENANCE AIDE	782.381-022	WEAVER, HAND	3	2	2 SIX TO 12 MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	712.281-014	DESIGNER	4	2	3 ONE TO TWO YEARS
		782.381-010	HAT TRIMMER	3	1	2 SIX TO 12 MONTHS
		783.261-010	FURRIER	4	3	3 FOUR TO TEN YEARS
		783.381-010	FUR CUTTER	3	3	2 TWO TO FOUR YEARS
		783.381-014	FUR FINISHER	3	2	2 ONE TO TWO YEARS
		784.261-010	MILLINER	4	2	2 ONE TO TWO YEARS
		789.381-010	BEADWORKER	3	1	2 ONE TO TWO YEARS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	346.261-010	COSTUMER	4	3	4 TWO TO FOUR YEARS
		782.361-010	CORSET FITTER	3	2	3 TWO TO FOUR YEARS
		784.261-010	MILLINER	4	2	2 ONE TO TWO YEARS
		969.381-010	WARDROBE-SPECIALTY WORKER	3	3	2 TWO TO FOUR YEARS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	962.381-010	DRAPER	3	2	2 TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*849.381-010	AIRPLANE COVERER	3	2	2 TWO TO FOUR YEARS
48.0504	METAL FABRICATION	709.381-038	REED MAKER	3	2	2 ONE TO TWO YEARS
49.0306	MARINE MAINTENANCE	739.381-010	CANVAS WORKER	4	3	2 TWO TO FOUR YEARS
		739.381-014	CANVAS-WORKER APPRENTICE	4	3	2 TWO TO FOUR YEARS
		781.381-030	SAIL-LAY-OUT WORKER	4	3	2 FOUR TO TEN YEARS
		789.261-010	BOAT-CANVAS MAKER-INSTALLER	3	3	3 ONE TO TWO YEARS

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OCCUPATION: 6860

PRECISION WORKERS: ASSORTED MATERIALS

These workers produce products that require skill and exactness. They may mold, carve, or shape products by hand as they make musical instruments, blow glass, or make molds. Others cut diamonds and other gems. Some grind optical glass for telescopes or glasses. They may make dental products such as dentures, paint decorations on dinnerware, or process and develop film. They may assemble electrical or electronic products, mix paints, or make novelty items.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6861

PRECISION HAND MOLDERS AND SHAPERS (EXCEPT JEWELERS)

These people mold, shape, or carve materials by hand. They also may lay out and assemble parts to form products. They follow work orders, diagrams, or patterns to shape parts from materials such as metal, stone, glass, wood, or clay. Some shape molds from sand and then fill the molds with molten metal to make parts products. Some pour concrete into molds to cast structures. Some shape, fit, and assemble parts of musical instruments or sports equipment. These workers use precision measuring devices, handtools, and may use power tools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	575.381-010	MOLDER	3	2 2	ONE TO TWO YEARS
		739.381-046	MANNEQUIN-MOLD MAKER	4	2 2	TWO TO FOUR YEARS
		769.381-010	COMPO CASTER	3	2 2	ONE TO TWO YEARS
		771.281-014	STONE CARVER	4	4 4	FOUR TO TEN YEARS
		771.381-010	STONECUTTER APPRENTICE, HAND	4	3 3	TWO TO FOUR YEARS
		771.381-014	STONECUTTER, HAND	4	3 3	TWO TO FOUR YEARS
		772.281-010	GLASS BLOWER, LABORATORY APPARATUS	4	2 3	FOUR TO TEN YEARS
		772.381-010	GLASS BENDER	4	3 3	FOUR TO TEN YEARS
		772.381-018	WARE FINISHER	3	2 2	ONE TO TWO YEARS
		772.681-010	GLASS BLOWER	3	2 2	TWO TO FOUR YEARS
		774.381-010	THROWER	3	2 3	TWO TO FOUR YEARS
		777.381-034	PLASTER MOLDER 1	4	3 3	TWO TO FOUR YEARS
		777.381-038	PLASTER-PATTERN CASTER	4	3 3	TWO TO FOUR YEARS
		779.281-010	CLAY MODELER	4	3 4	TWO TO FOUR YEARS
46.0402	CONCRETE PLACING AND FINISHING	575.461-010	CONCRETE-STONE FABRICATOR	3	2 2	TWO TO FOUR YEARS
47.0404	MUSICAL INSTRUMENT REPAIR	730.281-022	FRETTED-INSTRUMENT MAKER, HAND	4	3 4	FOUR TO TEN YEARS
		730.281-030	HARP MAKER	4	4 3	FOUR TO TEN YEARS
		730.281-034	HARPSICHORD MAKER	4	3 3	ONE TO TWO YEARS
		730.281-046	VIOLIN MAKER, HAND	4	3 3	FOUR TO TEN YEARS
		730.281-058	BOW MAKER	3	2 3	ONE TO TWO YEARS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.381-010	BOW MAKER, CUSTOM	4	2 2	TWO TO FOUR YEARS
48.0502	FOUNDRY WORK	502.381-014	MOLDER, PUNCH	4	3 3	TWO TO FOUR YEARS
		518.361-010	MOLDER	4	3 3	TWO TO FOUR YEARS
		518.361-014	MOLDER APPRENTICE	4	3 3	TWO TO FOUR YEARS
		518.361-018	MOLDER, SWEEP	4	3 3	TWO TO FOUR YEARS
		518.381-014	COREMAKER	3	2 2	SIX TO 12 MONTHS
		518.381-018	COREMAKER APPRENTICE	3	2 2	SIX TO 12 MONTHS
48.0505	METAL PATTERNMAKING	693.381-022	MOLDER, PATTERN	4	3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6861 PRECISION HAND MOLDERS AND SHAPERS (EXCEPT JEWELERS (CONTINUED))

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		709.381-026	MOLD STAMPER AND REPAIRER	3 2 2	ONE TO TWO YEARS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	777.261-010	MODEL MAKER 1	5 3 3	TWO TO FOUR YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	777.381-022	MOLD MAKER 2	3 1 2	TWO TO FOUR YEARS
50.0202	CERAMICS	*774.381-010	THROWER	3 2 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6862

PRECISION PATTERNMAKERS, LAY-OUT WORKERS, AND CUTTERS

These workers make patterns or models to be used as guides for making products or parts. They lay out or sketch designs and patterns. They may cut, shape, and assemble materials to form products or models. They often work from blueprints and sketches and use measuring devices, machines, and handtools. Some design and build models of items, such as pottery, aircraft, or movie sets. Some make patterns, or molds used to form parts of products. Some design and build custom-made products, such as sports equipment or stained glass windows.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	649.361-010	PATTERNMAKER, ENVELOPE	4 4 3	TWO TO FOUR YEARS
		731.280-010	MODEL MAKER	4 4 4	TWO TO FOUR YEARS
		739.281-010	PACKAGING TECHNICIAN	4 3 3	ONE TO TWO YEARS
		739.381-038	INSET CUTTER	4 3 3	ONE TO TWO YEARS
		754.381-014	PATTERNMAKER, PLASTICS	4 3 3	ONE TO TWO YEARS
		771.281-010	STENCIL CUTTER	4 2 2	ONE TO TWO YEARS
		772.381-014	PATTERNMAKER	4 3 4	FOUR TO TEN YEARS
		777.281-014	MODEL MAKER	4 3 2	TWO TO FOUR YEARS
		777.361-010	EAR-MOLD LABORATORY TECHNICIAN	4 3 2	TWO TO FOUR YEARS
		777.381-010	MODEL MAKER, FIBERGLASS	4 3 3	FOUR TO TEN YEARS
		777.381-018	MODEL-AND-MOLD MAKER, PLASTER	4 3 3	TWO TO FOUR YEARS
		777.381-026	PATTERNMAKER APPRENTICE, PLASTER	4 3 3	ONE TO TWO YEARS
		777.381-030	PATTERNMAKER, PLASTER	4 3 3	ONE TO TWO YEARS
		777.381-042	RELIEF-MAP MODELER	4 3 3	ONE TO TWO YEARS
		789.381-014	PATTERN CHART-WRITER	3 2 2	SIX TO 12 MONTHS
		962.381-018	MINIATURE-SET CONSTRUCTOR	4 4 3	TWO TO FOUR YEARS
		979.381-038	STENCIL MAKER	3 2 2	ONE TO TWO YEARS
		979.681-022	SILK-SCREEN CUTTER	3 1 2	SIX TO 12 MONTHS
08.0202	DISPLAY	739.361-010	DISPLAY MAKER	4 4 3	TWO TO FOUR YEARS
46.0201	CARPENTRY	739.261-010	EXHIBIT BUILDER	4 4 4	TWO TO FOUR YEARS
46.0406	GLAZING	779.381-010	GLAZIER, STAINED GLASS	4 3 3	TWO TO FOUR YEARS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.281-010	CUSTOM SKI MAKER	4 4 4	TWO TO FOUR YEARS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATE MAKING	972.381-018	SKETCH MAKER 2	4 2 2	TWO TO FOUR YEARS
48.0210	PHOTOENGRAVING	*972.381-018	SKETCH MAKER 2	4 2 2	TWO TO FOUR YEARS
48.0303	UPHOLSTERING	781.381-014	DESIGNER AND TEMPLATE MAKER, COVER	4 4 4	ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	693.280-010	FORM BUILDER	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 6862 PRECISION PATTERNMAKERS, LAY-OUT WORKERS AND CUTTER (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0505	METAL PATTERNMAKING	693.280-014	PATTERNMAKER, ALL-AROUND	4 4 3	FOUR TO TEN YEARS
		693.381-018	MOCK-UP BUILDER	4 3 4	TWO TO FOUR YEARS
		703.381-010	PATTERNMAKER	4 3 3	TWO TO FOUR YEARS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	777.381-014	MODEL-AND-MOLD MAKER	4 2 2	ONE TO TWO YEARS
		777.681-010	MOLD MAKER	3 1 2	ONE TO TWO YEARS

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OCCUPATION: 6863

DETAIL DESIGN PAINTERS AND DECORATORS

These workers carve, print, draw, or engrave designs and decorations on objects. They work with a variety of products. For example, some engrave rubber stamps or paint designs on dinnerware. Some make tabletop insets from colored glass. Some restore or touch up photographs. Some paint faces on dolls. Some do fancy lettering for diplomas and awards. Some cut out letters to make signs for outdoor ads. They may use a variety of tools and materials, including paints, handtools, measuring devices, and machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	733.381-010	ENGRAVER, RUBBER	4	3	2	TWO TO FOUR YEARS
		740.381-010	DECORATOR	4	2	3	ONE TO TWO YEARS
		740.381-014	LUSTER APPLICATOR	3	2	2	ONE TO TWO YEARS
		740.381-018	PAINTER	3	2	2	SIX TO 12 MONTHS
		740.681-010	LINER	3	1	1	SIX TO 12 MONTHS
		749.381-010	GILDER	3	1	1	ONE TO TWO YEARS
		754.381-010	INTERNAL CARVER	4	3	3	TWO TO FOUR YEARS
		773.381-010	TILE DECORATOR	3	2	3	THREE TO SIX MONTHS
		775.381-010	ENGRAVER	3	2	2	ONE TO TWO YEARS
		775.381-014	GLASS DECORATOR	4	3	3	ONE TO TWO YEARS
		779.381-014	MOSAIC WORKER	3	2	2	SIX TO 12 MONTHS
		779.381-022	TRACER	4	3	3	TWO TO FOUR YEARS
		970.581-010	MUSIC GRAPHER	3	2	3	ONE TO TWO YEARS
08.0202	DISPLAY	970.281-022	SIGN WRITER, HAND	4	3	3	SIX TO 12 MONTHS
48.0203	COMMERCIAL ART	970.281-010	AIRBRUSH ARTIST	4	2	3	TWO TO FOUR YEARS
		970.281-014	DELINEATOR	4	3	3	TWO TO FOUR YEARS
		970.281-022	SIGN WRITER, HAND	4	3	3	SIX TO 12 MONTHS
		970.381-014	DECORATOR, MANNEQUIN	3	2	2	ONE TO TWO YEARS
		970.381-018	LAY-OUT FORMER	4	2	3	TWO TO FOUR YEARS
		970.381-022	PAINTER, HAND	4	2	3	TWO TO FOUR YEARS
		970.381-026	PAINTER, SIGN	4	3	3	TWO TO FOUR YEARS
		970.381-038	STENCIL CUTTER	4	3	3	TWO TO FOUR YEARS
		970.381-042	TYPE COPYIST	4	3	3	TWO TO FOUR YEARS
		970.661-010	ENGROSSER	3	2	2	FOUR TO TEN YEARS
		970.661-014	LETTERER	3	2	2	ONE TO TWO YEARS
		970.681-018	INKER AND OPAQUER	3	1	1	TWO TO FOUR YEARS
		970.681-022	MANUGRAPHER	3	2	2	THREE TO SIX MONTHS
		970.681-026	PAINTER, ANIMATED CARTOONS	3	1	1	THREE TO SIX MONTHS
		970.681-030	PAINTER, PLATE	3	1	2	ONE TO TWO YEARS
48.0204	COMMERCIAL PHOTOGRAPHY	970.281-010	AIRBRUSH ARTIST	4	2	3	TWO TO FOUR YEARS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	970.361-010	FORM DESIGNER	3	3	3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6863 DETAIL DESIGN PAINTERS AND DECORATORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		970.681-010	BEN-DAY ARTIST	3 1 2	ONE TO TWO YEARS
		973.681-010	GALLEY STRIPPER	3 2 2	SIX TO 12 MONTHS
		979.381-034	SKETCH MAKER 1	3 1 1	THREE TO SIX MONTHS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKIN	970.361-014	REPEAT CHIEF	4 3 3	TWO TO FOUR YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.681-010	DEVELOPER	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 6864

OPTICAL GOODS WORKERS

These workers make eyeglasses, contact lenses, and other optical devices. They work from detailed instructions to cut, grind, polish, and lay out lenses. They assemble products such as telescopes, gunsights, glass eyes, and eyeglasses. Some workers assemble complete products. Others specialize in a particular operation, such as coating, polishing, cutting or mounting lenses. These workers use precision handtools and measuring instruments. Many also use machines such as special lathes, polishers, and grinders.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	711.381-010	OPTICAL-INSTRUMENT ASSEMBLER	4 3 4	ONE TO TWO YEARS
		713.261-010	ARTIFICIAL-GLASS-EYE MAKER	4 2 4	FOUR TO TEN YEARS
		713.261-014	ARTIFICIAL-PLASTIC-EYE MAKER	4 3 4	FOUR TO TEN YEARS
		713.361-010	OPTICIAN APPRENTICE, DISPENSING	4 4 4	TWO TO FOUR YEARS
		713.361-014	OPTICIAN, DISPENSING 1	4 4 4	TWO TO FOUR YEARS
		713.381-010	LENS-MOLD SETTER	3 3 2	SIX TO 12 MONTHS
		713.681-010	LENS MOUNTER 2	3 2 3	ONE TO TWO YEARS
		716.280-008	OPTICIAN	4 4 4	FOUR TO TEN YEARS
		716.280-010	OPTICIAN APPRENTICE	4 4 4	FOUR TO TEN YEARS
		716.280-014	OPTICIAN	4 4 4	FOUR TO TEN YEARS
		716.381-014	LAY-OUT TECHNICIAN	3 3 3	ONE TO TWO YEARS
		716.382-010	LATHE OPERATOR, CONTACT LENS	3 3 3	SIX TO 12 MONTHS
		716.382-014	OPTICAL-ELEMENT COATER	3 2 2	SIX TO 12 MONTHS
		716.462-010	PRECISION-LENS CENTERER AND EDGER	3 3 2	ONE TO TWO YEARS
		716.681-010	BLOCKER AND CUTTER, CONTACT LENS	3 2 3	SIX TO 12 MONTHS
		716.681-014	GLASS CUTTER, HAND	3 2 2	THREE TO SIX MONTHS
		716.681-018	LENS POLISHER, HAND	3 2 2	SIX TO 12 MONTHS
		716.682-018	PRECISION-LENS POLISHER	3 2 2	TWO TO FOUR YEARS
15.0606	OPTICAL TECHNOLOGY	716.280-008	OPTICIAN	4 4 4	FOUR TO TEN YEARS
		716.280-010	OPTICIAN APPRENTICE	4 4 4	FOUR TO TEN YEARS
		716.280-014	OPTICIAN	4 4 4	FOUR TO TEN YEARS
17.0701	OPHTHALMIC DISPENSING	713.361-010	OPTICIAN APPRENTICE, DISPENSING	4 4 4	TWO TO FOUR YEARS
		713.361-014	OPTICIAN, DISPENSING 1	4 4 4	TWO TO FOUR YEARS
17.0705	OPTOMETRIC TECHNOLOGY	713.361-010	OPTICIAN APPRENTICE, DISPENSING	4 4 4	TWO TO FOUR YEARS
		713.361-014	OPTICIAN, DISPENSING 1	4 4 4	TWO TO FOUR YEARS
18.1201	OPTOMETRY	*716.280-014	OPTICIAN	4 4 4	FOUR TO TEN YEARS

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OCCUPATION: 6865

DENTAL LABORATORY TECHNICIANS

These workers make dentures (false teeth), crowns, and inlays used to restore people's teeth. They also make bridges of metal and porcelain used to replace missing teeth, and special devices used to straighten teeth. They work from written instructions from DENTISTS and impressions made of patients' teeth and mouths. Beginners usually mix and pour plaster into casts and molds and do other simple tasks. Experienced workers do the more difficult lab work, such as making crowns, or plaster molds for dentures. These workers use hand instruments, as well as special lathes and drills, high heat furnaces, and other lab equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
17.0103	DENTAL LABORATORY TECHNOLOGY	712.281-010	DENTAL CERAMIST	3 3 3	ONE TO TWO YEARS
		712.381-014	CONTOUR WIRE SPECIALIST, DENTURE	4 3 3	TWO TO FOUR YEARS
		712.381-018	DENTAL-LABORATORY TECHNICIAN	4 3 4	FOUR TO TEN YEARS
		712.381-022	DENTAL-LABORATORY-TECHNICIAN, APPREN	4 3 4	FOUR TO TEN YEARS
		712.381-026	ORTHODONTIC GOLD-BAND MAKER	3 2 2	ONE TO TWO YEARS
		712.381-030	ORTHODONTIC TECHNICIAN	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 6866

GEM AND DIAMOND WORKING OCCUPATIONS

People in these jobs cut, shape, polish, split, and select diamonds and other precious stones for use in jewelry, watches, cutting tools, and other items. Their jobs require a high degree of skill and care. They use precision measuring instruments, machines, and handtools to shape and finish stones. For example, they may cut rough stones into shapes for ring mountings or grind jewels to make watch bearings or tips for phonograph needles. Some prepare diamonds for use in machine dies or industrial cutting tools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	770.381-018	DIAMOND DRILLER	3 2 2	SIX TO 12 MONTHS
		770.381-022	DIAMOND-DIE POLISHER	3 2 2	SIX TO 12 MONTHS
		770.382-014	PHONOGRAPH-NEEDLE-TIP MAKER	3 2 2	SIX TO 12 MONTHS
47.0408	WATCH REPAIR	770.381-034	OLIVING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	770.261-010	BRILLIANDEER-LOPPER	3 2 2	ONE TO TWO YEARS
		770.261-014	GIRDLER	3 2 2	ONE TO TWO YEARS
		770.281-010	DIAMOND SELECTOR	4 2 3	FOUR TO TEN YEARS
		770.281-014	GEM CUTTER	4 3 3	ONE TO TWO YEARS
		770.381-014	DIAMOND CLEAVER	3 2 2	ONE TO TWO YEARS
		770.382-010	LATHE OPERATOR	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 6867

PRECISION ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS

These workers follow blueprints and wiring diagrams to put together electrical or electronic equipment parts and products. The equipment they assemble includes, for example, electric control units, telegraph equipment, heating elements, and electric organs. They use test meters, precision measuring instruments, and a variety of handtools and power equipment to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING TIME
46.0302	ELECTRICIAN	825.381-022	ELECTRICAL AND RADIO MOCK-UP MECHAN	4	3	3	TWO TO FOUR YEARS
47.0103	COMMUNICATION ELECTRONICS	722.381-010	ASSEMBLER	4	3	3	TWO TO FOUR YEARS
		726.361-010	ELECTRONICS UTILITY WORKER	3	3	2	ONE TO TWO YEARS
47.0104	COMPUTER ELECTRONICS	726.361-010	ELECTRONICS UTILITY WORKER	3	3	2	ONE TO TWO YEARS
47.0105	INDUSTRIAL ELECTRONICS	724.361-010	WIRE COILER	3	2	3	SIX TO 12 MONTHS
		724.381-014	COIL WINDER, REPAIR	3	2	2	SIX TO 12 MONTHS
		726.361-010	ELECTRONICS UTILITY WORKER	3	3	2	ONE TO TWO YEARS
		826.361-010	ASSEMBLER AND WIRER, INDUSTRIAL EQU	4	3	3	TWO TO FOUR YEARS
47.0107	MOTOR REPAIR	828.381-014	PRECISION ASSEMBLER	4	4	4	TWO TO FOUR YEARS
		721.381-014	ELECTRIC-MOTOR-CONTROL ASSEMBLER	4	3	2	ONE TO TWO YEARS
		724.381-014	COIL WINDER, REPAIR	3	2	2	SIX TO 12 MONTHS
		820.361-014	ELECTRIC-MOTOR-AND-GENERATOR ASSEMB	4	4	4	ONE TO TWO YEARS
47.0108	SMALL APPLIANCE REPAIR	820.381-014	TRANSFORMER ASSEMBLER	4	4	3	ONE TO TWO YEARS
		724.361-010	WIRE COILER	3	2	3	SIX TO 12 MONTHS
47.0404	MUSICAL INSTRUMENT REPAIR	730.381-022	ELECTRIC-ORGAN ASSEMBLER AND CHECKE	3	2	2	ONE TO TWO YEARS

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OCCUPATION: 6868

PHOTOGRAPHIC PROCESS WORKERS

These workers process photographic film and prints. They do such things as expose, develop, print, and finish photographs. Some specialize in a certain process, such as retouching negatives or tinting or copying photos. The equipment they use may include cameras, printers, and enlargers. They also may use chemical solutions, timers, paper cutters, artist tools, and small handtools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- CODE TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GED- R M L TRAINING TIME
10.0102 MOTION PICTURE TECHNOLOGY	962.361-010 OPTICAL-EFFECTS LAYOUT PERSON	3 3 3 ONE TO TWO YEARS
10.0103 PHOTOGRAPHIC TECHNOLOGY	976.381-010 FILM LABORATORY TECHNICIAN I	4 4 4 TWO TO FOUR YEARS
10.0106 VIDEO TECHNOLOGY	*976.381-010 FILM LABORATORY TECHNICIAN I	4 4 4 TWO TO FOUR YEARS
48.0205 TYPESETTING, MAKE-UP, AND COMPOSITION	979.381-018 PASTE-UP COPY-CAMERA OPERATOR	4 3 2 FOUR TO TEN YEARS
	979.381-022 PASTE-UP COPY-CAMERA OPERATOR APPRE	4 3 2 FOUR TO TEN YEARS
48.0206 LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	972.381-022 STRIPPER, PHOTO LITHOGRAPHIC	4 3 3 FOUR TO TEN YEARS
48.0207 PHOTOGRAPHIC LABORATORY AND DARKROOM	970.281-018 PHOTOGRAPH RETOUCHER	4 2 3 ONE TO TWO YEARS
	970.381-010 COLORIST, PHOTOGRAPHY	3 1 2 ONE TO TWO YEARS
	970.381-034 SPOTTER, PHOTOGRAPHIC	3 2 1 SIX TO 12 MONTHS
	976.361-010 REPRODUCTION TECHNICIAN	4 2 2 ONE TO TWO YEARS
	976.381-010 FILM LABORATORY TECHNICIAN I	4 4 4 TWO TO FOUR YEARS
	976.381-018 PROJECTION PRINTER	3 2 2 TWO TO FOUR YEARS
	976.382-022 PHOTOSTAT OPERATOR	3 2 2 SIX TO 12 MONTHS
48.0209 SILK SCREEN MAKING AND PRINTING	971.381-042 SCREEN MAKER, PHOTOGRAPHIC PROCESS	4 3 2 TWO TO FOUR YEARS

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OCCUPATION: 6869

MISCELLANEOUS PRECISION WORKERS, N.E.C.

These workers follow detailed instructions to make or process products or materials. The products they may work with include: food flavorings, paints, medical equipment, photographic plates, TV tubes, and novelty items. Generally, they work from formulas, blue-prints, diagrams, or other sets of instructions. They may use handtools, machines, and test equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	529.381-010	COMPOUNDER, FLAVORINGS	4 2 3	ONE TO TWO YEARS
		530.261-010	COLOR DEVELOPER	4 4 4	TWO TO FOUR YEARS
		550.381-014	TINTER	3 2 2	ONE TO TWO YEARS
		712.381-010	ARCH-SUPPORT TECHNICIAN	3 2 2	SIX TO 12 MONTHS
		712.381-034	ORTHOTICS TECHNICIAN	4 3 4	ONE TO TWO YEARS
		712.381-038	PROSTHETICS TECHNICIAN	4 4 4	ONE TO TWO YEARS
		714.381-018	PHOTOGRAPHIC-PLATE MAKER	4 3 3	ONE TO TWO YEARS
		731.381-010	DICE MAKER	3 2 2	ONE TO TWO YEARS
		733.331-014	RUBBER-STAMP MAKER	4 3 3	ONE TO TWO YEARS
		737.381-010	ASSEMBLER, IGNITER	3 3 3	ONE TO TWO YEARS
		739.381-026	EXPERIMENTAL ASSEMBLER	4 4 4	ONE TO TWO YEARS
		739.381-030	FABRICATOR, SHOWER DOORS AND PANELS	3 3 2	SIX TO 12 MONTHS
		739.381-042	MANNEQUIN WIG MAKER	3 2 2	ONE TO TWO YEARS
		739.381-050	SOUVENIR AND NOVELTY MAKER	3 3 3	SIX TO 12 MONTHS
		739.381-058	WIG MAKER	3 2 3	TWO TO FOUR YEARS
		759.261-010	PROTOTYPE-DECOR ASSEMBLER	4 3 3	ONE TO TWO YEARS
		770.381-042	SPOTTER	4 3 3	ONE TO TWO YEARS
		806.281-014	EXPERIMENTAL MECHANIC, ELECTRICAL	4 4 3	TWO TO FOUR YEARS
		806.381-042	CABLE ASSEMBLER, MOCK-UP	4 4 3	TWO TO FOUR YEARS
		869.381-026	SIGN ERECTOR 1	4 2 3	TWO TO FOUR YEARS
		971.381-058	TEMPLATE REPRODUCTION TECHNICIAN	4 2 2	TWO TO FOUR YEARS
01.0204	AGRICULTURAL POWER MACHINERY	809.381-018	MILKING-SYSTEM INSTALLER	4 3 3	ONE TO TWO YEARS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	712.261-010	MEDICAL-APPARATUS MODEL MAKER	4 4 4	ONE TO TWO YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	712.261-010	MEDICAL-APPARATUS MODEL MAKER	4 4 4	ONE TO TWO YEARS
41.0201	NUCLEAR MATERIALS HANDLING TECHNOLOGY	709.381-010	ATOMIC-FUEL ASSEMBLER	4 2 2	THREE TO SIX MONTHS
46.0201	CARPENTRY	869.381-014	LABORATORY-EQUIPMENT INSTALLER	3 3 3	TWO TO FOUR YEARS
		869.481-010	AWNING MAKER-AND-INSTALLER	3 3 2	SIX TO 12 MONTHS
46.0302	ELECTRICIAN	826.381-010	FABRICATOR, INDUSTRIAL FURNACE	3 3 3	ONE TO TWO YEARS
47.0103	COMMUNICATION ELECTRONICS	725.381-010	TUBE REBUILDER	4 3 4	ONE TO TWO YEARS

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OCCUPATION: 6869 MISCELLANEOUS PRECISION WORKERS, NOT ELSEWHERE CLAS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
47.0105	INDUSTRIAL ELECTRONICS	714.381-010	ASSEMBLER, PHOTOGRAPHIC EQUIPMENT	4 3 3	TWO TO FOUR YEARS
		725.381-010	TUBE REBUILDER	4 3 4	ONE TO TWO YEARS
47.0107	MOTOR REPAIR	721.381-018	GOVERNOR ASSEMBLER, HYDRAULIC	4 3 2	TWO TO FOUR YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.681-026	THERMOMETER MAKER	3 2 2	THREE TO SIX MONTHS
47.0404	MUSICAL INSTRUMENT REPAIR	730.381-050	PLAYER-PIANO TECHNICIAN	3 3 3	THREE TO SIX MONTHS
		730.681-014	PISTON MAKER	3 2 2	SIX TO 12 MONTHS
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	714.381-010	ASSEMBLER, PHOTOGRAPHIC EQUIPMENT	4 3 3	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	820.361-010	CORROSION-CONTROL FITTER	4 3 3	TWO TO FOUR YEARS
48.0209	SILK SCREEN MAKING AND PRINTING	971.381-046	SCREEN MAKER, TEXTILE	4 2 2	TWO TO FOUR YEARS
48.0304	SHOE AND BOOT REPAIR	753.381-010	BOOTMAKER, HAND	3 2 2	THREE TO SIX MONTHS
48.0504	METAL FABRICATION	809.261-010	ASSEMBLER, GROUND SUPPORT EQUIPMENT	4 3 3	TWO TO FOUR YEARS
48.0604	PLASTICS	550.381-010	COLOR MATCHER	3 2 3	SIX TO 12 MONTHS

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OCCUPATION: 6870

PRECISION FOOD PRODUCTION OCCUPATIONS

These workers follow recipes, procedures, or other instructions to prepare food. They may work as bakers, making breads, cakes, and pies. Others may specialize in pastries or cake decorating. Some make large batches of food, such as cheese, candy, or gum, while others make things to order, such as ice cream specialties or custom blends of tobacco. Other workers cut meat for restaurants, stores, meat packing firms, and slaughter houses.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6871

BUTCHERS AND MEAT CUTTERS

BUTCHERS and MEAT CUTTERS cut meat into sections using knives, saws, slicers, and power cutters. Some work in restaurants and other eating places. They cut, trim, and bone sections of meat to make roasts, steaks, chops, and grinding meat. Others work in slaughter houses or meat packing firms. They kill, skin, and cut up animals such as cattle, sheep, and hogs. They also may trim, sort, and wash the internal organs of animals.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	525.361-010	SHACTOR	3 2 2 SIX TO 12 MONTHS
48.0402	MEATCUTTING	316.681-010	BUTCHER, MEAT	3 2 2 ONE TO TWO YEARS
48.0403	SLAUGHTERING AND BUTCHERING	525.331-010	BUTCHER APPRENTICE	3 2 2 ONE TO TWO YEARS
		525.381-014	BUTCHER, ALL-ROUND	3 2 2 ONE TO TWO YEARS

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OCCUPATION: 6872

BAKERS

BAKERS mix and bake ingredients according to recipes to make large amounts of bread and other baked goods. They measure and mix flour, sugar, shortening, and other ingredients to prepare batters, doughs, fillings, and icings. They roll, cut, and shape dough to form sweet rolls, pie crusts, tarts, and cookies. They place dough in pans, molds, or on sheets and bake it in an oven or on a grill. They may put toppings on baked goods. Some BAKERS specialize in a certain product such as bread or pies. Others bake bread to test flour.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	526.381-018	BAKER, TEST	3 2 2	ONE TO TWO YEARS
20.0402	BAKING	526.381-010	BAKER	3 2 2	TWO TO FOUR YEARS
		526.381-014	BAKER APPRENTICE	3 2 2	TWO TO FOUR YEARS

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OCCUPATION: 6873

BATCHMAKERS (CANDYMAKERS, CHEESEMAKERS, ETC.)

BATCHMAKERS prepare large amounts (or large batches) of candy, cheese, honey, or other foods used in products such as candy bars, gum, and processed cheese or honey. They follow recipes or formulas to mix, cook, and prepare ingredients to make these food items. They may create new recipes for food products. BATCHMAKERS use many different kinds of cooking tools and equipment. They may tend large machines that process foods. They may direct other workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0402	FOOD PRODUCTS	520.361-010	HONEY GRADER-AND-BLENDER	4 3 3	ONE TO TWO YEARS
02.0301	FOOD SCIENCES	520.361-010	HONEY GRADER-AND-BLENDER	4 3 3	ONE TO TWO YEARS
		529.361-018	CHEESEMAKER	4 3 4	TWO TO FOUR YEARS
15.0602	FOOD PROCESSING TECHNOLOGY	520.361-010	HONEY GRADER-AND-BLENDER	4 3 3	ONE TO TWO YEARS
20.0406	FOOD SERVICE	529.361-010	ALMOND-PASTE MIXER	4 2 3	FOUR TO TEN YEARS
		529.361-014	CANDY MAKER	4 3 4	TWO TO FOUR YEARS

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OCCUPATION: 6879

PRECISION FOOD WORKERS, MISCELLANEOUS

These people follow recipes or other precise directions to prepare foods or related products. For example, some decorate cakes and other pastries. Some mold and decorate ice cream. Some cook food to be canned, and then test them to make sure they are completely cooked. Some prepare special blends of tobacco to customer order. These workers use precision devices, such as meters, weighing and measuring tools, and formulas or recipes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	790.381-010	TOBACCO BLENDER	3 2 2	ONE TO TWO YEARS
20.0402	BAKING	524.381-010	CAKE DECORATOR	3 2 2	ONE TO TWO YEARS
20.0406	FOOD SERVICE	524.381-014	DECORATOR	4 3 3	ONE TO TWO YEARS
		526.381-026	COOK, KETTLE	3 2 2	ONE TO TWO YEARS

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OCCUPATION: 6880

PRECISION INSPECTORS, TESTERS, AND RELATED WORKERS

These workers use precision tools to measure, test, inspect, and adjust products, instruments, and equipment. They may inspect products for defects, wear, or other problems. They may assemble and adjust precision instruments such as scales, gun sights, or switches in control devices. They may adjust and repair items or products, using handtools, precision instruments, and testing devices. They may work from blueprints or sketches.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6881

PRECISION INSPECTORS, TESTERS, AND GRADERS

These people inspect and test parts, products, and equipment, and then record or report their findings. They look for defects, wear, and other problems with equipment or products and, in some cases, grade parts or products. Most of these workers use precision measuring instruments, complex test equipment, and handtools. Some also adjust and repair faulty equipment used in production work. These workers are found in many settings, and their specific work duties vary.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	526.381-022	CAKE TESTER	3	2	2	ONE TO TWO YEARS
		529.281-010	TASTER	4	3	4	TWO TO FOUR YEARS
		559.381-014	RUBBER TESTER	3	2	2	ONE TO TWO YEARS
		601.261-010	INSPECTOR, SET-UP AND LAY-OUT	4	4	4	FOUR TO TEN YEARS
		612.261-010	INSPECTOR	4	3	3	ONE TO TWO YEARS
		616.361-010	SPRING INSPECTOR 1	4	3	3	TWO TO FOUR YEARS
		619.381-010	INSPECTOR	3	3	3	ONE TO TWO YEARS
		622.281-010	LOCOMOTIVE INSPECTOR	4	3	3	TWO TO FOUR YEARS
		622.381-034	RAILROAD WHEELS AND AXLE INSPECTOR	4	3	3	ONE TO TWO YEARS
		622.381-038	SALVAGE INSPECTOR	4	3	3	ONE TO TWO YEARS
		683.260-022	SWATCH CHECKER	4	3	3	TWO TO FOUR YEARS
		683.360-014	LOOM STARTER	4	2	3	TWO TO FOUR YEARS
		701.261-010	QUALITY-CONTROL INSPECTOR	4	3	3	ONE TO TWO YEARS
		709.261-010	INSPECTOR, AIRCRAFT ACCESSORIES	4	3	3	ONE TO TWO YEARS
		711.281-010	INSPECTOR, OPTICAL INSTRUMENT	4	4	4	TWO TO FOUR YEARS
		716.381-010	INSPECTOR, PRECISION	4	3	4	TWO TO FOUR YEARS
		719.361-010	RETICLE INSPECTOR	4	3	3	TWO TO FOUR YEARS
		727.381-010	BATTERY RECHARGER	3	2	2	SIX TO 12 MONTHS
		727.381-018	DRY-CELL TESTER	4	3	3	ONE TO TWO YEARS
		727.381-022	STORAGE BATTERY INSPECTOR AND TESTER	4	2	4	TWO TO FOUR YEARS
		729.281-046	X-RAY-EQUIPMENT TESTER	4	3	3	ONE TO TWO YEARS
		733.281-010	BALLPOINT PEN CARTRIDGE TESTER	3	2	2	SIX TO 12 MONTHS
		736.381-018	PROCESS INSPECTOR	3	2	3	ONE TO TWO YEARS
		759.381-010	RUBBER-GOODS TESTER	3	2	3	ONE TO TWO YEARS
		775.281-010	SURFACE-PLATE FINISHER	4	4	3	TWO TO FOUR YEARS
		777.381-046	SAND TESTER	3	2	2	ONE TO TWO YEARS
		806.261-022	TESTER, ROCKET ENGINE	4	4	3	FOUR TO TEN YEARS
		806.281-010	DYNAMOMETER TESTER, MOTOR	4	3	3	ONE TO TWO YEARS
		806.281-022	INSPECTOR, ASSEMBLIES AND INSTALLATION	4	3	2	TWO TO FOUR YEARS
		806.281-026	INSPECTOR, BENCH ASSEMBLY	4	2	2	TWO TO FOUR YEARS
		806.281-042	MOTOR AND CHASSIS INSPECTOR	3	2	3	ONE TO TWO YEARS
		806.281-050	TEST DRIVER 1	3	2	3	ONE TO TWO YEARS
		806.361-022	INSPECTOR, FABRICATION	3	2	2	ONE TO TWO YEARS
		825.361-014	VIBRATOR-EQUIPMENT TESTER	3	3	3	ONE TO TWO YEARS

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OCCUPATION: 6881 PRECISION INSPECTORS, TESTERS, AND GRADERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		851.262-010	SEWER-LINE REPAIRER, TELE-GROUT	4 3 2	TWO TO FOUR YEARS
01.0204	AGRICULTURAL POWER MACHINERY	624.361-010	INSPECTOR AND TESTER	4 3 3	ONE TO TWO YEARS
		706.361-014	ASSEMBLY INSPECTOR	3 2 1	SIX TO 12 MONTHS
		801.381-018	MAJOR-ASSEMBLY INSPECTOR	3 2 2	ONE TO TWO YEARS
02.0301	FOOD SCIENCES	529.281-010	TASTER	4 3 4	TWO TO FOUR YEARS
15.0301	COMPUTER TECHNOLOGY	706.384-010	INSPECTOR-ADJUSTER, OFFICE-MACHINE	3 2 3	30 TO 90 DAYS
15.0302	ELECTRICAL TECHNOLOGY	729.381-010	ELECTRICAL-EQUIPMENT TESTER	3 3 3	ONE TO TWO YEARS
		822.261-014	EQUIPMENT INSPECTOR	4 4 3	FOUR TO TEN YEARS
		822.261-018	MAINTENANCE INSPECTOR	4 3 3	FOUR TO TEN YEARS
		822.261-026	TESTING-AND-REGULATING TECHNICIAN	4 3 3	TWO TO FOUR YEARS
15.0303	ELECTRONIC TECHNOLOGY	726.281-014	ELECTRONICS TESTER 1	4 4 3	TWO TO FOUR YEARS
15.0401	BIOMEDICAL EQUIPMENT TECHNOLOGY	729.281-046	X-RAY-EQUIPMENT TESTER	4 3 3	ONE TO TWO YEARS
15.0402	COMPUTER SERVICING TECHNOLOGY	706.384-010	INSPECTOR-ADJUSTER, OFFICE-MACHINE	3 2 3	30 TO 90 DAYS
15.0403	ELECTROMECHANICAL TECHNOLOGY	825.261-014	ELEVATOR EXAMINER-AND-ADJUSTER	4 3 3	FOUR TO TEN YEARS
		869.261-014	MECHANICAL-TEST TECHNICIAN	4 3 3	TWO TO FOUR YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	710.381-034	INSPECTOR	4 3 3	ONE TO TWO YEARS
		869.261-014	MECHANICAL-TEST TECHNICIAN	4 3 3	TWO TO FOUR YEARS
15.0405	ROBOTICS TECHNOLOGY	*726.281-014	ELECTRONICS TESTER 1	4 4 3	TWO TO FOUR YEARS
15.0602	FOOD PROCESSING TECHNOLOGY	529.281-010	TASTER	4 3 4	TWO TO FOUR YEARS
15.0603	INDUSTRIAL TECHNOLOGY	601.261-010	INSPECTOR, SET-UP AND LAY-OUT	4 4 4	FOUR TO TEN YEARS
15.0606	OPTICAL TECHNOLOGY	716.381-010	INSPECTOR, PRECISION	4 3 4	TWO TO FOUR YEARS
		719.361-010	RETICLE INSPECTOR	4 3 3	TWO TO FOUR YEARS
15.0610	WELDING TECHNOLOGY	819.281-018	WELD INSPECTOR 1	4 4 3	TWO TO FOUR YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	709.281-018	ULTRASONIC TESTER	4 3 3	ONE TO TWO YEARS
		819.281-018	WELD INSPECTOR 1	4 4 3	TWO TO FOUR YEARS
15.0801	AERONAUTICAL TECHNOLOGY	621.261-014	ENGINE TESTER	4 3 4	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		806.281-030	INSPECTOR, MISSILE	4	4	3	TWO TO FOUR YEARS
		806.281-034	INSPECTOR, REINFORCED PLASTICS	4	4	3	TWO TO FOUR YEARS
		806.281-046	OUTSIDE PRODUCTION INSPECTOR	4	3	2	TWO TO FOUR YEARS
15.0804	MARINE PROPULSION TECHNOLOGY	625.261-010	DIESEL-ENGINE TESTER	4	3	3	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	930.261-014	FORMATION-TESTING OPERATOR	4	3	3	ONE TO TWO YEARS
46.0201	CARPENTRY	860.261-010	CARPENTER INSPECTOR	4	2	3	TWO TO FOUR YEARS
46.0303	LINWORKER	821.381-014	VOLTAGE TESTER	4	4	3	TWO TO FOUR YEARS
46.0403	CONSTRUCTION INSPECTION	860.261-010	CARPENTER INSPECTOR	4	2	3	TWO TO FOUR YEARS
46.0502	PIPEFITTING AND STEAMFITTING	862.381-038	THREAD INSPECTOR	4	3	3	ONE TO TWO YEARS
47.0102	BUSINESS MACHINE REPAIR	706.381-022	INSPECTOR, TYPEWRITER ASSEMBLY AND	3	3	3	ONE TO TWO YEARS
		706.384-010	INSPECTOR-ADJUSTER, OFFICE-MACHINE	3	2	3	30 TO 90 DAYS
47.0103	COMMUNICATION ELECTRONICS	726.281-014	ELECTRONICS TESTER 1	4	4	3	TWO TO FOUR YEARS
		726.381-010	ELECTRONICS INSPECTOR 1	4	4	4	ONE TO TWO YEARS
		822.261-014	EQUIPMENT INSPECTOR	4	4	3	FOUR TO TEN YEARS
		822.261-026	TESTING-AND-REGULATING TECHNICIAN	4	3	3	TWO TO FOUR YEARS
		822.361-030	TROUBLE LOCATOR, TEST DESK	4	2	3	ONE TO TWO YEARS
47.0104	COMPUTER ELECTRONICS	726.281-014	ELECTRONICS TESTER 1	4	4	3	TWO TO FOUR YEARS
		726.381-010	ELECTRONICS INSPECTOR 1	4	4	4	ONE TO TWO YEARS
47.0105	INDUSTRIAL ELECTRONICS	706.384-010	INSPECTOR-ADJUSTER, OFFICE-MACHINE	3	2	3	30 TO 90 DAYS
		721.261-014	FINAL TESTER	4	3	3	TWO TO FOUR YEARS
		721.281-030	TESTER, MOTORS AND CONTROLS	4	3	3	ONE TO TWO YEARS
		721.361-010	INSPECTOR, MOTORS AND GENERATORS	4	3	3	TWO TO FOUR YEARS
		724.281-010	TRANSFORMER TESTER	4	3	3	TWO TO FOUR YEARS
		726.281-014	ELECTRONICS TESTER 1	4	4	2	TWO TO FOUR YEARS
		726.381-010	ELECTRONICS INSPECTOR 1	4	4	4	ONE TO TWO YEARS
		827.381-010	CONTROL-PANEL TESTER	4	4	3	TWO TO FOUR YEARS
		829.361-018	CIRCULATING PROCESS INSPECTOR	3	3	3	ONE TO TWO YEARS
47.0107	MOTOR REPAIR	721.261-014	FINAL TESTER	4	3	3	TWO TO FOUR YEARS
		721.281-030	TESTER, MOTORS AND CONTROLS	4	3	3	ONE TO TWO YEARS
		721.361-010	INSPECTOR, MOTORS AND GENERATORS	4	3	3	TWO TO FOUR YEARS
		724.281-010	TRANSFORMER TESTER	4	3	3	TWO TO FOUR YEARS

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OCCUPATION: 6881 PRECISION INSPECTORS, TESTERS, AND GRADERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0109	VENDING AND RECREATIONAL MACHINE REPAIR	729.381-014	PIN-GAME-MACHINE INSPECTOR	4 2 3	SIX TO 12 MONTHS
47.0203	HEATING AND AIR CONDITIONING	827.361-010	AIR-CONDITIONING-UNIT TESTER	3 2 2	ONE TO TWO YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	549.261-010	MECHANICAL INSPECTOR	4 3 3	TWO TO FOUR YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.281-010	ASSEMBLER AND TESTER, ELECTRONICS	4 3 3	ONE TO TWO YEARS
		710.281-014	ELECTRICAL INSPECTOR	4 4 4	ONE TO TWO YEARS
		710.381-018	ELECTROMECHANICAL INSPECTOR	4 3 4	TWO TO FOUR YEARS
		710.381-034	INSPECTOR	4 3 3	ONE TO TWO YEARS
		710.381-038	INSPECTOR, MECHANICAL AND ELECTRICAL	4 3 3	TWO TO FOUR YEARS
47.0402	GUNSMITHING	710.381-046	TESTER, ELECTRONIC SCALE	3 2 2	ONE TO TWO YEARS
		632.381-014	INSPECTOR, FIREARMS	4 3 3	ONE TO TWO YEARS
47.0404	MUSICAL INSTRUMENT REPAIR	736.281-010	GUN EXAMINER	4 3 3	ONE TO TWO YEARS
		730.281-018	ELECTRIC-ORGAN INSPECTOR AND REPAIR	4 3 4	ONE TO TWO YEARS
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	714.381-014	INSPECTOR, PHOTOGRAPHIC EQUIPMENT	4 3 3	ONE TO TWO YEARS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.391-014	BOWLING-BALL GRADER AND MARKER	3 2 2	ONE TO TWO YEARS
47.0408	WATCH REPAIR	715.261-010	MECHANICAL TECHNICIAN, LABORATORY	4 4 4	TWO TO FOUR YEARS
		715.381-030	BARREL-ENDSHAKE ADJUSTER	3 2 2	ONE TO TWO YEARS
		715.381-050	FINAL INSPECTOR	4 3 3	TWO TO FOUR YEARS
		715.381-066	INSPECTOR, HAIRSPRING 1	3 2 2	ONE TO TWO YEARS
		715.381-070	INSPECTOR, WATCH ASSEMBLY	3 2 2	ONE TO TWO YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	715.381-074	INSPECTOR, WATCH TRAIN	4 2 3	TWO TO FOUR YEARS
		729.281-038	RELAY TESTER	4 3 4	TWO TO FOUR YEARS
		820.361-018	REGULATOR INSPECTOR	4 4 3	TWO TO FOUR YEARS
		821.381-010	ELECTRIC-METER TESTER	4 4 3	TWO TO FOUR YEARS
		829.261-010	COMPLAINT INSPECTOR	4 3 3	TWO TO FOUR YEARS
47.0603	AUTOMOTIVE BODY REPAIR	952.261-010	SUBSTATION INSPECTOR	4 3 3	TWO TO FOUR YEARS
		952.381-010	SWITCH INSPECTOR	3 2 3	SIX TO 12 MONTHS
		620.261-018	AUTOMOBILE-REPAIR-SERVICE ESTIMATOR	4 3 3	TWO TO FOUR YEARS
47.0604	AUTOMOTIVE MECHANICS	620.261-014	AUTOMOBILE TESTER	4 3 3	TWO TO FOUR YEARS
		620.261-018	AUTOMOBILE-REPAIR-SERVICE ESTIMATOR	4 3 3	TWO TO FOUR YEARS
		620.281-014	AUTOMOTIVE TECHNICIAN, EXHAUST EMIS	4 2 3	TWO TO FOUR YEARS

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OCCUPATION: 6881 PRECISION INSPECTORS, TESTERS, AND GRADERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		620.281-030	BUS INSPECTOR	4 4 4	TWO TO FOUR YEARS
		806.261-010	INTERNAL-COMBUSTION-ENGINE INSPECTOR	4 3 4	TWO TO FOUR YEARS
47.0605	DIESEL ENGINE MECHANICS	625.261-010	DIESEL-ENGINE TESTER	4 3 3	TWO TO FOUR YEARS
47.0606	SMALL ENGINE REPAIR	806.281-018	FINAL INSPECTOR, MOTORCYCLES	4 2 2	TWO TO FOUR YEARS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*621.261-010	AIRPLANE INSPECTOR	4 4 4	FOUR TO TEN YEARS
		*722.381-014	INSTRUMENT INSPECTOR	4 3 3	TWO TO FOUR YEARS
		*806.281-054	TESTER, PLUMBING SYSTEMS	4 2 2	ONE TO TWO YEARS
		*825.381-026	ELECTRICAL INSPECTOR	4 4 4	TWO TO FOUR YEARS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	*621.261-010	AIRPLANE INSPECTOR	4 4 4	FOUR TO TEN YEARS
		722.381-014	INSTRUMENT INSPECTOR	4 3 3	TWO TO FOUR YEARS
		806.281-054	TESTER, PLUMBING SYSTEMS	4 2 2	ONE TO TWO YEARS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	979.381-014	LINE-UP EXAMINER	3 2 2	FOUR TO TEN YEARS
48.0501	PRECISION METAL WORK, GENERAL	619.381-014	EDDY-CURRENT INSPECTOR	3 2 3	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	600.281-014	LAY-OUT INSPECTOR	4 4 3	ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.281-010	HEAT-TREAT INSPECTOR	4 3 3	TWO TO FOUR YEARS
		600.281-014	LAY-OUT INSPECTOR	4 4 3	ONE TO TWO YEARS
		601.281-018	INSPECTOR, GAGE AND INSTRUMENT	4 4 3	TWO TO FOUR YEARS
		609.361-010	INSPECTOR, FLOOR	3 3 3	ONE TO TWO YEARS
		715.261-010	MECHANICAL TECHNICIAN, LABORATORY	4 4 4	TWO TO FOUR YEARS
48.0504	METAL FABRICATION	619.261-010	INSPECTOR, METAL FABRICATING	4 4 4	TWO TO FOUR YEARS
		806.361-018	FINAL INSPECTOR, TRUCK TRAILER	4 3 4	FOUR TO TEN YEARS
48.0507	TOOL AND DIE MAKING	601.281-018	INSPECTOR, GAGE AND INSTRUMENT	4 4 3	TWO TO FOUR YEARS
		601.281-022	INSPECTOR, TOOL	4 3 3	FOUR TO TEN YEARS
48.0508	WELDING	819.281-018	WELD INSPECTOR 1	4 4 3	TWO TO FOUR YEARS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	572.360-010	FURNACE-COMBUSTION ANALYST	4 3 3	ONE TO TWO YEARS
48.0604	PLASTICS	559.381-010	INSPECTOR	3 3 3	SIX TO 12 MONTHS
49.0306	MARINE MAINTENANCE	869.281-018	YARD INSPECTOR	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 6882

PRECISION ADJUSTERS AND CALIBRATORS

These workers assemble and adjust precision instruments such as scales, time pieces, gun sights, and control devices. For example, some test, and adjust weighing scales and other devices to make sure they are accurate. Some repair or assemble watch or clock parts. Some attach sights to guns. Some adjust or repair electrical relays and switches. They often work from blueprints or sketches and may test, repair, replace, clean, or adjust parts. They use precision measuring devices, and tools and may use soldering equipment, magnifiers, or grinders.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	851.362-010	SEWER-LINE PHOTO-INSPECTOR	3 2 2	SIX TO 12 MONTHS
47.0105	INDUSTRIAL ELECTRONICS	724.381-010	ADJUSTER, ELECTRICAL CONTACTS	3 2 2	ONE TO TWO YEARS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.381-014	BALANCER, SCALE	4 2 2	ONE TO TWO YEARS
47.0402	GUNSMITHING	736.381-014	FITTER, VENTILATED RIB	3 2 2	SIX TO 12 MONTHS
		736.481-010	SIGHT MOUNTER	3 3 2	SIX TO 12 MONTHS
47.0408	WATCH REPAIR	715.381-010	ASSEMBLER	4 2 3	TWO TO FOUR YEARS
		715.381-014	ASSEMBLER, WATCH TRAIN	4 2 2	ONE TO TWO YEARS
		715.381-018	BANKING PIN ADJUSTER	3 2 2	SIX TO 12 MONTHS
		715.381-022	BARREL ASSEMBLER	3 2 2	ONE TO TWO YEARS
		715.381-026	BARREL-BRIDGE ASSEMBLER	3 2 2	SIX TO 12 MONTHS
		715.381-038	CHRONOMETER ASSEMBLER AND ADJUSTER	4 3 3	TWO TO FOUR YEARS
		715.381-042	CHRONOMETER-BALANCE-AND-HAIRSPRING	3 2 2	ONE TO TWO YEARS
		715.381-046	DIAL MAKER	3 2 2	ONE TO TWO YEARS
		715.381-054	HAIRSPRING ASSEMBLER	3 1 2	SIX TO 12 MONTHS
		715.381-062	HAIRSPRING VIBRATOR	3 2 2	ONE TO TWO YEARS
		715.381-094	WATCH ASSEMBLER	4 3 3	ONE TO TWO YEARS
		715.681-010	TIMING ADJUSTER	3 2 2	ONE TO TWO YEARS

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OCCUPATION: 6900

PLANT AND SYSTEM OPERATORS

These workers operate and maintain equipment and machinery that provides power for industrial operations as well as for heating, cooling, and ventilating buildings. Some workers operate equipment or systems used to generate and distribute electrical power. They may assemble, adjust, or repair equipment. They observe equipment operations and keep records. They may run boilers, turbines, generators, pumps, condensers, or motors.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 6910

WATER AND SEWAGE TREATMENT PLANT OPERATORS

These people operate equipment in water or sewage treatment plants to remove harmful waste from water or to make wastewater harmless. They operate pumps, pipes, valves, and processing equipment to move wastewater from sewage pipes through various treatment processes. They read and interpret meters and gauges to be sure equipment is working properly. They also operate chemical-feeding devices, test water samples, and keep records of their work. They use common handtools and special tools to repair and adjust plant equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M I	TRAINING TIME
15.0506 WATER AND WASTEWATER TECHNOLOGY	955.222-010 INSTRUCTOR, WASTEWATER-TREATMENT PL	4 3 3	ONE TO TWO YEARS
	955.362-010 WASTEWATER-TREATMENT-PLANT OPERATOR	4 4 3	ONE TO TWO YEARS
41.0201 NUCLEAR MATERIALS HANDLING TECHNOLOGY	955.167-010 DISPATCHER, RADIOACTIVE-WASTE-DISPO	4 4 4	TWO TO FOUR YEARS
	955.382-014 WASTE-TREATMENT OPERATOR	4 4 4	ONE TO TWO YEARS
47.0504 PUMPING PLANTS	954.382-010 PUMP-STATION OPERATOR, WATERWORKS	3 2 3	SIX TO 12 MONTHS
	954.382-014 WATER-TREATMENT-PLANT OPERATOR	3 3 3	SIX TO 12 MONTHS
	955.362-010 WASTEWATER-TREATMENT-PLANT OPERATOR	4 4 3	ONE TO TWO YEARS
	955.382-010 CLARIFYING-PLANT OPERATOR	3 2 2	THREE TO SIX MONTHS
	955.585-010 WASTEWATER-TREATMENT-PLANT ATTENDAN	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 6920

GAS PLANT OPERATORS

GAS PLANT OPERATORS adjust and control equipment used to process and distribute natural gas. They turn valves to adjust the flow of natural gas through scrubbers that remove harmful gases and water. They also control compressors and cooling units that turn gas to liquid form and move it to storage tanks. Some control the flow of gas into distribution lines that service homes and businesses. These workers use test equipment, handtools, and measuring devices. They also keep daily records of gauge and meter readings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0504	PUMPING PLANTS	559.362-018	LIQUEFACTION-PLANT OPERATOR	3 3 2	THREE TO SIX MONTHS
		953.362-010	FUEL ATTENDANT	3 2 2	SIX TO 12 MONTHS
		953.362-014	LIQUEFACTION-AND-REGASIFICATION-PLA	4 3 3	TWO TO FOUR YEARS
		953.362-018	PRESSURE CONTROLLER	3 3 3	TWO TO FOUR YEARS

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OCCUPATION: 6930

POWER PLANT OPERATORS

These workers operate equipment that produces power for machinery, heating and ventilating systems, and various kinds of electrical power systems. They control motors, generators, pumps, diesel engines, condensers, and turbines. They may assemble, adjust, maintain, and repair machinery. They watch power-generating machinery in operation, watch safety controls, and check meters and gauges. They record instrument and meter readings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 6931

STATIONARY ENGINEERS

STATIONARY ENGINEERS operate and maintain the machinery that provides power for industry and heating, cooling, and ventilation in factories and other buildings. This machinery includes steam boilers, diesel engines, turbines, generators, pumps, and condensers. They start and stop equipment, watch meters and gauges, and adjust equipment when necessary. They also carefully watch over machinery safety controls and keep records of meter readings. They often use hand or power tools to make minor repairs to machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
15.0403	ELECTROMECHANICAL TECHNOLOGY	950.382-026	STATIONARY ENGINEER	4	4	3	TWO TO FOUR YEARS
		950.382-030	STATIONARY-ENGINEER APPRENTICE	4	4	3	TWO TO FOUR YEARS
15.0501	AIR CONDITIONING, HEATING, AND REFRIGERA	950.362-014	REFRIGERATING ENGINEER	4	3	3	TWO TO FOUR YEARS
		950.382-026	STATIONARY ENGINEER	4	4	3	TWO TO FOUR YEARS
		950.382-030	STATIONARY-ENGINEER APPRENTICE	4	4	3	TWO TO FOUR YEARS
41.0201	NUCLEAR MATERIALS HANDLING TECHNOLOGY	950.562-010	PANELBOARD OPERATOR	4	4	4	TWO TO FOUR YEARS
41.0203	NUCLEAR POWER PLANT RADIATION CONTROL TE	950.562-010	PANELBOARD OPERATOR	4	4	4	TWO TO FOUR YEARS
47.0202	COOLING AND REFRIGERATION	950.362-014	REFRIGERATING ENGINEER	4	3	3	TWO TO FOUR YEARS
47.0203	HEATING AND AIR CONDITIONING	950.382-010	BOILER OPERATOR	4	3	3	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	950.382-018	GAS-ENGINE OPERATOR	3	2	2	ONE TO TWO YEARS
		950.382-026	STATIONARY ENGINEER	4	4	3	TWO TO FOUR YEARS
		950.382-030	STATIONARY-ENGINEER APPRENTICE	4	4	3	TWO TO FOUR YEARS

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OCCUPATION: 6932

POWER PLANT SYSTEMS OPERATORS, EXCEPT STATIONARY ENGINEERS

These people operate equipment used to generate and distribute electrical power. They control motors, generators, pumps, and other equipment that furnish power for machinery or for electric power systems. They also may assemble, repair, adjust, and maintain the equipment. They read gauges and other dial indicators and operate control panel switches to regulate the flow the power. They also keep records of instrument readings and power system operations. Some supervise or direct other power plant workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	952.362-010	AUXILIARY-EQUIPMENT OPERATOR	3 2 3	SIX TO 12 MONTHS
		952.362-042	TURBINE OPERATOR	4 3 3	TWO TO FOUR YEARS
41.0202	NUCLEAR POWER PLANT OPERATION TECHNOLOGY	952.362-022	POWER-REACTOR OPERATOR	4 3 3	TWO TO FOUR YEARS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	950.382-022	ROTARY-RIG ENGINE OPERATOR	4 3 3	TWO TO FOUR YEARS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	820.662-010	MOTOR-ROOM CONTROLLER	4 4 3	FOUR TO TEN YEARS
		950.382-022	ROTARY-RIG ENGINE OPERATOR	4 3 3	TWO TO FOUR YEARS
		952.167-014	LOAD DISPATCHER	4 3 3	FOUR TO TEN YEARS
		952.362-010	AUXILIARY-EQUIPMENT OPERATOR	3 2 3	SIX TO 12 MONTHS
		952.362-014	FEEDER-SWITCHBOARD OPERATOR	3 2 2	ONE TO TWO YEARS
		952.362-018	HYDROELECTRIC-STATION OPERATOR	4 3 3	TWO TO FOUR YEARS
		952.362-026	SUBSTATION OPERATOR	4 3 3	TWO TO FOUR YEARS
		952.362-030	SUBSTATION OPERATOR APPRENTICE	4 3 3	TWO TO FOUR YEARS
		952.362-034	SWITCHBOARD OPERATOR	4 3 3	TWO TO FOUR YEARS
		952.362-038	SWITCHBOARD OPERATOR	4 3 3	TWO TO FOUR YEARS
		952.362-042	TURBINE OPERATOR	4 3 3	TWO TO FOUR YEARS
		952.382-010	DIESEL-PLANT OPERATOR	4 3 3	ONE TO TWO YEARS
		952.382-014	POWER OPERATOR	3 3 2	TWO TO FOUR YEARS
		952.382-018	POWER-PLANT OPERATOR	4 4 4	FOUR TO TEN YEARS
47.0504	PUMPING PLANTS	952.362-010	AUXILIARY-EQUIPMENT OPERATOR	3 2 3	SIX TO 12 MONTHS

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OCCUPATION: 6940

CHEMICAL PLANT OPERATORS

These workers operate equipment to process chemicals. They set controls on automatic equipment to regulate the temperature, pressure, and amounts of materials used, as chemicals are processed. They read instruments that measure pressure, flow of materials, and other information. They use instruments to test chemicals and may send chemical samples to a lab for testing. They keep records of instrument readings and test results and report equipment breakdowns.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	558.260-010	CHIEF OPERATOR	4 3 3	TWO TO FOUR YEARS
		559.362-034	TOWER OPERATOR	3 3 3	THREE TO SIX MONTHS
		559.382-010	AMMONIA-STILL OPERATOR	3 3 2	SIX TO 12 MONTHS
		559.382-038	NAPHTHA-WASHING-SYSTEM OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.382-042	PHARMACEUTICAL OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.662-014	WASH OPERATOR	3 3 2	SIX TO 12 MONTHS
41.0301	CHEMICAL TECHNOLOGY	558.260-010	CHIEF OPERATOR	4 3 3	TWO TO FOUR YEARS
48.0502	FOUNDRY WORK	511.482-010	CONTROL OPERATOR	3 2 3	SIX TO 12 MONTHS

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OCCUPATION: 6950

PETROLEUM PLANT OPERATORS

PETROLEUM PLANT OPERATORS are responsible for one or more processing units in a petroleum plant. They control the temperature, pressure, and flow of oil in the units. They watch instrument panels that show the entire operation of all processing units in the plant, and maintain and operate pumps that control production. They measure the amount of oil in storage trucks before and after deliveries. They also test oil samples for water or other impurities, and check the flow rate of oil into or out of the tanks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	542.362-014	REFINERY OPERATOR HELPER	3 2 2 ONE TO TWO YEARS
		546.382-010	CONTROL-PANEL OPERATOR	3 3 2 TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	549.260-010	REFINERY OPERATOR	4 3 3 FOUR TO TEN YEARS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	914.384-010	GAGER	3 3 3 ONE TO TWO YEARS
47.0504	PUMPING PLANTS	549.260-010	REFINERY OPERATOR	4 3 3 FOUR TO TEN YEARS
		549.360-010	PUMPER	4 3 3 ONE TO TWO YEARS
		549.684-010	PUMPER HELPER	2 2 2 30 TO 90 DAYS
		914.384-010	GAGER	3 3 3 ONE TO TWO YEARS

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OCCUPATION: 6960

PLANT OR SYSTEM OPERATORS, MISCELLANEOUS

These people control equipment used to process products, such as chemicals, concrete and asphalt, glass, lime, steel, water, or coal. They generally work at a control board where they watch gauges, dials, and machine operations. They adjust panel controls to regulate machine processes. They also watch for signals that indicate processing stages or problems. They may patrol work areas to observe materials being processed or to collect samples for testing. They may help adjust and maintain the equipment. They also record meter readings and may keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	552.362-018	RECOVERY OPERATOR	4	3	3	SIX TO 12 MONTHS
		559.362-026	PLANT OPERATOR, FURNACE PROCESS	3	2	3	SIX TO 12 MONTHS
		570.682-014	PLANT OPERATOR	3	2	2	THREE TO SIX MONTHS
		573.462-010	LIME-KILN OPERATOR	3	2	1	SIX TO 12 MONTHS
		590.362-010	FORMING-PROCESS WORKER	3	3	3	SIX TO 12 MONTHS
		613.662-010	ROLLING ATTENDANT	4	3	3	ONE TO TWO YEARS
		709.684-094	UTILITY OPERATOR 2	3	2	2	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	951.685-010	FIRER, HIGH PRESSURE	3	2	3	SIX TO 12 MONTHS
47.0504	PUMPING PLANTS	914.362-010	COAL-PIPE-LINE OPERATOR	3	3	3	THREE TO SIX MONTHS
		954.382-018	WATERSHED TENDER	3	2	2	SIX TO 12 MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	572.382-010	BATCH-AND-FURNACE OPERATOR	4	3	3	TWO TO FOUR YEARS
49.0204	MINING EQUIPMENT OPERATION	932.664-014	SPOUT TENDER	2	1	2	UP TO 30 DAYS
		934.685-014	SAND PLANT ATTENDANT	2	2	1	UP TO 30 DAYS
		939.362-014	PANELBOARD OPERATOR	4	3	3	SIX TO 12 MONTHS

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OCCUPATION: 7099

PRODUCTION WORKING OCCUPATIONS

These workers produce manufactured goods. They may set up and/or operate machines that mold, shape, or assemble articles made of metal, wood, glass, plastic, or fibers. They may perform such jobs as welding or assembly operations by hand or machine. They may run knitting machines, wood lathes, printing presses, or electroplating machines. Other workers inspect or test products, expedite work, or sort and grade products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7100

SUPERVISORS: PRODUCTION OCCUPATIONS

These people supervise workers who set up, operate, and tend machines in factories, plants, or businesses. They may also supervise workers involved in hand production work. They study production schedules and determine the workers, equipment, assign duties, and materials needed to meet them. They interpret company policies and job orders to workers, and help solve difficult work problems. They inspect work for quality, and may hire, train, and discharge workers. They may also keep worker and production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
09.0000	NO CIP ASSIGNED	183.161-010	SUPERVISOR, INSPECTION	4 4 4	ONE TO TWO YEARS
		299.137-018	SAMPLE-ROOM SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		500.131-010	SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		500.132-010	SUPERVISOR, SHEET MANUFACTURING	4 3 3	TWO TO FOUR YEARS
		500.134-010	SUPERVISOR, MATRIX	4 3 3	ONE TO TWO YEARS
		501.130-010	SUPERVISOR, HOT-DIP-TINNING	4 3 4	FOUR TO TEN YEARS
		501.137-010	SUPERVISOR, HOT-DIP PLATING	4 3 4	TWO TO FOUR YEARS
		503.137-010	SUPERVISOR, SANDBLASTER	4 3 3	TWO TO FOUR YEARS
		511.132-010	PRECIPITATOR SUPERVISOR	3 2 2	SIX TO 12 MONTHS
		512.130-010	REDUCTION-PLANT SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		515.130-010	MILL SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		515.132-010	CRUSHER SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		520.132-010	BLENDING SUPERVISOR	4 3 3	ONE TO TWO YEARS
		520.132-014	SUPERVISOR, COMPRESSED YEAST	4 3 3	TWO TO FOUR YEARS
		520.136-010	BLENDING SUPERVISOR	4 3 3	SIX TO 12 MONTHS
		520.137-010	SUPERVISOR, LUMP ROOM	4 3 2	TWO TO FOUR YEARS
		521.130-010	MILLER SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		521.130-014	SUPERVISOR, POWDERED SUGAR	4 3 3	TWO TO FOUR YEARS
		521.131-010	SUPERVISOR, RICE MILLING	4 2 3	ONE TO TWO YEARS
		521.132-010	MILL PLATFORM SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		521.132-014	SUPERVISOR, THRESHING DEPARTMENT	4 2 3	SIX TO 12 MONTHS
		521.137-010	SUPERVISOR, PICKING	4 3 3	TWO TO FOUR YEARS
		522.130-010	SUPERVISOR, MELT HOUSE	4 3 3	TWO TO FOUR YEARS
		522.131-010	DISTILLING-DEPARTMENT SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		522.132-010	SUPERVISOR, MALT HOUSE	4 3 4	TWO TO FOUR YEARS
		523.132-010	SUPERVISOR, CHAR HOUSE	4 3 3	TWO TO FOUR YEARS
		523.137-010	SUPERVISOR, ICE HOUSE	4 2 2	TWO TO FOUR YEARS
		525.134-010	SUPERVISOR, FISH PROCESSING	4 2 2	TWO TO FOUR YEARS
		529.130-014	SUPERVISOR, CHOCOLATE-AND-COCOA PRO	4 3 3	FOUR TO TEN YEARS
		529.130-018	SUPERVISOR, COFFEE	4 2 3	TWO TO FOUR YEARS
		529.130-022	SUPERVISOR, FILTRATION	4 2 3	TWO TO FOUR YEARS
		529.130-026	SUPERVISOR, NUT PROCESSING	4 2 3	TWO TO FOUR YEARS
		529.130-030	SUPERVISOR, PULP HOUSE	4 2 3	TWO TO FOUR YEARS
		529.130-034	SUPERVISOR, REFINING	4 2 3	TWO TO FOUR YEARS

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OCCUPATION: 7100 SUPERVISORS; PRODUCTION OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		529.130-038	SUPERVISOR, SOFT SUGAR	4	2	3	TWO TO FOUR YEARS
		529.130-042	SUPERVISOR, WHITE SUGAR	4	2	3	TWO TO FOUR YEARS
		529.131-010	CELLAR SUPERVISOR	4	2	3	FOUR TO TEN YEARS
		529.132-010	CUSTOM-FEED-MILL OPERATOR	4	2	3	TWO TO FOUR YEARS
		529.132-014	PLANT SUPERVISOR	4	2	3	TWO TO FOUR YEARS
		529.132-018	SUPERVISOR, BEET END	4	3	3	TWO TO FOUR YEARS
		529.132-022	SUPERVISOR, BOTTLE-HOUSE CLEANERS	4	3	3	TWO TO FOUR YEARS
		529.132-026	SUPERVISOR, BREW HOUSE	4	2	3	FOUR TO TEN YEARS
		529.132-030	SUPERVISOR, CEREAL	4	2	4	TWO TO FOUR YEARS
		529.132-034	SUPERVISOR, CIGAR-MAKING MACHINE	4	2	3	TWO TO FOUR YEARS
		529.132-038	SUPERVISOR, COOK ROOM	4	2	3	TWO TO FOUR YEARS
		529.132-042	SUPERVISOR, DRIED YEAST	4	3	4	TWO TO FOUR YEARS
		529.132-046	SUPERVISOR, DRY-STARCH	4	2	3	TWO TO FOUR YEARS
		529.132-050	SUPERVISOR, FEED HOUSE	4	2	3	FOUR TO TEN YEARS
		529.132-054	SUPERVISOR, FEED MILL	3	3	3	TWO TO FOUR YEARS
		529.132-058	SUPERVISOR, FERMENTING CELLARS	4	2	3	TWO TO FOUR YEARS
		529.132-062	SUPERVISOR, GRAIN AND YEAST PLANTS	4	3	3	TWO TO FOUR YEARS
		529.132-066	SUPERVISOR, LIQUID YEAST	4	3	3	TWO TO FOUR YEARS
		529.132-074	SUPERVISOR, MILL HOUSE	4	3	3	TWO TO FOUR YEARS
		529.132-078	SUPERVISOR, NUTRITIONAL YEAST	4	3	4	TWO TO FOUR YEARS
		529.132-082	SUPERVISOR, SOAKERS	4	2	3	ONE TO TWO YEARS
		529.132-086	SUPERVISOR, STEFFEN HOUSE	4	3	3	FOUR TO TEN YEARS
		529.132-090	SUPERVISOR, SUGAR HOUSE	4	2	3	FOUR TO TEN YEARS
		529.132-094	SUPERVISOR, SUGAR REFINERY	4	2	3	FOUR TO TEN YEARS
		529.132-098	SUPERVISOR, TANK STORAGE	4	2	3	FOUR TO TEN YEARS
		529.132-102	SUPERVISOR, TEA AND SPICE	4	3	3	TWO TO FOUR YEARS
		529.132-106	SUPERVISOR, WASH HOUSE	4	2	3	TWO TO FOUR YEARS
		529.135-010	COOKING, CASING, AND DRYING SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		529.137-010	PREPARATION SUPERVISOR	4	2	3	TWO TO FOUR YEARS
		529.137-018	SUGAR-REPROCESS OPERATOR, HEAD	3	2	?	ONE TO TWO YEARS
		529.137-026	SUPERVISOR	4	2	3	TWO TO FOUR YEARS
		529.137-030	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		529.137-034	SUPERVISOR, CIGAR TOBACCO PROCESSING	4	2	2	ONE TO TWO YEARS
		529.137-038	SUPERVISOR, CURING ROOM	4	3	3	TWO TO FOUR YEARS
		529.137-050	SUPERVISOR, MAPLE PRODUCTS	4	3	3	ONE TO TWO YEARS
		529.137-054	SUPERVISOR, READY-MIXED FOOD PREPARATION	4	3	3	SIX TO 12 MONTHS
		529.137-058	SUPERVISOR, SIRUP SHED	4	3	3	ONE TO TWO YEARS
		529.137-070	SUPERVISOR, YARD	4	2	2	FOUR TO TEN YEARS
		530.132-010	COATING-MIXER SUPERVISOR	4	3	4	TWO TO FOUR YEARS
		530.132-014	SUPERVISOR, BEATER ROOM	4	4	4	TWO TO FOUR YEARS
		530.132-018	SUPERVISOR, WOOD ROOM	4	3	4	TWO TO FOUR YEARS
		530.132-022	WOOD GRINDER, HEAD	4	2	3	ONE TO TWO YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7100 SUPERVISORS; PRODUCTION OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R M I	TRAINING TIME
		534.130-010	SUPERVISOR, COATING	4 3 3	TWO TO FOUR YEARS
		534.132-010	SUPERVISOR, CALENDERING	4 3 4	FOUR TO TEN YEARS
		534.132-014	SUPERVISOR, PAPER COATING	4 3 4	FOUR TO TEN YEARS
		534.137-010	SUPERVISOR, CARBON-PAPER-COATING	4 3 4	TWO TO FOUR YEARS
		539.130-010	SUPERVISOR, HARDBOARD	4 3 4	TWO TO FOUR YEARS
		539.130-014	SUPERVISOR, WET ROOM	4 4 3	FOUR TO TEN YEARS
		539.131-010	SUPERVISOR, WET END	4 3 3	TWO TO FOUR YEARS
		539.132-010	SUPERVISOR, PAPER MACHINE	4 3 3	TWO TO FOUR YEARS
		539.132-014	SUPERVISOR, PULP PLANT	4 3 3	TWO TO FOUR YEARS
		539.132-018	SUPERVISOR, REPULPING	4 3 4	FOUR TO TEN YEARS
		539.134-010	SUPERVISOR, PAPER TESTING	4 4 4	FOUR TO TEN YEARS
		539.137-010	SUPERVISOR, RAG ROOM	3 3 3	SIX TO 12 MONTHS
		542.130-014	SUPERVISOR, TAR DISTILLATION	4 3 4	TWO TO FOUR YEARS
		542.132-010	SUPERVISOR, BYPRODUCTS	4 3 4	TWO TO FOUR YEARS
		542.132-014	SUPERVISOR, OVENS	4 3 4	FOUR TO TEN YEARS
		549.132-014	SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		549.132-018	SUPERVISOR, COAL HANDLING	4 3 3	TWO TO FOUR YEARS
		549.132-022	SUPERVISOR, COKE HANDLING	4 3 3	FOUR TO TEN YEARS
		549.132-026	SUPERVISOR, PASTE PLANT	4 3 4	TWO TO FOUR YEARS
		549.137-010	SUPERVISOR, CARBON ELECTRODES	4 3 4	ONE TO TWO YEARS
		550.131-010	COSMETICS SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		550.132-010	SUPERVISOR	4 2 3	ONE TO TWO YEARS
		550.132-014	SUPERVISOR, FISH BAIT PROCESSING	4 2 3	TWO TO FOUR YEARS
		550.135-010	SUPERVISOR, COLOR-PASTE MIXING	4 3 3	TWO TO FOUR YEARS
		550.137-010	SUPERVISOR, COMPOUNDING-AND-FINISH	4 3 3	FOUR TO TEN YEARS
		550.137-014	SUPERVISOR, PASTE MIXING	4 3 3	ONE TO TWO YEARS
		550.137-018	SUPERVISOR, SHIPPING	4 2 3	TWO TO FOUR YEARS
		551.130-010	SUPERVISOR, PROCESSING	4 3 3	TWO TO FOUR YEARS
		552.132-010	SHIFT SUPERINTENDENT, CAUSTIC CRESY	4 3 3	FOUR TO TEN YEARS
		553.132-010	SUPERVISOR, GREASE REFINING	4 3 3	TWO TO FOUR YEARS
		554.137-010	FINISHING SUPERVISOR, PLASTIC SHEET	3 2 2	ONE TO TWO YEARS
		554.137-014	SUPERVISOR, COATING	4 3 3	TWO TO FOUR YEARS
		556.130-014	SUPERVISOR, PLASTICS	4 3 3	TWO TO FOUR YEARS
		557.130-010	SUPERVISOR, EXTRUDING DEPARTMENT	4 3 3	FOUR TO TEN YEARS
		557.130-014	SUPERVISOR, PLASTIC SHEETS	4 3 3	TWO TO FOUR YEARS
		558.130-010	SUPERVISOR, PHOSPHATIC FERTILIZER	4 3 3	FOUR TO TEN YEARS
		558.132-010	SUPERVISOR, CHEMICAL	4 3 3	TWO TO FOUR YEARS
		558.132-014	SUPERVISOR, PHOSPHORIC ACID	4 3 4	FOUR TO TEN YEARS
		558.134-010	SUPERVISOR, BRINE	4 3 3	TWO TO FOUR YEARS
		558.134-014	SUPERVISOR, CELL ROOM	4 3 3	TWO TO FOUR YEARS
		558.134-018	SUPERVISOR, CELL-EFFICIENCY	4 3 4	TWO TO FOUR YEARS
		558.134-022	SUPERVISOR, HYDROCHLORIC AREA	4 3 3	TWO TO FOUR YEARS

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OCCUPATION: 7100 SUPERVISORS; PRODUCTION OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
559.130-010	CHEMICAL-PROCESSING SUPERVISOR	4	3	3	FOUR TO TEN YEARS	
559.130-014	SUPERVISOR, FERTILIZER PROCESSING	4	3	3	TWO TO FOUR YEARS	
559.130-018	SUPERVISOR, RECORD PRESS	4	3	3	TWO TO FOUR YEARS	
559.130-022	SUPERVISOR, TILE-AND-MOTTLE	4	3	3	ONE TO TWO YEARS	
559.131-010	PHARMACEUTICAL-COMPOUNDING SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.131-018	TNT-LINE SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.132-010	ACID SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.132-030	HEATING-AND-BLENDING SUPERVISOR	4	2	3	FOUR TO TEN YEARS	
559.132-034	MILL SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.132-038	NITROGLYCERIN SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.132-042	PROCESS-AREA SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.132-046	PRODUCTION SUPERVISOR, ANHYDROUS AM	4	3	3	FOUR TO TEN YEARS	
559.132-050	PRODUCTION SUPERVISOR, DEFLUORINATE	4	3	3	TWO TO FOUR YEARS	
559.132-054	SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.132-058	SUPERVISOR	4	3	3	ONE TO TWO YEARS	
559.132-066	SUPERVISOR, BONE PLANT	4	3	3	FOUR TO TEN YEARS	
559.132-070	SUPERVISOR, CD-AREA	4	3	4	TWO TO FOUR YEARS	
559.132-074	SUPERVISOR, COOK HOUSE	4	3	3	TWO TO FOUR YEARS	
559.132-082	SUPERVISOR, DRY PASTE	4	2	3	TWO TO FOUR YEARS	
559.132-086	SUPERVISOR, ESTERS-AND-EMULSIFIERS	4	3	3	TWO TO FOUR YEARS	
559.132-090	SUPERVISOR, FERTILIZER	4	3	3	ONE TO TWO YEARS	
559.132-094	SUPERVISOR, FURNACE PROCESS	4	3	3	TWO TO FOUR YEARS	
559.132-098	SUPERVISOR, GLYCERIN	4	3	4	TWO TO FOUR YEARS	
559.132-102	SUPERVISOR, INSECTICIDE	4	3	3	TWO TO FOUR YEARS	
559.132-106	SUPERVISOR, LIQUEFACTION	4	3	3	TWO TO FOUR YEARS	
559.132-110	SUPERVISOR, LITHARGE	4	3	3	TWO TO FOUR YEARS	
559.132-114	SUPERVISOR, PAINT	4	3	3	TWO TO FOUR YEARS	
559.132-118	SUPERVISOR, PHOSPHORUS PROCESSING	4	3	3	FOUR TO TEN YEARS	
559.132-122	SUPERVISOR, PIGMENT MAKING	4	3	3	TWO TO FOUR YEARS	
559.132-126	SUPERVISOR, REFINING	4	3	3	TWO TO FOUR YEARS	
559.132-130	SUPERVISOR, TOILET-AND-LAUNDRY SOAP	4	3	3	TWO TO FOUR YEARS	
559.132-134	SUPERVISOR, VARNISH	4	3	3	FOUR TO TEN YEARS	
559.132-138	TRANSFER-AND-PUMPHOUSE OPERATOR, CH	4	3	3	TWO TO FOUR YEARS	
559.137-010	SALVAGE SUPERVISOR	4	3	3	TWO TO FOUR YEARS	
559.137-014	SUPERVISOR 2	4	3	3	TWO TO FOUR YEARS	
559.137-018	SUPERVISOR, BLEACH	4	3	3	TWO TO FOUR YEARS	
559.137-022	SUPERVISOR, CHANNEL PROCESS	4	3	3	TWO TO FOUR YEARS	
559.137-026	SUPERVISOR, EVAPORATOR	4	3	4	TWO TO FOUR YEARS	
559.137-030	SUPERVISOR, GELATIN PLANT	4	3	3	FOUR TO TEN YEARS	
559.137-034	SUPERVISOR, GLUE SPECIALTY	4	3	3	TWO TO FOUR YEARS	
559.137-042	SUPERVISOR, PUTTY AND CAIKING	4	2	2	TWO TO FOUR YEARS	
559.137-046	SUPERVISOR, ROCKET PROPELLANT PLANT	4	3	3	ONE TO TWO YEARS	

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CODE	TITLE	CODE	TITLE	R	M	L	
		559.137-050	SUPERVISOR, TANK CLEANING	4	2	3	ONE TO TWO YEARS
		559.167-010	CD-STORAGE-AND-MATERIALS-MAKE-UP OP	4	3	3	TWO TO FOUR YEARS
		561.131-010	TREATING-PLANT SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		563.135-010	SUPERVISOR, DRYING	4	3	3	ONE TO TWO YEARS
		563.137-010	SUPERVISOR, BEEHIVE KILN	3	3	3	ONE TO TWO YEARS
		564.132-010	WOOD-CREW SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		569.130-010	GASKET SUPERVISOR	4	3	3	ONE TO TWO YEARS
		569.132-010	SUPERVISOR, PARTICLE BOARD	4	3	3	ONE TO TWO YEARS
		569.135-010	SUPERVISOR, VENEER	4	3	3	ONE TO TWO YEARS
		570.132-018	WASHING-AND-SCREENING PLANT SUPERVI	4	3	3	TWO TO FOUR YEARS
		570.137-010	SUPERVISOR	3	2	2	SIX TO 12 MONTHS
		579.130-010	SUPERVISOR, BOARD MILL	4	3	3	FOUR TO TEN YEARS
		579.131-010	SUPERVISOR, MIRROR MANUFACTURING DE	4	3	2	TWO TO FOUR YEARS
		579.132-010	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		579.132-014	SUPERVISOR, LIME	4	3	2	FOUR TO TEN YEARS
		579.137-014	SUPERVISOR, ASBESTOS TEXTILE	4	3	2	TWO TO FOUR YEARS
		579.137-018	SUPERVISOR, MOLD CLEANING AND STORA	3	3	3	ONE TO TWO YEARS
		579.137-022	SUPERVISOR, MOLD-MAKING PLASTICS SH	3	2	2	ONE TO TWO YEARS
		582.130-010	SUPERVISOR, GLAZING DEPARTMENT	4	3	3	TWO TO FOUR YEARS
		582.131-010	DYE-HOUSE SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		582.132-010	AGING-DEPARTMENT SUPERVISOR	4	3	3	ONE TO TWO YEARS
		582.132-014	SOAPING-DEPARTMENT SUPERVISOR	4	3	3	ONE TO TWO YEARS
		582.132-018	SUPERVISOR, TAN ROOM	4	3	3	TWO TO FOUR YEARS
		582.132-022	SUPERVISOR, VAT HOUSE	4	3	3	TWO TO FOUR YEARS
		585.130-010	SUPERVISOR, CORDUROY CUTTING	4	2	3	ONE TO TWO YEARS
		589.130-018	SUPERVISOR, FINISHING ROOM	4	3	3	TWO TO FOUR YEARS
		589.130-022	SUPERVISOR, FUR DRESSING	4	3	3	TWO TO FOUR YEARS
		589.130-026	SUPERVISOR, MILL	4	2	3	TWO TO FOUR YEARS
		589.130-030	SUPERVISOR, SPLIT LEATHER DEPARTMEN	3	2	3	ONE TO TWO YEARS
		589.132-010	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		589.132-014	SUPERVISOR, SPLIT AND DRUM ROOM	4	3	3	TWO TO FOUR YEARS
		589.134-010	SUPERVISOR, BEAM DEPARTMENT	4	3	3	TWO TO FOUR YEARS
		589.135-010	SUPERVISOR, PRODUCTION	4	3	3	TWO TO FOUR YEARS
		589.137-010	SUPERVISOR, PACKING ROOM	4	2	3	TWO TO FOUR YEARS
		590.130-014	SUPERVISOR, INSULATION	4	3	4	FOUR TO TEN YEARS
		590.130-018	SUPERVISOR, ROOFING PLANT	4	3	4	TWO TO FOUR YEARS
		590.131-010	PORCELAIN-ENAMELING SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		590.132-010	SUPERVISOR, CANDIE MAKING	4	3	3	TWO TO FOUR YEARS
		590.134-010	SUPERVISOR, PIPE JOINTS	4	3	4	TWO TO FOUR YEARS
		601.130-010	TOOL-AND-DIE SUPERVISOR	4	4	3	FOUR TO TEN YEARS
		612.130-010	SPIKEMAKING SUPERVISOR	3	2	1	TWO TO FOUR YEARS
		612.131-010	FORGE-SHOP SUPERVISOR	4	3	3	FOUR TO TEN YEARS

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CODE	TITLE	CODE	TITLE				
		613.130-010	SUPERVISOR, BLOOMING MILL	4	4	3	TWO TO FOUR YEARS
		613.130-014	SUPERVISOR, MERCHANT-MILL ROLLING A	4	3	3	TWO TO FOUR YEARS
		613.130-018	SUPERVISOR, STRUCTURAL ROLLING-AND-	4	3	4	FOUR TO TEN YEARS
		613.132-010	SUPERVISOR, HOT-STRIP MILL	4	3	3	TWO TO FOUR YEARS
		614.132-010	SUPERVISOR, DRAWING	4	3	3	TWO TO FOUR YEARS
		614.132-014	SUPERVISOR, EXTRUSION	4	3	3	TWO TO FOUR YEARS
		615.130-014	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		615.132-010	SUPERVISOR, SHEARING	4	3	3	TWO TO FOUR YEARS
		617.130-010	SUPERVISOR	4	3	4	ONE TO TWO YEARS
		617.130-014	SUPERVISOR, FENCE MANUFACTURE	4	2	2	ONE TO TWO YEARS
		619.130-010	HYDRAULIC-PRESSURE-AUTO-FRETTAGE-MA	4	3	4	TWO TO FOUR YEARS
		619.130-014	SUPERVISOR, ALUMINUM FABRICATION	4	3	3	FOUR TO TEN YEARS
		619.130-018	SUPERVISOR, COLD ROLLING	4	3	3	ONE TO TWO YEARS
		619.130-022	SUPERVISOR, CONTINUOUS-WELD-PIPE MI	4	3	3	FOUR TO TEN YEARS
		619.130-026	SUPERVISOR, HOT-WOUND SPRING PRODUC	4	3	3	FOUR TO TEN YEARS
		619.131-018	SHRINK-PIT SUPERVISOR	4	4	3	TWO TO FOUR YEARS
		619.132-010	LEAD-SECTION SUPERVISOR	4	3	3	FOUR TO TEN YEARS
		619.132-018	SHELL-SHOP SUPERVISOR	4	3	2	FOUR TO TEN YEARS
		619.132-030	SUPERVISOR, PLATE HEATING, ROLLING,	4	3	3	FOUR TO TEN YEARS
		619.134-010	SUPERVISOR, CONDITIONING YARD	3	2	2	FOUR TO TEN YEARS
		619.137-010	MACHINE-ADJUSTER LEADER	4	3	3	FOUR TO TEN YEARS
		622.131-010	SUPERVISOR, RAILROAD CAR REPAIR	4	3	4	FOUR TO TEN YEARS
		622.131-014	SUPERVISOR, ROUNDHOUSE	4	3	4	FOUR TO TEN YEARS
		622.131-018	SUPERVISOR, WHEEL SHOP	4	3	4	FOUR TO TEN YEARS
		640.132-010	SUPERVISOR, COREMAKER	4	3	3	TWO TO FOUR YEARS
		645.130-010	SUPERVISOR, PAPER PRODUCTS	4	3	3	FOUR TO TEN YEARS
		663.132-010	SUPERVISOR, GREEN END DEPARTMENT	4	3	3	TWO TO FOUR YEARS
		679.130-014	SUPERVISOR, ASBESTOS PIPE	4	3	2	TWO TO FOUR YEARS
		679.130-018	SUPERVISOR, ASBESTOS-CEMENT SHEET	4	3	3	TWO TO FOUR YEARS
		679.137-010	SUPERVISOR, FINISHING DEPARTMENT	3	2	2	THREE TO SIX MONTHS
		680.130-010	SUPERVISOR, CARDING	4	3	3	TWO TO FOUR YEARS
		680.130-014	SUPERVISOR, MIXING	4	3	3	TWO TO FOUR YEARS
		680.135-010	SUPERVISOR, MIXING	4	2	3	SIX TO 12 MONTHS
		681.130-010	SUPERVISOR, PREPARATION DEPARTMENT	4	3	3	TWO TO FOUR YEARS
		681.130-014	SUPERVISOR, WINDING AND TWISTING DE	4	3	3	TWO TO FOUR YEARS
		682.130-010	SUPERVISOR, SPINNING	4	3	4	FOUR TO TEN YEARS
		683.130-010	FLOOR SUPERVISOR, ENDLESS-BELT-WEAV	4	3	3	TWO TO FOUR YEARS
		683.130-014	LOOM-FIXER SUPERVISOR	4	3	4	TWO TO FOUR YEARS
		683.130-018	WEAVE-ROOM SUPERVISOR	4	3	4	TWO TO FOUR YEARS
		683.132-010	PATTERN-CHAIN MAKER SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		687.132-010	SUPERVISOR, TUFTING	4	3	4	ONE TO TWO YEARS
		689.130-014	FELT-GOODS SUPERVISOR, NEEDLE PROCE	4	3	3	FOUR TO TEN YEARS

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CODE	TITLE	CODE	TITLE	R	M L	
		689.130-022	SUPERVISOR, CLOTH WINDING	4	3 3	ONE TO TWO YEARS
		689.130-026	SUPERVISOR, ROVING DEPARTMENT	4	3 3	TWO TO FOUR YEARS
		689.130-030	SUPERVISOR, WEAVING	4	3 3	ONE TO TWO YEARS
		689.134-010	CLOTH-GRADER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		689.134-014	SUPERVISOR, LACE TEARING	4	3 3	TWO TO FOUR YEARS
		689.134-018	SUPERVISOR, PRODUCT INSPECTION	4	2 3	ONE TO TWO YEARS
		689.134-022	SUPERVISOR, QUILTING	4	2 3	ONE TO TWO YEARS
		689.137-010	SUPERVISOR, SEWING DEPARTMENT	4	3 3	ONE TO TWO YEARS
		690.130-010	SUPERVISOR	3	2 3	ONE TO TWO YEARS
		690.130-014	SUPERVISOR, SLITTING-AND-SHIPPING	4	3 3	TWO TO FOUR YEARS
		691.130-010	SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		691.130-014	SUPERVISOR, WIRE-ROPE FABRICATION	4	3 3	TWO TO FOUR YEARS
		692.130-010	BRUSH-FABRICATION SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		692.130-014	FINISHING SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		692.130-018	SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		692.130-022	SUPERVISOR 2	4	3 3	ONE TO TWO YEARS
		692.130-026	SUPERVISOR, BROOMMAKING	4	3 3	ONE TO TWO YEARS
		692.130-030	SUPERVISOR, PAINT ROLLER COVERS	4	3 3	TWO TO FOUR YEARS
		692.130-034	SUPERVISOR, TOY PARTS FORMER	4	3 4	TWO TO FOUR YEARS
		692.132-010	SUPERVISOR 1	4	3 3	ONE TO TWO YEARS
		692.132-014	SUPERVISOR 2	4	3 3	ONE TO TWO YEARS
		692.132-018	SUPERVISOR, SKI PRODUCTION	3	2 3	ONE TO TWO YEARS
		692.137-010	SUPERVISOR, PAINTING DEPARTMENT	4	3 3	TWO TO FOUR YEARS
		694.131-010	TRACER-BULLET-SECTION SUPERVISOR	4	3 3	FOUR TO TEN YEARS
		694.132-010	EXPLOSIVE-OPERATOR SUPERVISOR	4	3 4	FOUR TO TEN YEARS
		699.130-010	PRODUCTION SUPERVISOR	4	3 4	TWO TO FOUR YEARS
		700.130-010	SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		700.131-014	SUPERVISOR	4	3 3	FOUR TO TEN YEARS
		701.137-010	SUPERVISOR, ASSEMBLY-AND-PACKING	4	3 3	TWO TO FOUR YEARS
		706.131-014	SUPERVISOR	4	3 4	TWO TO FOUR YEARS
		712.132-010	SUPERVISOR, SURGICAL GARMENT ASSEMB	4	3 4	TWO TO FOUR YEARS
		712.137-010	SUPERVISOR, FACEPIECE LINE	4	3 3	TWO TO FOUR YEARS
		712.137-014	SUPERVISOR, FINAL ASSEMBLY AND PACK	4	3 3	TWO TO FOUR YEARS
		715.131-018	SUPERVISOR, HAIRSPRING FABRICATION	4	3 3	TWO TO FOUR YEARS
		716.130-010	SUPERVISOR	4	3 4	TWO TO FOUR YEARS
		723.132-010	SUPERVISOR, FABRICATION DEPARTMENT	4	3 3	FOUR TO TEN YEARS
		727.130-010	SUPERVISOR, BURNING, FORMING, AND A	4	3 3	TWO TO FOUR YEARS
		727.137-010	SUPERVISOR, DRY-CELL ASSEMBLY	4	3 3	TWO TO FOUR YEARS
		731.131-010	SUPERVISOR, TOY ASSEMBLY	4	3 4	TWO TO FOUR YEARS
		733.130-010	SUPERVISOR, PLATING AND POINT ASSEM	4	3 3	TWO TO FOUR YEARS
		733.131-010	SUPERVISOR, RUBBER STAMPS AND DIES	4	4 3	TWO TO FOUR YEARS
		733.137-010	SUPERVISOR, ASSEMBLY	4	3 4	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		733.137-014	SUPERVISOR, FINISHING DEPARTMENT	4	3 3 TWO TO FOUR YEARS
		733.137-018	SUPERVISOR, INSPECTION	4	3 4 TWO TO FOUR YEARS
		734.131-010	SUPERVISOR	4	2 3 SIX TO 12 MONTHS
		736.131-010	AUTOMOTIVE-TIRE-TESTING SUPERVISOR	4	3 3 FOUR TO TEN YEARS
		737.131-010	SUPERVISOR, FIREWORKS ASSEMBLY	4	2 3 TWO TO FOUR YEARS
		737.132-010	PRIMER SUPERVISOR	4	2 3 TWO TO FOUR YEARS
		737.134-010	INSPECTION SUPERVISOR	4	2 3 FOUR TO TEN YEARS
		737.137-014	POWDER-AND-PRIMER-CANNING LEADER	4	3 3 FOUR TO TEN YEARS
		737.137-018	SUPERVISOR	4	4 3 FOUR TO TEN YEARS
		737.137-022	SUPERVISOR, BELT-AND-LINK ASSEMBLY	4	3 3 FOUR TO TEN YEARS
		739.130-010	SUPERVISOR, BIT AND SHANK DEPARTMEN	4	3 3 TWO TO FOUR YEARS
		739.131-010	SUPERVISOR	4	2 3 TWO TO FOUR YEARS
		739.131-014	SUPERVISOR	4	2 3 TWO TO FOUR YEARS
		739.132-010	SUPERVISOR, CORNCOB PIPE MANUFACTUR	3	2 3 ONE TO TWO YEARS
		739.134-010	SUPERVISOR, ASSEMBLY ROOM	4	3 3 TWO TO FOUR YEARS
		739.137-010	ASSEMBLY SUPERVISOR	4	2 3 TWO TO FOUR YEARS
		739.137-014	SUPERVISOR, LAMP SHADES	4	2 2 TWO TO FOUR YEARS
		739.137-018	SUPERVISOR, PIPE MANUFACTURE	4	3 3 TWO TO FOUR YEARS
		739.137-022	SUPERVISOR, WALL MIRROR DEPARTMENT	3	3 3 SIX TO 12 MONTHS
		749.131-010	SUPERVISOR, DECORATING	4	3 3 TWO TO FOUR YEARS
		749.131-014	SUPERVISOR, PAINT DEPARTMENT	4	3 3 TWO TO FOUR YEARS
		749.134-010	SUPERVISOR, FINISHING	4	2 3 FOUR TO TEN YEARS
		749.137-010	CHEST-PAINTING AND SEALING SUPERVIS	4	3 3 FOUR TO TEN YEARS
		750.130-010	SUPERVISOR	4	2 4 TWO TO FOUR YEARS
		750.132-010	RETREAD SUPERVISOR	4	2 3 SIX TO 12 MONTHS
		754.137-010	SUPERVISOR, SAMPLE	4	3 3 TWO TO FOUR YEARS
		759.135-010	SUPERVISOR, SCOURING PADS	4	3 3 TWO TO FOUR YEARS
		759.137-010	SUPERVISOR 1	4	3 3 TWO TO FOUR YEARS
		761.130-010	SUPERVISOR, BRIAR SHOP	4	3 3 TWO TO FOUR YEARS
		761.131-010	SUPERVISOR, LAST-MODEL DEPARTMENT	4	3 3 FOUR TO TEN YEARS
		762.134-010	SUPERVISOR, COMPONENT ASSEMBLER	4	3 3 FOUR TO TEN YEARS
		764.134-010	SUPERVISOR, COOPERAGE SHOP	4	2 3 TWO TO FOUR YEARS
		769.130-010	SUPERVISOR, FABRICATION	4	2 3 TWO TO FOUR YEARS
		769.137-010	STOCKING-AND-BOX-SHOP SUPERVISOR	4	3 3 TWO TO FOUR YEARS
		771.137-010	SUPERVISOR, SLATE SPLITTING	3	2 2 SIX TO 12 MONTHS
		773.131-010	PASTER SUPERVISOR	4	2 3 TWO TO FOUR YEARS
		774.130-010	SUPERVISOR, CLAY SHOP	4	3 3 TWO TO FOUR YEARS
		775.130-010	SUPERVISOR, FINISHING	4	3 3 FOUR TO TEN YEARS
		775.131-010	SUPERVISOR, CONCRETE-STONE FINISHIN	4	3 3 TWO TO FOUR YEARS
		775.134-010	CUTTING SUPERVISOR	4	4 3 ONE TO TWO YEARS
		779.131-010	SUPERVISOR	4	3 3 FOUR TO TEN YEARS
		787.132-014	SUPERVISOR, SEWING ROOM	4	2 3 SIX TO 12 MONTHS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7100 SUPERVISORS; PRODUCTION OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		788.131-010	SUPERVISOR	4 3 3	ONE TO TWO YEARS
		789.132-014	SUPERVISOR	4 3 3	ONE TO TWO YEARS
		789.132-018	SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		789.132-022	SUPERVISOR, NET MAKING	4 3 3	TWO TO FOUR YEARS
		789.132-026	SUPERVISOR, PARACHUTE MANUFACTURING	4 2 3	TWO TO FOUR YEARS
		789.134-010	SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		789.137-014	SUPERVISOR, WEBBING	4 3 3	TWO TO FOUR YEARS
		790.134-010	SUPERVISOR, CIGAR MAKING, HAND	3 2 3	ONE TO TWO YEARS
		801.131-018	SUPERVISOR, RIDE ASSEMBLY	4 2 2	TWO TO FOUR YEARS
		806.130-010	SUPERVISOR, ENGINE ASSEMBLY	4 3 2	FOUR TO TEN YEARS
		806.131-022	SUPERVISOR, ERECTION SHOP	4 3 3	FOUR TO TEN YEARS
		806.134-010	SUPERVISOR, AUTOMOBILE ASSEMBLY	4 4 4	TWO TO FOUR YEARS
		806.137-010	SUPERVISOR, CAR INSTALLATIONS	4 3 2	TWO TO FOUR YEARS
		806.137-014	SUPERVISOR, ORDNANCE TRUCK INSTALLA	4 3 3	TWO TO FOUR YEARS
		806.137-018	SUPERVISOR, SHIPPING TRACK	4 3 3	TWO TO FOUR YEARS
		809.131-014	SUPERVISOR, ORNAMENTAL IRONWORKING	4 3 3	TWO TO FOUR YEARS
		809.134-010	SUPERVISOR, GRINDING AND SPRAYING	4 3 3	SIX TO 12 MONTHS
		822.131-022	PROTECTIVE-SIGNAL SUPERINTENDENT	4 4 4	TWO TO FOUR YEARS
		829.131-018	INSTALLATION SUPERINTENDENT, PIN-SE	4 3 3	FOUR TO TEN YEARS
		843.134-010	SUPERVISOR, DOPING	4 2 3	TWO TO FOUR YEARS
		849.137-010	DISPATCHER	4 3 3	ONE TO TWO YEARS
		849.137-014	DISPATCHER, READY-MIX PLANT	4 3 3	ONE TO TWO YEARS
		851.137-010	BANK BOSS	4 3 3	TWO TO FOUR YEARS
		851.137-014	SUPERVISOR, SEWER MAINTENANCE	4 3 3	ONE TO TWO YEARS
		869.133-010	CLEARING SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		869.134-010	FENCE-ERECTOR SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		869.134-022	TRACK-LAYING SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		869.137-010	TRAFFIC-MAINTENANCE SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		891.137-010	MAINTENANCE SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		909.137-014	GARBAGE-COLLECTION SUPERVISOR	4 3 3	ONE TO TWO YEARS
		910.137-034	ROAD SUPERVISOR OF ENGINES	4 3 4	TWO TO FOUR YEARS
		920.130-010	SUPERVISOR, PACKING	4 3 3	ONE TO TWO YEARS
		920.132-010	PACKAGING SUPERVISOR	4 2 3	ONE TO TWO YEARS
		920.132-014	SUPERVISOR, CARTON AND CAN SUPPLY	4 3 3	TWO TO FOUR YEARS
		920.137-014	SORTING SUPERVISOR	4 2 3	ONE TO TWO YEARS
		920.137-018	SUPERVISOR	4 3 3	SIX TO 12 MONTHS
		920.137-022	SUPERVISOR, FILLING-AND-PACKING	3 2 3	SIX TO 12 MONTHS
		922.137-014	SUPERVISOR, HIDE HOUSE	3 2 2	TWO TO FOUR YEARS
		929.131-010	SUPERVISOR, SALVAGE	4 3 3	TWO TO FOUR YEARS
		929.133-010	YARD SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		929.137-014	POLEYARD SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		929.137-026	YARD SUPERVISOR	4 2 3	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
		953.137-014	PRESSURE SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		955.137-010	SNOW-REMOVING SUPERVISOR	4 3 3	ONE TO TWO YEARS
		962.137-010	GRIP BOSS	4 3 4	FOUR TO TEN YEARS
		962.137-018	SUPERVISOR, COSTUMING	4 3 4	TWO TO FOUR YEARS
		969.137-010	SUPERVISOR, CIRCUS	4 2 2	ONE TO TWO YEARS
		979.137-014	SUPERVISOR, INSPECTING	4 2 2	TWO TO FOUR YEARS
01.0204	AGRICULTURAL POWER MACHINERY	801.137-010	SUPERVISOR, ASSEMBLY	4 3 2	TWO TO FOUR YEARS
		801.137-014	SUPERVISOR, INSPECTION	4 3 3	TWO TO FOUR YEARS
01.0302	ANIMAL PRODUCTION	410.134-010	SUPERVISOR, LIVESTOCK-YARD	3 3 3	ONE TO TWO YEARS
01.0402	FOOD PRODUCTS	522.134-010	SUPERVISOR, BRINEYARD	4 3 3	TWO TO FOUR YEARS
		529.137-022	SUPERINTENDENT, GRAIN ELEVATOR	4 3 4	ONE TO TWO YEARS
		529.137-046	SUPERVISOR, FRUIT GRADING	4 2 3	ONE TO TWO YEARS
		920.137-010	PACKING-HOUSE SUPERVISOR	4 3 3	ONE TO TWO YEARS
01.0507	HORSE HANDLING AND CARE	*410.134-010	SUPERVISOR, LIVESTOCK-YARD	3 3 3	ONE TO TWO YEARS
02.0203	ANIMAL HEALTH	410.134-010	SUPERVISOR, LIVESTOCK-YARD	3 3 3	ONE TO TWO YEARS
02.0208	LIVESTOCK	410.134-010	SUPERVISOR, LIVESTOCK-YARD	3 3 3	ONE TO TWO YEARS
02.0209	POULTRY	529.137-042	SUPERVISOR, EGG PROCESSING	4 3 3	TWO TO FOUR YEARS
02.0301	FOOD SCIENCES	523.131-010	TESTING AND ANALYSIS DEPARTMENT SUP	4 3 4	TWO TO FOUR YEARS
		529.131-014	SUPERVISOR, DAIRY PROCESSING	4 3 3	TWO TO FOUR YEARS
		529.132-070	SUPERVISOR, MALTED MILK	4 2 3	TWO TO FOUR YEARS
		529.137-014	SANITARIAN	4 2 3	TWO TO FOUR YEARS
		529.137-066	SUPERVISOR, WHIPPED TOPPING	4 2 3	TWO TO FOUR YEARS
03.0403	FOREST PRODUCTS UTILIZATION	922.137-030	YARD SUPERVISOR	3 2 2	ONE TO TWO YEARS
03.0405	LOGGING	454.134-010	SUPERVISOR, FELLING-BUCKING	4 2 3	TWO TO FOUR YEARS
		459.137-010	WOODS BOSS	4 2 3	TWO TO FOUR YEARS
		669.137-010	SUPERVISOR, WOOD-CREW	3 2 2	ONE TO TWO YEARS
03.0504	FOREST ENGINEERING	*459.137-010	WOODS BOSS	4 2 3	TWO TO FOUR YEARS
03.0506	FOREST MANAGEMENT	*459.137-010	WOODS BOSS	4 2 3	TWO TO FOUR YEARS
06.0705	TRANSPORTATION MANAGEMENT	909.137-018	TRUCK SUPERVISOR	4 3 4	FOUR TO TEN YEARS

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CODE	TITLE	CODE	TITLE	R	M L	
		910.137-046	YARD MANAGER	4	3 3	ONE TO TWO YEARS
		911.137-022	SUPERINTENDENT, STEVEDORING	4	3 3	TWO TO FOUR YEARS
		913.133-010	ROAD SUPERVISOR	4	3 4	ONE TO TWO YEARS
		913.133-014	SUPERVISOR, CAB	4	3 4	TWO TO FOUR YEARS
06.1401	MARKETING MANAGEMENT	184.167-142	SUPERINTENDENT, COLD STORAGE	4	3 3	FOUR TO TEN YEARS
		369.167-010	MANAGER, LAUNDROMAT	4	3 3	ONE TO TWO YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	502.130-010	SUPERVISOR, CASTING-AND-PASTING	4	3 3	TWO TO FOUR YEARS
		504.131-010	HEAT-TREAT SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		505.130-010	SUPERVISOR, METALIZING	4	4 4	FOUR TO TEN YEARS
		505.130-014	SUPERVISOR, VACUUM METALIZING	4	3 3	TWO TO FOUR YEARS
		509.130-010	SUPERVISOR, POWDERED METAL	4	3 3	TWO TO FOUR YEARS
		509.132-010	SUPERVISOR, SOAKING PITS	4	3 3	FOUR TO TEN YEARS
		511.130-010	ALUMINA-PLANT SUPERVISOR	4	3 3	FOUR TO TEN YEARS
		511.135-010	FILTER-PLANT SUPERVISOR	4	3 3	ONE TO TWO YEARS
		512.132-010	MELTER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		512.132-014	RECLAMATION SUPERVISOR	4	2 3	TWO TO FOUR YEARS
		512.132-018	REMELT-FURNACE EXPEDITER	4	2 3	TWO TO FOUR YEARS
		512.132-022	SUPERVISOR, BLAST FURNACE	4	3 3	TWO TO FOUR YEARS
		512.135-010	POT-ROOM SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		514.130-010	PERMANENT-MOLD SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		514.130-014	SUPERVISOR, DIE CASTING	4	3 3	TWO TO FOUR YEARS
		514.134-010	TAPPER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		514.137-010	SUPERVISOR, PIG-MACHINE	4	2 3	ONE TO TWO YEARS
		514.137-014	SUPERVISOR, PIT-AND-AUXILIARIES	3	2 3	ONE TO TWO YEARS
		519.130-010	CELL-FEED-DEPARTMENT SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		519.130-014	SAMPLER, HEAD	4	3 3	TWO TO FOUR YEARS
		519.130-018	SUPERVISOR, LEAD REFINERY	4	3 3	FOUR TO TEN YEARS
		519.130-022	SUPERVISOR, REVERBERATORY FURNACE	4	3 3	FOUR TO TEN YEARS
		519.130-026	SUPERVISOR, SINTERING PLANT	4	3 3	FOUR TO TEN YEARS
		519.130-030	SUPERVISOR, URANIUM PROCESSING	4	3 3	FOUR TO TEN YEARS
		519.131-010	FOUNDRY SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		519.131-014	MILL-LABOR SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		519.132-010	SUPERVISOR, BLAST FURNACE	4	3 3	ONE TO TWO YEARS
		519.132-014	SUPERVISOR, BLAST-FURNACE-AUXILIARI	4	3 3	ONE TO TWO YEARS
		519.132-018	SUPERVISOR, CELL OPERATION	4	3 3	TWO TO FOUR YEARS
		519.132-022	SUPERVISOR, FOLDER MAKING	4	3 3	ONE TO TWO YEARS
		519.134-010	POT-LINING SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		519.137-010	SUPERVISOR, MOLD YARD	4	3 3	TWO TO FOUR YEARS
		519.137-014	SUPERVISOR, SCRAP PREPARATION	4	3 3	ONE TO TWO YEARS
		525.131-010	SUPERVISOR, ABATTOIR	4	2 2	TWO TO FOUR YEARS

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		525.131-014	SUPERVISOR, CUTTING AND BONING	4 2 2	TWO TO FOUR YEARS
		525.132-010	SUPERVISOR, CURED MEATS	4 2 2	ONE TO TWO YEARS
		525.132-014	SUPERVISOR, TANK HOUSE	4 2 2	TWO TO FOUR YEARS
		525.134-014	SUPERVISOR, POULTRY PROCESSING	4 2 2	TWO TO FOUR YEARS
		529.135-014	SUPERVISOR, CURED-MEAT PACKING	4 2 2	TWO TO FOUR YEARS
		529.137-062	SUPERVISOR, SPECIALTY FOOD PRODUCTS	4 3 4	FOUR TO TEN YEARS
		549.131-010	SUPERVISOR, NATURAL-GAS-FIELD PROCE	4 3 3	TWO TO FOUR YEARS
		549.132-010	GREASE MAKER, HEAD	4 4 4	FOUR TO TEN YEARS
		549.132-030	SUPERVISOR, PURIFICATION	4 4 4	TWO TO FOUR YEARS
		549.132-034	SUPERVISOR, TREATING AND PUMPING	4 3 4	FOUR TO TEN YEARS
		549.137-018	SUPERVISOR, SPECIALTY PLANT	4 4 4	TWO TO FOUR YEARS
		559.132-078	SUPERVISOR, DEHYDROGENATION	4 3 3	FOUR TO TEN YEARS
		570.130-010	SUPERVISOR, CLAY PREPARATION	4 3 3	FOUR TO TEN YEARS
		570.132-014	MILLING SUPERVISOR	4 3 2	TWO TO FOUR YEARS
		573.132-010	BURNING SUPERVISOR	4 3 2	TWO TO FOUR YEARS
		574.130-010	GLAZE SUPERVISOR	4 2 2	TWO TO FOUR YEARS
		574.132-010	GLAZE SUPERVISOR	4 3 2	TWO TO FOUR YEARS
		574.132-014	SUPERVISOR, SILVERING DEPARTMENT	4 2 2	TWO TO FOUR YEARS
		574.134-010	SUPERVISOR, HAND SILVERING	4 3 4	TWO TO FOUR YEARS
		575.130-010	PRESS SUPERVISOR	4 3 2	TWO TO FOUR YEARS
		575.130-014	SUPERVISOR 1	3 2 2	SIX TO 12 MONTHS
		575.130-018	SUPERVISOR, FORMING DEPARTMENT 1	4 3 3	TWO TO FOUR YEARS
		575.131-010	SUPERVISOR, CONCRETE-STONE FABRICAT	4 3 2	TWO TO FOUR YEARS
		575.131-014	SUPERVISOR, PRECAST AND PRESTRESSED	4 3 3	TWO TO FOUR YEARS
		575.137-010	DRAWING-KILN SUPERVISOR	4 3 3	SIX TO 12 MONTHS
		575.137-014	SUPERVISOR, WET POUR	4 2 2	TWO TO FOUR YEARS
		579.130-014	SUPERVISOR, CONCRETE BLOCK PLANT	4 3 3	TWO TO FOUR YEARS
		579.130-018	SUPERVISOR, CONCRETE PIPE PLANT	4 3 3	TWO TO FOUR YEARS
		579.130-022	SUPERVISOR, FORMING DEPARTMENT 2	4 3 3	ONE TO TWO YEARS
		579.134-010	SUPERVISOR, INSPECTION	4 3 3	ONE TO TWO YEARS
		579.137-010	SUPERVISOR	4 2 2	TWO TO FOUR YEARS
		579.137-026	SUPERVISOR, RECEIVING AND PROCESSIN	4 3 3	TWO TO FOUR YEARS
		590.130-010	SUPERVISOR, ELECTRONICS PROCESSING	4 3 3	TWO TO FOUR YEARS
		599.132-010	SUPERVISOR, TUMBLERS	4 3 3	TWO TO FOUR YEARS
		603.130-010	SUPERVISOR, GRINDING	4 3 3	TWO TO FOUR YEARS
		603.137-010	FILING-AND-POLISHING SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		604.130-010	SUPERVISOR, ROLL SHOP	4 3 3	TWO TO FOUR YEARS
		609.130-010	MACHINE-SHOP SUPERVISOR, PRODUCTION	4 4 3	FOUR TO TEN YEARS
		609.130-014	SCREW SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		609.130-018	SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		609.130-022	SUPERVISOR, AUTOMATIC MACHINES	4 3 3	TWO TO FOUR YEARS
		609.130-026	WATCH MANUFACTURING SUPERVISOR	4 3 3	TWO TO FOUR YEARS

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		609.131-010	INSPECTION SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		609.131-014	SUPERVISOR, MOLD MAKING	4 4 4	FOUR TO TEN YEARS
		609.131-018	SUPERVISOR, MOLD SHOP	4 4 4	FOUR TO TEN YEARS
		609.132-010	SLAB-CONDITIONER SUPERVISOR	3 3 2	ONE TO TWO YEARS
		615.130-010	PRESS-HAND SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		616.130-010	SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		616.130-014	SUPERVISOR, SPECIALTY MANUFACTURING	4 3 3	TWO TO FOUR YEARS
		616.130-018	SUPERVISOR, SPRING PRODUCTION	4 3 3	FOUR TO TEN YEARS
		616.130-022	SUPERVISOR, STEEL DIVISION	4 3 3	TWO TO FOUR YEARS
		619.130-030	SUPERVISOR, LINE	4 2 3	FOUR TO TEN YEARS
		619.130-034	SUPERVISOR, MACHINE SETTER	4 3 4	FOUR TO TEN YEARS
		619.130-038	SUPERVISOR, PIPE FINISHING	4 3 3	TWO TO FOUR YEARS
		619.130-042	SUPERVISOR, PUNCH-AND-ASSEMBLY DEPA	4 3 4	TWO TO FOUR YEARS
		619.131-010	MACHINING-AND-ASSEMBLY SUPERVISOR	4 2 3	SIX TO 12 MONTHS
		619.131-014	SHOP SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		619.132-014	SHEET-MILL SUPERVISOR	3 2 2	TWO TO FOUR YEARS
		619.132-022	STRUCTURAL-MILL SUPERVISOR	4 2 3	ONE TO TWO YEARS
		619.132-026	SUPERVISOR, FINISHING-AND-SHIPING	4 3 3	ONE TO TWO YEARS
		620.131-010	SUPERVISOR, ENDLESS TRACK VEHICLE	4 4 4	TWO TO FOUR YEARS
		620.131-014	SUPERVISOR, GARAGE	4 3 4	TWO TO FOUR YEARS
		620.131-018	SUPERVISOR, MOTORCYCLE REPAIR SHOP	4 3 4	FOUR TO TEN YEARS
		621.131-010	SUPERCHARGER-REPAIR SUPERVISOR	4 4 4	TWO TO FOUR YEARS
		621.131-014	SUPERVISOR, AIRCRAFT MAINTENANCE	4 4 4	FOUR TO TEN YEARS
		621.131-018	SUPERVISOR, PRODUCTION DEPARTMENT	4 4 4	FOUR TO TEN YEARS
		621.137-010	SUPERVISOR, RECLAMATION	4 3 3	ONE TO TWO YEARS
		629.131-014	OIL-FIELD EQUIPMENT MECHANIC SUPERV	4 3 3	FOUR TO TEN YEARS
		630.134-010	ANODE-CREW SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		638.131-014	MACHINE-ASSEMBLER SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		638.131-030	MILLWRIGHT SUPERVISOR	4 4 4	FOUR TO TEN YEARS
		650.132-010	SUPERVISOR, TYPESETTING	4 3 3	FOUR TO TEN YEARS
		651.130-010	SUPERVISOR, PRESS ROOM	4 3 4	FOUR TO TEN YEARS
		652.130-010	SUPERVISOR, DECORATING	4 3 3	ONE TO TWO YEARS
		652.130-014	SUPERVISOR, PRINTING AND STAMPING	4 2 3	FOUR TO TEN YEARS
		652.130-018	SUPERVISOR, ROLLER PRINTING	4 2 3	TWO TO FOUR YEARS
		652.137-014	SUPERVISOR, SCREEN PRINTING	4 2 3	FOUR TO TEN YEARS
		653.131-010	SUPERVISOR, BINDERY	4 2 3	FOUR TO TEN YEARS
		662.132-010	SUPERVISOR, SANDING	4 4 3	TWO TO FOUR YEARS
		669.130-010	SUPERVISOR, ASSEMBLY ROOM	4 3 3	TWO TO FOUR YEARS
		669.130-014	SUPERVISOR, CUTTING DEPARTMENT	4 2 3	TWO TO FOUR YEARS
		669.130-018	SUPERVISOR, FRAMING MILL	4 2 2	FOUR TO TEN YEARS
		669.130-022	SUPERVISOR, MACHINING	4 3 3	TWO TO FOUR YEARS
		669.130-026	SUPERVISOR, SAWMILL	4 3 3	TWO TO FOUR YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		669.130-030	SUPERVISOR, SHUTTLE FITTING	4	2	2	TWO TO FOUR YEARS
		669.130-034	SUPERVISOR, SHUTTLE PREPARATION	4	2	2	TWO TO FOUR YEARS
		669.130-038	SUPERVISOR, SHUTTLE VENEERING	4	3	3	TWO TO FOUR YEARS
		673.130-010	SUPERVISOR, EDGING	3	2	2	ONE TO TWO YEARS
		677.131-010	GLASS-CUT-OFF SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		679.130-010	SUPERVISOR	4	3	4	TWO TO FOUR YEARS
		679.137-014	SUPERVISOR, MIRROR FABRICATION	4	2	2	TWO TO FOUR YEARS
		689.130-018	KNITTING-MACHINE FIXER, HEAD	4	3	4	TWO TO FOUR YEARS
		692.130-038	SUPERVISOR, KEYMODULE ASSEMBLY	4	3	3	TWO TO FOUR YEARS
		693.130-010	SUPERVISOR, MODEL MAKING	4	3	4	TWO TO FOUR YEARS
		693.132-010	PATTERN-GRADER SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		699.131-010	SUPERVISOR, LUBRICATION	4	3	3	TWO TO FOUR YEARS
		700.131-010	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		703.132-010	SUPERVISOR, METAL CANS	4	3	3	TWO TO FOUR YEARS
		706.130-010	SUPERVISOR, COIN-MACHINE	4	3	3	TWO TO FOUR YEARS
		710.131-034	SUPERVISOR, SHOP	4	3	3	FOUR TO TEN YEARS
		710.131-042	SUPERVISOR, THERMOSTATIC CONTROLS	4	3	3	TWO TO FOUR YEARS
		711.137-010	SUPERVISOR, OPTICAL INSTRUMENT ASSE	4	3	3	TWO TO FOUR YEARS
		714.131-010	SUPERVISOR, MOTION-PICTURE EQUIPMEN	4	4	4	FOUR TO TEN YEARS
		715.131-010	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		715.131-014	SUPERVISOR, DIALS	4	3	3	TWO TO FOUR YEARS
		715.131-022	SUPERVISOR, INSPECTION	4	3	3	TWO TO FOUR YEARS
		715.131-026	SUPERVISOR, MAINSPRING FABRICATION	4	3	3	TWO TO FOUR YEARS
		715.131-030	SUPERVISOR, TUMBLING AND ROLLING	4	3	3	TWO TO FOUR YEARS
		721.131-014	SUPERVISOR, INSPECTION AND TESTING	4	3	3	TWO TO FOUR YEARS
		722.131-010	INSTRUMENT-SHOP SUPERVISOR	4	2	3	TWO TO FOUR YEARS
		723.131-010	SUPERVISOR, SMALL APPLIANCE ASSEMBL	4	3	3	TWO TO FOUR YEARS
		724.130-010	SUPERVISOR, ELECTRONIC COILS	4	3	3	FOUR TO TEN YEARS
		724.131-010	SUPERVISOR, COIL WINDING	4	3	3	TWO TO FOUR YEARS
		724.131-014	TRANSFORMER SHOP SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		726.130-010	SUPERVISOR, ELECTRONICS	4	3	3	TWO TO FOUR YEARS
		726.131-010	ELECTRONIC-COMPUTER-SUBASSEMBLY SUP	4	3	3	TWO TO FOUR YEARS
		729.131-014	RELAY-SHOP SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		730.131-010	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		732.130-010	SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		736.131-014	FIREARMS-ASSEMBLY SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		736.131-018	INSPECTION SUPERVISOR	4	3	3	TWO TO FOUR YEARS
		742.134-010	SUPERVISOR, FINISHING	4	3	3	TWO TO FOUR YEARS
		754.130-010	DECORATING-AND-ASSEMBLY SUPERVISOR	4	2	3	SIX TO 12 MONTHS
		763.134-010	SUPERVISOR, QUALITY CONTROL	4	4	3	ONE TO TWO YEARS
		769.134-010	SUPERVISOR, DIMENSION WAREHOUSE	4	3	3	TWO TO FOUR YEARS
		769.137-014	SUPERVISOR, ASSEMBLY	4	3	3	TWO TO FOUR YEARS

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CODE	TITLE	CODE	TITLE	R	M L	
		777.131-010	SUPERVISOR, MOLD SHOP	4	3 3	FOUR TO TEN YEARS
		780.131-014	SUPERVISOR, UPHOLSTERY DEPARTMENT	4	3 3	TWO TO FOUR YEARS
		780.134-010	SUPERVISOR, COVERING AND LINING	4	2 2	FOUR TO TEN YEARS
		780.134-014	SUPERVISOR, SPRING-UP	4	3 3	TWO TO FOUR YEARS
		780.137-010	SUPERVISOR, MATTRESS AND BOXSPRINGS	4	2 2	TWO TO FOUR YEARS
		788.137-010	SUPERVISOR, PACKING	4	3 3	TWO TO FOUR YEARS
		801.131-014	SUPERVISOR, FITTING	4	4 3	FOUR TO TEN YEARS
		801.134-010	SUPERVISOR, REINFORCED-STEEL-PLACIN	4	3 3	FOUR TO TEN YEARS
		806.131-014	SUPERVISOR, ASSEMBLY	4	3 3	FOUR TO TEN YEARS
		806.131-026	SUPERVISOR, INSPECTION AND TESTING	4	3 3	FOUR TO TEN YEARS
		807.137-010	SUPERVISOR, AUTOMOBILE BODY REPAIR	4	3 3	TWO TO FOUR YEARS
		809.130-010	SUPERVISOR, ASSEMBLY DEPARTMENT	4	3 3	TWO TO FOUR YEARS
		809.130-014	SUPERVISOR, METAL FABRICATING	4	3 3	FOUR TO TEN YEARS
		809.131-010	SUPERVISOR, FABRICATION AND ASSEMBL	4	3 3	TWO TO FOUR YEARS
		809.134-014	SUPERVISOR, METAL HANGING	4	3 3	TWO TO FOUR YEARS
		819.131-010	LEAD-BURNER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		819.131-014	WELDING SUPERVISOR	4	4 3	FOUR TO TEN YEARS
		820.131-010	ELECTRICIAN SUPERVISOR, SUBSTATION	4	4 4	FOUR TO TEN YEARS
		820.137-010	TRANSFORMER ASSEMBLY SUPERVISOR	4	4 4	TWO TO FOUR YEARS
		821.131-022	STEEL-POST-INSTALLER SUPERVISOR	4	4 4	TWO TO FOUR YEARS
		822.131-010	CENTRAL-OFFICE-REPAIRER SUPERVISOR	4	4 4	TWO TO FOUR YEARS
		822.131-026	SIGNAL SUPERVISOR	4	4 3	TWO TO FOUR YEARS
		822.131-030	TEST-DESK SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		823.131-014	RIGGER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		824.137-010	ELECTRICIAN, CHIEF	4	3 3	TWO TO FOUR YEARS
		824.137-014	STREET-LIGHT-SERVICER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		825.137-010	SUPERVISOR, LINE DEPARTMENT	4	3 3	TWO TO FOUR YEARS
		826.131-010	ELECTRICAL SUPERVISOR	4	4 4	TWO TO FOUR YEARS
		826.131-014	SUPERVISOR, ELECTRICAL ASSEMBLIES	4	4 4	TWO TO FOUR YEARS
		827.131-014	SUPERVISOR, MAJOR APPLIANCE ASSEMBL	4	4 4	TWO TO FOUR YEARS
		829.131-010	CABLE SUPERVISOR	4	3 3	FOUR TO TEN YEARS
		843.137-010	SUPERVISOR, WATERPROOFING	4	3 3	TWO TO FOUR YEARS
		853.137-010	SUPERVISOR, MIXING PLACE	4	3 2	TWO TO FOUR YEARS
		860.137-010	CARPENTER-LABOR SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		862.132-010	WELL-POINT PUMPING SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		862.134-010	SUCTION-DREDGE-PIPE-LINE-PLACING SU	4	3 3	TWO TO FOUR YEARS
		862.137-010	MAINS-AND-SERVICE SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		862.137-014	STEAM-DISTRIBUTION SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		863.134-010	BUILDING-INSULATION SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		869.131-026	STEEL-PAN-FORM-PLACING SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		869.131-030	SUPERVISOR, MANUFACTURED BUILDINGS	4	3 3	TWO TO FOUR YEARS
		869.134-014	SUPERVISOR, ADJUSTABLE-STEEL-JOIST-	4	3 3	TWO TO FOUR YEARS

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CODE	TITLE	CODE	TITLE	R M I	
		869.134-018	SUPERVISOR, PIPE-LINE MAINTENANCE	4 3 3	FOUR TO TEN YEARS
		899.133-010	SUPERVISOR, LABOR GANG	4 3 3	TWO TO FOUR YEARS
		899.137-010	AIRPORT-MAINTENANCE CHIEF	4 3 3	TWO TO FOUR YEARS
		899.137-014	SUPERINTENDENT, TRACK	4 3 3	ONE TO TWO YEARS
		899.137-018	SUPERVISOR, MAINTENANCE	4 3 3	TWO TO FOUR YEARS
		914.131-010	SUPERVISOR, PUMPING	4 3 4	TWO TO FOUR YEARS
		914.132-018	SUPERVISOR, CELLARS	4 2 2	TWO TO FOUR YEARS
		914.132-022	SUPERVISOR, FIELD-PIPE-LINES	4 3 4	TWO TO FOUR YEARS
		914.134-010	GAGER, CHIEF	4 3 4	TWO TO FOUR YEARS
		914.137-014	LOADING-RACK SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		914.137-018	SUPERVISOR, DOCK	4 3 4	TWO TO FOUR YEARS
		914.167-010	DISPATCHER, CHIEF 2	4 3 4	TWO TO FOUR YEARS
		915.134-010	TIRE-SERVICE SUPERVISOR	4 3 3	ONE TO TWO YEARS
		939.131-014	SUPERVISOR, PRODUCTION	4 3 3	FOUR TO TEN YEARS
		939.137-010	CHIEF DISPATCHER	4 4 4	TWO TO FOUR YEARS
		952.137-010	CHIEF LOAD DISPATCHER	4 3 4	TWO TO FOUR YEARS
		952.137-018	SUPERINTENDENT, LOCAL	4 3 3	TWO TO FOUR YEARS
		953.137-018	SERVICE SUPERVISOR 1	4 3 3	TWO TO FOUR YEARS
		973.137-010	SUPERVISOR, COMPOSING-ROOM	4 2 3	TWO TO FOUR YEARS
		976.131-014	SUPERVISOR, FILM PROCESSING	4 3 3	TWO TO FOUR YEARS
		976.131-026	SUPERVISOR, TYPE PHOTOGRAPHY	4 3 4	FOUR TO TEN YEARS
		976.132-010	SUPERVISOR, FILM PROCESSING	4 3 3	ONE TO TWO YEARS
		976.134-010	SUPERVISOR, CUTTING AND SPLICING	4 2 3	ONE TO TWO YEARS
		976.137-010	PHOTOGRAPHIC SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		976.137-014	SUPERVISOR, FINISHING DEPARTMENT	4 2 3	ONE TO TWO YEARS
		979.130-010	SUPERVISOR, BLUEPRINTING-AND-PHOTO	4 2 2	FOUR TO TEN YEARS
		979.137-018	SUPERVISOR, PRODUCTION	4 2 2	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVICE	369.167-010	MANAGER, LAUNDROMAT	4 3 3	ONE TO TWO YEARS
08.0705	RETAILING	929.137-030	YARD SUPERVISOR, BUILDING MATERIALS	4 4 3	TWO TO FOUR YEARS
08.0707	WHOLESALE	920.137-010	PACKING-HOUSE SUPERVISOR	4 3 3	ONE TO TWO YEARS
		929.137-030	YARD SUPERVISOR, BUILDING MATERIALS	4 4 3	TWO TO FOUR YEARS
08.0803	BUILDING MATERIALS MARKETING	929.137-030	YARD SUPERVISOR, BUILDING MATERIALS	4 4 3	TWO TO FOUR YEARS
08.1102	TRANSPORTATION MARKETING	913.133-010	ROAD SUPERVISOR	4 3 4	ONE TO TWO YEARS
		913.133-014	SUPERVISOR, CAB	4 3 4	TWO TO FOUR YEARS
08.1106	WAREHOUSE SERVICES MARKETING	184.167-142	SUPERINTENDENT, COLD STORAGE	4 3 3	FOUR TO TEN YEARS
		921.133-018	MATERIAL-HANDLING SUPERVISOR	4 2 3	TWO TO FOUR YEARS

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CODE	TITLE	CODE	TITLE	R M L	
		929.137-018	WAREHOUSE SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		929.137-022	WAREHOUSE SUPERVISOR	4 2 3	TWO TO FOUR YEARS
10.0102	MOTION PICTURE TECHNOLOGY	714.131-010	SUPERVISOR, MOTION-PICTURE EQUIPMEN	4 4 4	FOUR TO TEN YEARS
		960.132-010	CHIEF PROJECTIONIST	4 2 3	FOUR TO TEN YEARS
		962.134-010	RECORDIST, CHIEF	4 3 4	TWO TO FOUR YEARS
		962.137-014	SUPERVISING FILM EDITOR	5 3 5	FOUR TO TEN YEARS
		962.137-022	SUPERVISOR, PROP-MAKING	4 4 3	FOUR TO TEN YEARS
		962.137-026	SUPERVISOR, PROPERTIES	4 3 4	FOUR TO TEN YEARS
10.0103	PHOTOGRAPHIC TECHNOLOGY	976.131-010	LABORATORY CHIEF	4 2 3	FOUR TO TEN YEARS
		976.131-014	SUPERVISOR, FILM PROCESSING	4 3 3	TWO TO FOUR YEARS
		976.134-010	SUPERVISOR, CUTTING AND SPLICING	4 2 3	ONE TO TWO YEARS
		976.137-010	PHOTOGRAPHIC SUPERVISOR	4 2 3	TWO TO FOUR YEARS
10.0104	RADIO AND TELEVISION PRODUCTION AND BROA	714.131-010	SUPERVISOR, MOTION-PICTURE EQUIPMEN	4 4 4	FOUR TO TEN YEARS
		962.134-010	RECORDIST, CHIEF	4 3 4	TWO TO FOUR YEARS
		962.137-014	SUPERVISING FILM EDITOR	5 3 5	FOUR TO TEN YEARS
10.0105	SOUND RECORDING TECHNOLOGY	*962.134-010	RECORDIST, CHIEF	4 3 4	TWO TO FOUR YEARS
10.0106	VIDEO TECHNOLOGY	*976.131-014	SUPERVISOR, FILM PROCESSING	4 3 3	TWO TO FOUR YEARS
		*976.134-010	SUPERVISOR, CUTTING AND SPLICING	4 2 3	ONE TO TWO YEARS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	369.167-010	MANAGER, LAUNDROMAT	4 3 3	ONE TO TWO YEARS
		583.132-010	SUPERVISOR, PRESSING DEPARTMENT	4 3 3	TWO TO FOUR YEARS
15.0303	ELECTRONIC TECHNOLOGY	726.130-010	SUPERVISOR, ELECTRONICS	4 3 3	TWO TO FOUR YEARS
15.0404	INSTRUMENTATION TECHNOLOGY	710.131-034	SUPERVISOR, SHOP	4 3 3	FOUR TO TEN YEARS
		710.131-038	SUPERVISOR, SPECIAL ASSEMBLIES	4 3 3	FOUR TO TEN YEARS
15.0405	ROBOTICS TECHNOLOGY	*726.130-010	SUPERVISOR, ELECTRONICS	4 3 3	TWO TO FOUR YEARS
15.0504	SANITATION TECHNOLOGY	529.137-014	SANITARIAN	4 2 3	TWO TO FOUR YEARS
15.0602	FOOD PROCESSING TECHNOLOGY	523.131-010	TESTING AND ANALYSIS DEPARTMENT SUP	4 3 4	TWO TO FOUR YEARS
15.0603	INDUSTRIAL TECHNOLOGY	691.130-010	TOOL-AND-DIE SUPERVISOR	4 4 3	FOUR TO TEN YEARS
		699.130-010	PRODUCTION SUPERVISOR	4 3 4	TWO TO FOUR YEARS
15.0606	OPTICAL TECHNOLOGY	716.130-010	SUPERVISOR	4 3 4	TWO TO FOUR YEARS

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CODE	TITLE	CODE	TITLE	R	M L	
15.0607	PLASTIC TECHNOLOGY	556.130-010	SUPERVISOR	4	3 4	TWO TO FOUR YEARS
		559.131-014	QUALITY-CONTROL SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		559.132-014	CALENDER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		559.132-022	FINISHING-AREA SUPERVISOR	4	3 3	FOUR TO TEN YEARS
		559.137-038	SUPERVISOR, INSPECTION	4	3 3	TWO TO FOUR YEARS
15.0609	TEXTILE TECHNOLOGY	582.131-014	DYER, SUPERVISOR	5	3 4	TWO TO FOUR YEARS
		589.130-010	CLOTH FINISHER	4	3 4	TWO TO FOUR YEARS
		979.137-022	SUPERVISOR, SAMPLE PREPARATION	4	3 3	TWO TO FOUR YEARS
15.0610	WELDING TECHNOLOGY	819.131-010	LEAD-BURNER SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		819.131-014	WELDING SUPERVISOR	4	4 3	FOUR TO TEN YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	559.131-014	QUALITY-CONTROL SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		559.134-010	QUALITY-CONTROL SUPERVISOR	4	2 4	THREE TO SIX MONTHS
		609.131-010	INSPECTION SUPERVISOR	4	4 4	FOUR TO TEN YEARS
15.0901	COAL MINING TECHNOLOGY	549.137-014	SUPERVISOR, PREPARATION PLANT	4	3 3	TWO TO FOUR YEARS
		939.137-014	PIT SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		939.137-018	SECTION SUPERVISOR	4	3 3	TWO TO FOUR YEARS
15.0902	MINING (EXCLUDING COAL) TECHNOLOGY	939.130-010	SUPERVISOR, POND	4	3 3	TWO TO FOUR YEARS
		939.137-014	PIT SUPERVISOR	4	3 3	TWO TO FOUR YEARS
		939.137-018	SECTION SUPERVISOR	4	3 3	TWO TO FOUR YEARS
15.0903	PETROLEUM TECHNOLOGY	549.131-010	SUPERVISOR, NATURAL-GAS-FIELD PROCE	4	3 3	TWO TO FOUR YEARS
		914.167-010	DISPATCHER, CHIEF 2	4	3 4	TWO TO FOUR YEARS
		939.131-014	SUPERVISOR, PRODUCTION	4	3 3	FOUR TO TEN YEARS
		939.137-010	CHIEF DISPATCHER	4	4 4	TWO TO FOUR YEARS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	583.137-010	SUPERVISOR, PLEATING	4	3 3	FOUR TO TEN YEARS
		589.130-014	FABRIC-COATING SUPERVISOR	4	3 3	FOUR TO TEN YEARS
		683.130-022	WEAVING SUPERVISOR	4	3 4	FOUR TO TEN YEARS
		684.137-010	SUPERVISOR	4	2 2	TWO TO FOUR YEARS
		685.130-010	SUPERVISOR, KNITTING	4	3 3	TWO TO FOUR YEARS
		781.131-010	SUPERVISOR, PATTERN MARKING	4	3 3	TWO TO FOUR YEARS
		781.134-010	SUPERVISOR, CUTTING DEPARTMENT	4	3 3	ONE TO TWO YEARS
		783.132-010	SUPERVISOR	4	3 4	SIX TO 12 MONTHS
		784.130-010	SUPERVISOR, CAP-AND-HAT PRODUCTION	4	3 4	TWO TO FOUR YEARS
		784.132-010	SUPERVISOR	4	3 3	TWO TO FOUR YEARS
786.132-010	SUPERVISOR, GARMFNT MANUFACTURING	4	2 2	ONE TO TWO YEARS		

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		787.132-018	SUPERVISOR, STITCHING DEPARTMENT	4 2 2	TWO TO FOUR YEARS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	785.131-010	SUPERVISOR, ALTERATION WORKROOM	3 3 3	ONE TO TWO YEARS
20.0305	CUSTOM TAILORING AND ALTERATION	785.131-010	SUPERVISOR, ALTERATION WORKROOM	3 3 3	ONE TO TWO YEARS
20.0402	BAKING	526.131-010	BAKERY SUPERVISOR	4 3 3	FOUR TO TEN YEARS
20.0403	CHEF/COOK	526.134-010	COOK, MEXICAN FOOD	4 2 3	TWO TO FOUR YEARS
20.0406	FOOD SERVICE	526.137-010	POTATO-CHIP-PROCESSING SUPERVISOR	4 3 3	ONE TO TWO YEARS
		529.130-010	SUPERVISOR, CANDY	4 2 3	TWO TO FOUR YEARS
		529.131-014	SUPERVISOR, DAIRY PROCESSING	4 3 3	TWO TO FOUR YEARS
		529.137-014	SANITARIAN	4 2 3	TWO TO FOUR YEARS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	787.132-010	SEWING SUPERVISOR	4 3 3	ONE TO TWO YEARS
		789.132-010	SUPERVISOR	4 3 3	TWO TO FOUR YEARS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.131-010	SUPERVISOR, CUTTING-AND-SEWING DEPA	4 3 3	FOUR TO TEN YEARS
		780.131-014	SUPERVISOR, UPHOLSTERY DEPARTMENT	4 3 3	TWO TO FOUR YEARS
		780.134-014	SUPERVISOR, SPRING-UP	4 3 3	TWO TO FOUR YEARS
41.0301	CHEMICAL TECHNOLOGY	550.131-010	COSMETICS SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		550.132-010	SUPERVISOR	4 2 3	ONE TO TWO YEARS
		550.137-010	SUPERVISOR, COMPOUNDING-AND-FINISHI	4 3 3	FOUR TO TEN YEARS
		552.132-010	SHIFT SUPERINTENDENT, CAUSTIC CRESY	4 3 3	FOUR TO TEN YEARS
46.0402	CONCRETE PLACING AND FINISHING	570.132-010	CONCRETE-BATCHING AND MIXING-PLANT	4 3 2	TWO TO FOUR YEARS
48.0202	BOOKBINDING	979.137-010	SUPERVISOR, FINISHING ROOM	4 2 2	TWO TO FOUR YEARS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	979.131-010	SUPERVISOR, PUBLICATIONS PRODUCTION	4 2 4	FOUR TO TEN YEARS
48.0208	PRINTING PRESS OPERATIONS	652.130-014	SUPERVISOR, PRINTING AND STAMPING	4 2 3	FOUR TO TEN YEARS
		652.137-010	PRODUCTION MANAGER, REPRODUCTION	4 2 3	TWO TO FOUR YEARS
		659.130-010	SUPERVISOR, PRINTING-SHOP	4 3 3	FOUR TO TEN YEARS
48.0502	FOUNDRY WORK	513.132-010	CONVERTER SUPERVISOR	4 3 3	0 TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	600.131-010	MACHINE-SHOP SUPERVISOR, TOOL	4 4 3	FOUR TO TEN YEARS
		600.131-014	SALVAGE ENGINEER	4 4 3	TWO TO FOUR YEARS
48.0604	PLASTICS	550.135-014	MIXING SUPERVISOR	4 3 3	SIX TO 12 MONTHS

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OCCUPATION: 7100 SUPERVISORS; PRODUCTION OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R M L	TRAINING TIME
		556.130-018	MOLDING SUPERVISOR	4 3 3	SIX TO 12 MONTHS
		559.134-010	QUALITY-CONTROL SUPERVISOR	4 2 4	THREE TO SIX MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.137-014	SUPERVISOR, LABOR GANG	4 2 3	ONE TO TWO YEARS
		850.137-018	SUPERVISOR, RIPRAP PLACING	4 3 2	ONE TO TWO YEARS
		853.133-010	SUPERVISOR, ASPHALT PAVING	4 3 3	FOUR TO TEN YEARS
		869.137-014	WRECKING SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		921.133-010	CRANE-CREW SUPERVISOR	4 2 3	TWO TO FOUR YEARS
49.0203	MATERIAL HANDLING	911.137-022	SUPERINTENDENT, STEVEDORING	4 3 3	TWO TO FOUR YEARS
		921.133-018	MATERIAL-HANDLING SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		921.137-010	COAL-YARD SUPERVISOR	4 3 3	FOUR TO TEN YEARS
		921.137-014	MATERIAL-CREW SUPERVISOR	4 2 3	TWO TO FOUR YEARS
		922.137-018	SUPERVISOR, LOADING AND UNLOADING	4 2 2	ONE TO TWO YEARS
		922.137-022	SUPERVISOR, OPEN-HEARTH STOCKYARD	4 2 2	FOUR TO TEN YEARS
		929.137-010	GENERAL-HANDLING SUPERVISOR	4 2 2	ONE TO TWO YEARS
49.0204	MINING EQUIPMENT OPERATION	549.137-014	SUPERVISOR, PREPARATION PLANT	4 3 3	TWO TO FOUR YEARS
		939.130-010	SUPERVISOR, POND	4 3 3	TWO TO FOUR YEARS
		939.137-014	PIT SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		939.137-018	SECTION SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		939.167-010	CONTROLLER, COAL OR ORE	3 3 3	ONE TO TWO YEARS
49.0205	TRUCK AND BUS DRIVING	909.137-010	DRIVER SUPERVISOR	4 3 4	TWO TO FOUR YEARS
		909.137-018	TRUCK SUPERVISOR	4 3 4	FOUR TO TEN YEARS
49.0306	MARINE MAINTENANCE	661.131-010	LOFT WORKER, HEAD	4 4 3	FOUR TO TEN YEARS
		806.131-010	SUPERVISOR, ALUMINUM BOAT ASSEMBLY	4 3 3	FOUR TO TEN YEARS
		806.131-018	SUPERVISOR, BOAT OUTFITTING	4 3 2	FOUR TO TEN YEARS
		806.131-030	SUPERVISOR, RIGGER	4 3 2	FOUR TO TEN YEARS
		806.134-014	SUPERVISOR, FIBERGLASS BOAT ASSEMBL	4 3 4	FOUR TO TEN YEARS
49.0308	SAILORS AND DECKHANDS	911.131-010	BOATSWAIN	4 2 3	TWO TO FOUR YEARS

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OCCUPATION: 7300

MACHINE SETUP OPERATORS

These workers set up and operate machines that make or process various kinds of products. They may set up textile machines that knit, weave, or treat fabrics. Others may set up machines that perform printing or woodworking operations. Some are responsible for metal or plastic processing or fabricating machines. Operators read work orders, install attachments, adjust settings, and may control operations. They examine work, clean and oil machines, and replace worn parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7310

METALWORKING AND PLASTIC WORKING MACHINE SETUP OPERATORS

These workers set up and operate machines that process metal and plastic. They may set up machines that shape products by extruding or molding processes. Others may be responsible for machines that fit parts together, weld metal, or electroplate objects. Workers read work orders, install machine attachments, adjust settings, and may control machine operations. They examine finished work-pieces, clean and oil machines, and replace broken or worn parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7312

LATHE AND TURNING MACHINE SETUP OPERATORS

These workers set up and operate lathes and other machines to shape parts from metal workpieces. They read blueprints and layout sheets to determine the machine tools and settings required. They use handtools to install the required machine attachments, and then lift or hoist a workpiece onto the machine. They carefully check the position of the workpiece and then move a control to feed the machine cutting tool along its surfaces. They also release coolant on the tool and workpiece as the machine operates.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	619.362-018	SPINNER, HAND	4 3 3	TWO TO FOUR YEARS
47.0408	WATCH REPAIR	604.260-010	SCREW-MACHINE SET-UP OPERATOR, SWIS	4 3 3	TWO TO FOUR YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	604.260-010	SCREW-MACHINE SET-UP OPERATOR, SWIS	4 3 3	TWO TO FOUR YEARS
		604.280-010	ENGINE-LATHE SET-UP OPERATOR, TOOL	4 4 4	TWO TO FOUR YEARS
		604.280-014	SCREW-MACHINE SET-UP OPERATOR, MULT	4 3 3	FOUR TO TEN YEARS
		604.280-018	SCREW-MACHINE SET-UP OPERATOR, SING	4 3 3	TWO TO FOUR YEARS
		604.360-010	SETTER, AUTOMATIC-SPINNING LATHE	4 3 3	ONE TO TWO YEARS
		604.380-010	CHUCKING-MACHINE SET-UP OPERATOR	4 4 4	ONE TO TWO YEARS
		604.380-014	CHUCKING-MACHINE SET-UP OPERATOR, M	4 4 4	ONE TO TWO YEARS
		604.380-018	ENGINE-LATHE SET-UP OPERATOR	4 4 4	ONE TO TWO YEARS
		604.380-022	SCREW-MACHINE SET-UP OPERATOR, PROD	3 3 3	SIX TO 12 MONTHS
		604.380-026	TURRET-LATHE SET-UP OPERATOR	4 4 4	ONE TO TWO YEARS
		604.682-014	THREADING-MACHINE OPERATOR	3 3 3	SIX TO 12 MONTHS
		609.380-014	THREADING-MACHINE SETTER	4 3 3	ONE TO TWO YEARS
		620.682-010	BRAKE-DRUM-LATHE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	619.362-022	SPINNER, HYDRAULIC	4 3 3	ONE TO TWO YEARS

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OCCUPATION: 7313

MILLING AND PLANING MACHINE SETUP OPERATORS

These people set up and operate machines to shape metal workpieces into items, such as molds, tool and die parts, and car and aircraft parts. They follow blueprints or work orders to determine the operations required. They select, install, and adjust machine attachments, such as cams, templates, and cutters. They move controls to position tools against the workpieces or to feed the workpieces through the machine cutter. They start the machines, watch them operate, and make adjustments when necessary. They may use gauges or other devices to measure finished pieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
47.0408	WATCH REPAIR	605.682-026	TOOTH CUTTER, ESCAPE WHEEL	3	2 2	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	605.280-010	MILLING-MACHINE SET-UP OPERATOR 1	4	4 3	TWO TO FOUR YEARS
		605.280-014	PROFILING-MACHINE SET-UP OPERATOR 1	4	3 3	TWO TO FOUR YEARS
		605.280-018	PROFILING-MACHINE SET-UP OPERATOR,	4	4 3	TWO TO FOUR YEARS
		605.282-010	MILLING-MACHINE SET-UP OPERATOR 2	4	4 3	TWO TO FOUR YEARS
		605.282-014	PLANER SET-UP OPERATOR, TOOL	4	3 3	TWO TO FOUR YEARS
		605.282-018	PLANER-TYPE-MILLING-MACHINE SET-UP	4	3 3	TWO TO FOUR YEARS
		605.382-010	BROACHING-MACHINE SET-UP OPERATOR	3	3 2	THREE TO SIX MONTHS
		605.382-014	ENGRAVER, TIRE MOLD	3	3 2	SIX TO 12 MONTHS
		605.382-018	KEYSEATING-MACHINE SET-UP OPERATOR	3	3 2	THREE TO SIX MONTHS
		605.382-022	PANTOGRAPH-MACHINE SET-UP OPERATOR	3	3 3	TWO TO FOUR YEARS
		605.382-026	PROFILING-MACHINE SET-UP OPERATOR 2	3	2 2	SIX TO 12 MONTHS
		605.382-030	ROTARY-HEAD-MILLING-MACHINE SET-UP	4	3 3	TWO TO FOUR YEARS
		605.382-034	ROUTER OPERATOR	3	3 2	ONE TO TWO YEARS
		605.382-038	SHAPER SET-UP OPERATOR, TOOL	4	3 3	ONE TO TWO YEARS
		605.382-042	THREAD-MILLING-MACHINE SET-UP OPERA	3	3 2	ONE TO TWO YEARS
		605.482-010	STEEL-WOOL-MACHINE OPERATOR	3	3 3	SIX TO 12 MONTHS
		605.682-010	BARREL-RIB MATTING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		605.682-022	SCALPER OPERATOR	3	2 2	THREE TO SIX MONTHS
		605.682-026	TOOTH CUTTER, ESCAPE WHEEL	3	2 2	THREE TO SIX MONTHS

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OCCUPATION: 7314

PUNCHING AND SHEARING MACHINE SETUP OPERATORS

These people set up and operate machines that cut, shape, and punch holes in metal workpieces. They follow blue prints or work orders to install and adjust cutting dies, blades, and other machine attachments. They test and adjust machine feeds, stops, and guides. They position workpieces in the machines and start the machines. They also may take machines apart to remove defective parts or units. They use handtools, and may use measuring devices to check the dimensions of finished pieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	615.280-010	SLITTER SERVICE AND SETTER	4 3 3	ONE TO TWO YEARS
48.0504	METAL FABRICATION	615.280-010	SLITTER SERVICE AND SETTER	4 3 3	ONE TO TWO YEARS
		615.482-010	ANGLE SHEAR OPERATOR	3 2 2	30 TO 90 DAYS
		615.482-018	IRONWORKER-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		615.482-022	PUNCH-PRESS OPERATOR 1	3 2 1	SIX TO 12 MONTHS
		615.482-026	PUNCH-PRESS OPERATOR, AUTOMATIC	3 3 2	SIX TO 12 MONTHS
		619.380-014	PUNCH-PRESS SETTER	3 2 3	ONE TO TWO YEARS
48.0506	SHEET METAL	615.380-010	SHEAR SETTER	4 3 4	ONE TO TWO YEARS
		615.482-014	DUPLICATOR-PUNCH OPERATOR	4 3 3	SIX TO 12 MONTHS
		615.482-022	PUNCH-PRESS OPERATOR 1	3 2 1	SIX TO 12 MONTHS
		615.482-026	PUNCH-PRESS OPERATOR, AUTOMATIC	3 3 2	SIX TO 12 MONTHS
		615.482-034	SHEAR OPERATOR 1	3 2 2	THREE TO SIX MONTHS
		615.662-010	SLITTING-MACHINE OPERATOR 2	3 2 2	SIX TO 12 MONTHS
		615.682-010	FLYING-SHEAR OPERATOR	3 3 2	SIX TO 12 MONTHS

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OCCUPATION: 7315

EXTRUDING AND DRAWING MACHINE SETUP OPERATORS

These workers set up and operate machines that force plastic, rubber, or hot metal through a die to form rods, tubes, and similar shaped products. They install dies, screws, and sizing rings in the machines, and connect hoses that provide steam, water, air, or oil to the die. They load the machines with the material to be processed, and set controls to regulate air pressure, sizing rings, and temperature. They check finished products for defects and may measure them or test them with an acid bath or impact tester.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	614.380-010	EXTRUSION-PRESS ADJUSTER	3 3 2	SIX TO 12 MONTHS
		614.382-010	WIRE DRAWER	3 2 1	THREE TO SIX MONTHS
		614.482-010	DRAW-BENCH OPERATOR	3 1 2	THRE TO SIX MONTHS
		614.482-014	EXTRUDER OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0604	PLASTICS	614.482-018	EXTRUSION-PRESS OPERATOR 1	3 3 2	SIX TO 12 MONTHS
		557.382-010	EXTRUDER OPERATOR	3 2 2	SIX TO 12 MONTHS

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OCCUPATION: 7316

ROLLING MACHINE SETUP OPERATORS

These people set up and operate machines that move pieces of metal between rollers to press them to a desired thickness, shape, or finish. They follow job orders to determine how machines should be set up. Then select, install, and adjust machine attachments and regulate the speed at which the machine operates. They inspect finished workpieces for defects, and may use gauges and meters measure the metal pieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0502	FOUNDRY WORK	613.360-014	ROLL-TUBE SETTER	3 2 1	ONE TO TWO YEARS
		613.361-010	GUIDE SETTER	3 2 2	ONE TO TWO YEARS
		613.382-014	FINISHER	3 2 2	ONE TO TWO YEARS
		613.682-022	STRIP ROLLER	3 3 2	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	613.360-010	ROLL-FORMING-MACHINE SET-UP MECHANIC	4 3 2	ONE TO TWO YEARS
		613.360-018	TIN ROLLER, HOT MILL	4 3 3	TWO TO FOUR YEARS
		613.462-010	COLD-MILL OPERATOR	4 3 3	TWO TO FOUR YEARS
		613.462-018	ROLLING-MILL OPERATOR	3 2 1	ONE TO TWO YEARS
		613.482-010	MILL OPERATOR, ROLLS	3 3 2	THREE TO SIX MONTHS
		613.482-014	PIERCING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	617.480-010	JOB SETTER, SPLINE-ROLLING MACHINE	3 2 3	SIX TO 12 MONTHS
		617.482-014	FORMING-ROLL OPERATOR 1	3 2 2	THREE TO SIX MONTHS
		617.682-022	SETTER, COLD-ROLLING MACHINE	4 3 3	TWO TO FOUR YEARS
48.0506	SHEET METAL	617.482-018	ROLL-FORMING-MACHINE OPERATOR 1	3 3 3	SIX TO 12 MONTHS

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OCCUPATION: 7317

PRESS AND BRAKE MACHINE SETUP OPERATORS

These workers set up and operate power presses and brakes used to bend, form, and stretch metal. They select and install dies (devices for cutting or forming metal). They also adjust the machine ram or punch (devices used for crushing, driving, or forcing). They follow blueprints to shape metal workpieces into products or parts. They use measuring devices, handtools, and other devices (such as a hand sledge, crane, or torch) to set up the machines, position workpieces, and form and finish products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	617.380-010	KICK PRESS SETTER	3 2 3	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	617.260-010	PRESS OPERATOR, HEAVY DUTY	3 2 2	TWO TO FOUR YEARS
		617.360-014	SWAGING-MACHINE ADJUSTER	3 2 3	ONE TO TWO YEARS
		617.380-010	KICK PRESS SETTER	3 2 3	SIX TO 12 MONTHS
		617.382-010	TUBE BENDER, BRASS-WIND INSTRUMENTS	3 2 2	THREE TO SIX MONTHS
		617.480-014	PRESS SETTER	3 2 2	SIX TO 12 MONTHS
48.0506	SHEET METAL	617.482-010	BENDING-MACHINE OPERATOR 1	3 2 2	SIX TO 12 MONTHS
		617.360-010	BRAKE OPERATOR 1	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 7318

DRILLING AND BORING MACHINE SETUP OPERATORS

These workers set up and operate machines that drill holes in metal parts. They study job orders or blueprints to determine the machine required, tools to be used, and order in which tasks should be done. They lift workpieces onto the machine by hand or with a hoist, and then position and fasten them. They adjust the machine for cutting speed and feed rate, and mount the required cutting tools in the machine. They start the machine and read gauges and dials to check each workpiece as it is processed. They also use precision measuring devices to check the finished pieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	606.280-010	BORING-MACHINE SET-UP OPERATOR, JIG	4	4 3	TWO TO FOUR YEARS
		606.280-014	BORING-MILL SET-UP OPERATOR, HORIZO	4	4 3	TWO TO FOUR YEARS
		606.380-010	DRILL-PRESS SET-UP OPERATOR, MULTIP	4	4 3	ONE TO TWO YEARS
		606.380-014	DRILL-PRESS SET-UP OPERATOR, RADIAL	4	4 3	ONE TO TWO YEARS
		606.380-018	DRILL-PRESS SET-UP OPERATOR, RADIAL	4	4 3	ONE TO TWO YEARS
		606.682-010	BORING-MACHINE OPERATOR	3	3 3	SIX TO 12 MONTHS
		606.682-018	DRILL-PRESS SET-UP OPERATOR, SINGLE	3	3 2	THREE TO SIX MONTHS
		606.682-022	TAPPER OPERATOR	3	3 3	THREE TO SIX MONTHS

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OCCUPATION: 7319

FORGING MACHINE SETUP OPERATORS

These people set up and operate machines that press and roll hot or cold metals into various shapes. They follow blueprints or work orders to set up the machines. They use handtools and measuring devices to install and adjust the required machine attachments and set the machine guides. They position heated or cold metal stock on the machine to be forced through machine tools and shaped into metal products or parts. They may use gauges to check the dimensions of forged pieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	610.462-010	DROP-HAMMER OPERATOR	3 2 2	ONE TO TWO YEARS
		611.462-010	UPSETER	3 2 2	SIX TO 12 MONTHS
		611.482-010	FORGING-PRESS OPERATOR 1	3 2 2	SIX TO 12 MONTHS
		611.682-010	STEEL-SHOT-HEADER OPERATOR	5 1 2	THREE TO SIX MONTHS
		612.260-010	FASTENER TECHNOLOGIST	4 3 3	TWO TO FOUR YEARS
		612.462-010	MULTI-OPERATION-MACHINE OPERATOR	3 3 2	ONE TO TWO YEARS
		612.462-014	NUT FORMER	3 3 2	SIX TO 12 MONTHS
		612.662-010	SPIKE-MACHINE OPERATOR	3 2 1	TWO TO FOUR YEARS
		612.682-010	BUCKSHOT-SWAGE OPERATOR	3 2 2	THREE TO SIX MONTHS
		612.682-014	FORGING-ROLL OPERATOR	3 2 2	THREE TO SIX MONTHS
48.0507	TOOL AND DIE MAKING	612.360-010	DIE SETTER	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7322

GRINDING, ABRADING, BUFFING, AND POLISHING MACHINE SETUP OPERATORS

These workers set up and operate machines that grind, smooth, polish, and sharpen metal objects. They may work with one machine or set up a line of machines for others to operate. They follow blueprints or job orders to prepare the machines for operation. They use handtools and precision gauges to install and adjust machine units. They may operate machines to test the setup or to process products or parts. They move controls to regulate the machine action. They check finished parts for defects and may train new workers to use the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	716.360-010	SIZER, MACHINE	3 3 3	TWO TO FOUR YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	628.382-014	SHEAR-GRINDER OPERATOR	3 2 3	ONE TO TWO YEARS
		629.382-010	MACHINE TESTER	3 3 3	THREE TO SIX MONTHS
		629.682-010	ROLL GRINDER	3 2 3	SIX TO 12 MONTHS
47.0408	WATCH REPAIR	603.482-010	DEBURRER, STRIP	3 2 2	ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	601.482-010	PROFILE-GRINDER TECHNICIAN	3 3 3	ONE TO TWO YEARS
		602.360-010	GRINDER SET-UP OPERATOR, GEAR, TOOL	4 3 3	TWO TO FOUR YEARS
		602.382-034	GRINDER, GEAR	3 3 3	SIX TO 12 MONTHS
		603.240-010	GRINDER SET-UP OPERATOR, THREAD TOO	4 4 3	TWO TO FOUR YEARS
		603.280-026	GRINDER SET-UP OPERATOR, JIG	4 4 3	TWO TO FOUR YEARS
		603.280-034	JOB SETTER, HONING	4 3 3	ONE TO TWO YEARS
		603.360-010	BUFFING-LINE SET-UP WORKER	3 2 2	SIX TO 12 MONTHS
		603.380-010	GRINDER MACHINE SETTER	4 3 3	ONE TO TWO YEARS
		603.382-010	BUFFING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		603.382-014	GRINDER SET-UP OPERATOR, CENTERLESS	3 3 3	SIX TO 12 MONTHS
		603.382-018	HONING-MACHINE SET-UP OPERATOR	3 2 2	SIX TO 12 MONTHS
		603.382-022	HONING-MACHINE SET-UP OPERATOR, 100	4 3 3	ONE TO TWO YEARS
		603.382-026	LAPPING-MACHINE SET-UP OPERATOR	3 2 2	ONE TO TWO YEARS
		603.482-010	DEBURRER, STRIP	3 2 2	ONE TO TWO YEARS
		603.482-014	GRINDER SET-UP OPERATOR, EXTERNAL	3 3 3	THREE TO SIX MONTHS
		603.482-018	GRINDER SET-UP OPERATOR, INTERNAL &	3 3 3	THREE TO SIX MONTHS
		603.482-022	GRINDER SET-UP OPERATOR, SURFACE	3 3 2	THREE TO SIX MONTHS
603.482-026	GRINDER SET-UP OPERATOR, THREAD	3 3 3	ONE TO TWO YEARS		
603.482-034	HONING-MACHINE OPERATOR, PRODUCTION	3 2 2	THREE TO SIX MONTHS		
603.682-010	BUFFING-MACHINE OPERATOR, SILVERWAR	3 2 2	THREE TO SIX MONTHS		
603.682-014	KNIFE GRINDER	4 2 2	SIX TO 12 MONTHS		
603.682-022	MIRROR-FINISHING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS		
603.682-026	POLISHING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS		
609.682-026	NICKING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS		
628.382-014	SHEAR-GRINDER OPERATOR	3 2 3	ONE TO TWO YEARS		

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7322 GRINDING, ABRADING, BUFFING, AND POLISHING MACHINE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		629.382-010	MACHINE TESTER	3 3 3	THREE TO SIX MONTHS
		629.682-010	ROLL GRINDER	3 2 3	SIX TO 12 MONTHS
		692.260-010	MACHINE SETTER	3 3 3	ONE TO TWO YEARS
48.0507	TOOL AND DIE MAKING	601.482-010	PROFILE-GRINDER TECHNICIAN	3 3 3	ONE TO TWO YEARS

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OCCUPATION: 7324

LAPPING AND HONING MACHINE SETUP OPERATORS

These workers set up and operate machines to lap or hone metal parts. They follow blueprints or instructions to prepare the machines for work. They position and dump workpieces on the machine, using handtools. They move controls to set the machine speed, pressure, and cycle time. They brush or spray a lapping compound on the workpiece, start the machine, and adjust machine controls as required. When work is complete, they check finished parts for defects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0408	WATCH REPAIR	602.482-010	GEAR-LAPPING-MACHINE OPERATOR	3 3 3	SIX TO 12 MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	602.482-010	GEAR-LAPPING-MACHINE OPERATOR	3 3 3	SIX TO 12 MONTHS

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OCCUPATION: 7326

NUMERICAL CONTROL MACHINE SETUP OPERATORS

These workers set up and operate machines that can be programmed to cut and shape workpieces automatically. They read job orders or blueprints, select the correct program for the work to be done, and install the required tools. They may lift workpieces onto the machine, using their hands or a hoist. When they finish workpieces, they stop the machine and check each machined piece for proper shape or cut. They also replace worn or broken cutting tools. These workers use machinist handtools and precision measuring devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	605.360-010	ROUTER SET-UP OPERATOR, NUMERICAL C	4	3 3	ONE TO TWO YEARS
		605.380-010	MILLING-MACHINE OPERATOR, NUMERICAL	3	3 2	TWO TO FOUR YEARS
		606.362-010	DRILL-PRESS OPERATOR, NUMERICAL CON	3	3 3	ONE TO TWO YEARS
		606.382-014	JIG-BORING MACHINE OPERATOR, NUMERI	4	4 3	TWO TO FOUR YEARS
		609.662-010	NUMERICAL-CONTROL-MACHINE OPERATOR	3	3 3	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	617.280-010	SHOT-PEENING OPERATOR, TAPE CONTROL	4	3 4	ONE TO TWO YEARS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7329

METALWORKING AND PLASTICWORKING MACHINE SETUP OPERATORS, MISCELLANEOUS

These workers set up and operate machines used to shape or form metal or plastic parts for products. They generally work with several types of machines, and may set up a variety of machines for other workers to operate. They follow blueprints and charts to prepare the machines for operations. They install and adjust machine units and repair or replace faulty parts. They operate the machines by moving controls, such as switches and valves. They may place stock in the machine by hand or with a hoist. They also measure finished parts, sharpen tools, and oil machinery units as required.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	690.482-010	SAWYER	3	2 2	SIX TO 12 MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.360-010	SCALE ASSEMBLY SET-UP WORKER	4	4 3	TWO TO FOUR YEARS
47.0402	GUNSMITHING	609.260-010	GUNSMITH, BALLISTICS LABORATORY	4	4 4	FOUR TO TEN YEARS
47.0408	WATCH REPAIR	600.380-022	MACHINE SETTER	4	4 3	TWO TO FOUR YEARS
48.0502	FOUNDRY WORK	700.684-046	JIGSAWYER	2	1 1	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	505.380-010	METAL SPRAYER, MACHINED PARTS	4	3 3	ONE TO TWO YEARS
		600.260-010	ENGINEERING MODEL MAKER	4	4 3	FOUR TO TEN YEARS
		600.260-014	EXPERIMENTAL MECHANIC	4	4 3	FOUR TO TEN YEARS
		600.260-018	MODEL MAKER, FIREARMS	4	4 3	FOUR TO TEN YEARS
		600.380-010	FIXTURE MAKER	4	3 3	TWO TO FOUR YEARS
		600.380-014	JOB SETTER	4	4 3	TWO TO FOUR YEARS
		600.380-018	MACHINE SET-UP OPERATOR	4	4 3	ONE TO TWO YEARS
		600.380-022	MACHINE SETTER	4	4 3	TWO TO FOUR YEARS
		601.280-054	TOOL-MACHINE SET-UP OPERATOR	4	4 3	TWO TO FOUR YEARS
		602.280-010	GEAR-CUTTING-MACHINE SET-UP OPERATO	4	4 3	TWO TO FOUR YEARS
		602.380-010	GEAR-CUTTING-MACHINE SET-UP OPERATO	4	3 3	ONE TO TWO YEARS
		602.382-010	GEAR HOBBER SET-UP OPERATOR	3	3 3	SIX TO 12 MONTHS
		602.382-014	GEAR-GENERATOR SET-UP OPERATOR, SPI	3	3 3	SIX TO 12 MONTHS
		602.382-018	GEAR-GENERATOR SET-UP OPERATOR, STR	3	3 3	SIX TO 12 MONTHS
		602.382-022	GEAR-MILLING-MACHINE SET-UP OPERATO	3	3 3	SIX TO 12 MONTHS
		602.382-026	GEAR-SHAPER SET-UP OPERATOR	3	3 3	SIX TO 12 MONTHS
		602.382-030	GEAR-SHAVER SET-UP OPERATOR	3	3 3	ONE TO TWO YEARS
		607.382-010	CONTOUR-BAND-SAW OPERATOR, VERTICAL	3	3 2	THREE TO SIX MONTHS
		607.682-010	CUT-OFF-SAW OPERATOR, METAL	3	2 2	THREE TO SIX MONTHS
		607.682-018	SAW OPERATOR	3	2 2	THREE TO SIX MONTHS
		609.260-010	GUNSMITH, BALLISTICS LABORATORY	4	4 4	FOUR TO TEN YEARS
		609.380-010	ELECTRICAL-DISCHARGE-MACHINE SET-UP	4	4 4	TWO TO FOUR YEARS
		609.482-014	STRAIGHT-PIN-MAKING-MACHINE OPERATO	3	3 3	SIX TO 12 MONTHS

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7329 MISCELLANEOUS METALWORKING AND PLASTIC WORKING MACH (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		700.682-018	PROFILE-SAW OPERATOR	3 2 2	30 TO 90 DAYS
48.0504	METAL FABRICATION	616.260-014	MULTI-OPERATION-FORMING-MACHINE SET	4 3 3	TWO TO FOUR YEARS
		616.360-018	MACHINE OPERATOR 1	4 3 3	ONE TO TWO YEARS
		616.360-022	MACHINE SETTER	4 3 3	ONE TO TWO YEARS
		616.380-014	JOB SETTER	3 3 3	SIX TO 12 MONTHS
		619.382-010	BULLET-GROOVING-SIZING-AND-LUBRICAT	3 2 2	THREE TO SIX MONTHS
		619.382-018	FOUR-SLIDE-MACHINE OPERATOR 1	4 3 3	SIX TO 12 MONTHS
		619.382-022	TYPE-ROLLING-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
		619.462-010	ROLL-THREADER OPERATOR	3 2 2	SIX TO 12 MONTHS
		619.462-014	TRIMMER OPERATOR	3 2 2	SIX TO 12 MONTHS
		619.682-018	FISHING ACCESSORIES MAKER	3 2 2	THREE TO SIX MONTHS
		619.682-042	SEAMLESS-TUBE ROLLER	3 2 2	SIX TO 12 MONTHS
48.0505	METAL PATTERNMAKING	600.260-010	ENGINEERING MODEL MAKER	4 4 3	FOUR TO TEN YEARS
		600.260-018	MODEL MAKER, FIREARMS	4 4 3	FOUR TO TEN YEARS
48.0507	TOOL AND DIE MAKING	601.280-054	TOOL-MACHINE SET-UP OPERATOR	4 4 3	TWO TO FOUR YEARS
		710.360-010	SCALE ASSEMBLY SET-UP WORKER	4 4 3	TWO TO FOUR YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.684-046	JIGSAWYER	2 1 1	THREE TO SIX MONTHS
48.0604	PLASTICS	690.380-014	MACHINE SETTER-AND-REPAIRER	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 7330

METAL FABRICATING MACHINE SETUP OPERATORS

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 7332

WELDING MACHINE SETUP OPERATORS

These workers set up and operate machines to weld metal parts together. They follow blueprints, layouts, and welding procedures. They measure and mark weld points on workpieces. They use handtools to install and adjust machine attachments, and may design and build special machine fixtures. They also set up or adjust heating equipment, such as gas torches or electric heating units. They start the machines and check machine operations. They also clean, oil, and maintain equipment. They may train workers to use the equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
48.0508	WELDING	810.382-010	WELDING-MACHINE OPERATOR, ARC	4	4	3 ONE TO TWO YEARS
		811.482-010	WELDING-MACHINE OPERATOR, GAS	3	3	2 ONE TO TWO YEARS
		812.360-010	WELDER SETTER, RESISTANCE MACHINE	4	4	3 TWO TO FOUR YEARS
		812.682-010	WELDING-MACHINE OPERATOR, RESISTANCE	4	4	3 ONE TO TWO YEARS
		815.380-010	WELDER SETTER, ELECTRON-BEAM MACHINE	4	3	3 ONE TO TWO YEARS
		815.382-010	WELDING-MACHINE OPERATOR, ELECTRON	4	3	3 ONE TO TWO YEARS

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OCCUPATION: 7333

SOIDERING AND BRAZING MACHINE SETUP OPERATORS

These workers set up and operate machines used to braze or bond together metal parts. They follow blueprints and work orders to set up the machines. They position and adjust machine fixtures and guides and install heating coils or set up gas torches. They load the machines with brazing wire, position workpieces in the machines, and adjust controls to regulate the heating units. After metal parts are bonded, they are cooled then with water or acid baths and then checked.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0508	WELDING	813.360-010	BRAZING-MACHINE SETTER	4 4 3	TWO TO FOUR YEARS
		813.360-014	SETTER, INDUCTION-HEATING EQUIPMENT	3 3 3	SIX TO 12 MONTHS
		813.382-010	BRAZER, INDUCTION	3 3 2	SIX TO 12 MONTHS
		813.382-014	BRAZING-MACHINE OPERATOR	3 3 2	SIX TO 12 MONTHS

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OCCUPATION: 7339

FABRICATING MACHINE SETUP OPERATORS, MISCELLANEOUS

These workers set up and operate machines used to shape and assemble metal parts. They may operate one or several machines, or set up a series of machines for other workers to operate. They follow blueprints and charts to prepare the machines for operation. They install and adjust machine tools, and move controls to regulate machine processes. They may sharpen cutting tools, clean and oil parts, and replace defective units. They may train other workers to operate the machines. They also may use meters and gauges to check the dimensions of sample products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M I	
00.0000	NO CIP ASSIGNED	616.682-014	BALE-TIE-MACHINE OPERATOR	2	1 1	THREE TO SIX MONTHS
		619.360-018	METAL-FABRICATOR APPRENTICE	4	4 3	TWO TO FOUR YEARS
		619.380-018	SPRING REPAIRER, HAND	4	3 3	TWO TO FOUR YEARS
47.0408	WATCH REPAIR	715.660-010	SET-UP WORKER	3	2 3	SIX TO 12 MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	609.280-010	TRIM-MACHINE ADJUSTER	3	2 3	SIX TO 12 MONTHS
		693.380-014	SAMPLE-BODY BUILDER	4	3 3	FOUR TO TEN YEARS
		693.380-018	SAMPLE-BODY-BUILDER APPRENTICE	4	3 3	FOUR TO TEN YEARS
		694.260-010	LOADING-MACHINE TOOL-SETTER	4	3 3	ONE TO TWO YEARS
		694.360-010	PRIMER-CHARGING TOOL SETTER	4	3 3	ONE TO TWO YEARS
		715.660-010	SET-UP WORKER	3	2 3	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	616.260-010	EMBOSsing TOOLSETTER	4	3 2	ONE TO TWO YEARS
		616.260-018	SPRING COILING MACHINE SETTER	4	4 3	TWO TO FOUR YEARS
		616.260-022	TORSION SPRING COILING MACHINE SETT	4	4 3	TWO TO FOUR YEARS
		616.280-010	SPRING MAKER	4	3 3	TWO TO FOUR YEARS
		616.360-010	BODY-MAKER-MACHINE SETTER	3	2 2	ONE TO TWO YEARS
		616.360-014	LOOM SETTER, WIRE WEAVING	4	3 3	TWO TO FOUR YEARS
		616.360-026	MULTI-OPERATION-FORMING-MACHINE OPE	4	3 3	ONE TO TWO YEARS
		616.360-030	SHOTGUN-SHELL-ASSEMBLY-MACHINE ADJU	3	2 2	THREE TO SIX MONTHS
		616.360-034	STRAIGHT-LINE-PRESS SETTER	3	2 2	THREE TO SIX MONTHS
		616.362-010	FABRIC-MACHINE OPERATOR 1	3	3 3	ONE TO TWO YEARS
		616.380-010	FOUR-SLIDE-MACHINE SETTER	3	3 3	ONE TO TWO YEARS
		616.382-014	WIRE WEAVER, CLOTH	3	2 2	TWO TO FOUR YEARS
		616.460-010	NAIL-MAKING-MACHINE SETTER	3	2 3	ONE TO TWO YEARS
		616.482-010	SAFETY-PIN-ASSEMBLING-MACHINE OPERA	3	2 2	SIX TO 12 MONTHS
		616.682-010	ARBOR-PRESS OPERATOR 1	3	1 1	30 TO 90 DAYS
		616.682-018	CAGE MAKER, MACHINE	3	1 1	ONE TO TWO YEARS
		616.682-022	CRIMPING-MACHINE OPERATOR	3	2 2	SIX TO 12 MONTHS
		616.682-026	KICK-PRESS OPERATOR 1	3	2 2	THREE TO SIX MONTHS
		616.682-034	STRANDING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		617.482-022	SPRING FORMER, MACHINE	3	2 1	THREE TO SIX MONTHS

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OCCUPATION: 7339 MISCELLANEOUS FABRICATING MACHINE SETUP OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		619.260-008	ORNAMENTAL-METAL WORKER	4 3 3	FOUR TO TEN YEARS
		619.260-010	ORNAMENTAL-METAL-WORKER APPRENTICE	4 3 3	FOUR TO TEN YEARS
		619.280-010	NEEDLEMAKER	4 4 3	ONE TO TWO YEARS
		619.280-018	SPRING-MANUFACTURING SET-UP TECHNIC	4 4 4	TWO TO FOUR YEARS
		619.360-010	DRIVEMATIC-MACHINE OPERATOR	4 3 3	ONE TO TWO YEARS
		619.360-014	METAL FABRICATOR	4 4 3	TWO TO FOUR YEARS
		619.380-010	HIGH-ENERGY-FORMING WORKER	4 3 3	ONE TO TWO YEARS
		699.482-010	RIVETING-MACHINE OPERATOR 1	3 2 3	SIX TO 12 MONTHS
		806.682-010	METAL-BONDING PRESS OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0506	SHEET METAL	816.482-010	THERMAL-CUTTING-MACHINE OPERATOR	3 3 3	SIX TO 12 MONTHS
48.0508	WELDING	816.482-010	THERMAL-CUTTING-MACHINE OPERATOR	3 3 3	SIX TO 12 MONTHS

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OCCUPATION: 7340

METAL AND PLASTIC PROCESSING MACHINE SETUP OPERATORS

These workers set up and operate machines that process plastics or metal products. They may set up machines that cut, shape, and fit together metal or plastic parts. Others set up machines that heat metal to harden or temper it, or to mold or cast it into objects. Some set up plating or coating machines. Workers read work orders, install and adjust attachments, adjust temperatures and other settings, and load materials. They watch operations and check work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7342

MOLDING AND CASTING MACHINE SETUP OPERATORS

These workers set up and operate machines to mold or cast plastic or metal materials to make objects of a particular shape. Some use equipment to heat metal or plastic to a liquid form and shape it in molds. Some cast metal parts using a machine that forces molten metal into special dies. Some set up machines to compress plastic into forms or molds. These workers use handtools and gauges to install and adjust machine attachments. They load materials into the machines, operate machine controls, and check sample products for defects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	556.380-010 MOLD SETTER	3 2 2 ONE TO TWO YEARS
	556.380-014 PREFORM-MACHINE OPERATOR	3 1 2 THREE TO SIX MONTHS
	556.382-014 INJECTION-MOLDING-MACHINE OPERATOR	3 2 2 SIX TO 12 MONTHS
	556.682-014 COMPRESSION-MOLDING-MACHINE OPERATOR	3 2 2 SIX TO 12 MONTHS
48.0502 FOUNDRY WORK	502.482-018 ROTOR CASTING-MACHINE OPERATOR	3 2 2 SIX TO 12 MONTHS
	502.682-014 CASTING-MACHINE OPERATOR	3 2 2 THREE TO SIX MONTHS
	514.360-010 DIE-CASTING-MACHINE SETTER	4 3 3 TWO TO FOUR YEARS
	514.382-010 DIE-CASTING-MACHINE OPERATOR 1	3 2 2 SIX TO 12 MONTHS
	518.380-010 SETTER, MOLDING-AND-COREMAKING MACH	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 7343

PLATING AND COATING MACHINE SETUP OPERATORS

These workers set up and operate equipment to cover objects with metal or other materials. They may plate or coat objects to protect them, build them up, or make them look or work better. They fill machine tanks with coating solutions, and may clean and rinse objects to be coated by placing or dipping in baths. They load the objects into the machines and adjust controls to regulate machine processes. Once objects are coated, they may test, wash, and polish them or measure their dimensions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	500.362-010	ELECTROGALVANIZING-MACHINE OPERATOR	4 3 3	ONE TO TWO YEARS
		500.380-010	PLATER	4 3 3	TWO TO FOUR YEARS
		500.380-014	PLATER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		501.362-010	COATING-MACHINE OPERATOR	3 3 3	TWO TO FOUR YEARS
		505.382-010	METAL-SPRAYING-MACHINE OPERATOR, AU	4 3 2	TWO TO FOUR YEARS
		509.382-010	COATER OPERATOR	3 3 2	ONE TO TWO YEARS
		509.462-010	ALODIZE-MACHINE OPERATOR	3 3 2	SIX TO 12 MONTHS
		534.380-010	CARBON-PAPER-COATING-MACHINE SETTER	3 3 3	SIX TO 12 MONTHS

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OCCUPATION: 7344

HEATING EQUIPMENT SETUP OPERATORS

These workers set up and operate equipment used to heat metals. Often, they set up a series of machines for use by other workers. They install machine attachments and determine the temperature and time required to process products. They may light and adjust gas burners or set switches to control electric heating coils. They may mount workpieces in machines and start feeding devices that move the pieces through heat. They also replace worn machine parts and may teach new workers to operate the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.360-010	FLAME-ANNEALING-MACHINE SETTER	4 3 3	ONE TO TWO YEARS
		504.380-010	FLAME-HARDENING-MACHINE SETTER	4 3 3	TWO TO FOUR YEARS
		504.380-014	INDUCTION-MACHINE SETTER	3 3 3	TWO TO FOUR YEARS

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OCCUPATION: 7349

MISCELLANEOUS METAL AND PLASTIC PROCESSING MACHINE SETUP OPERATORS

These people set up and operate machines used to cut, shape, and fit together metal or plastic parts. For example, some set up work with automatic machines that cut and shape metal to make bullets. They select and install the required dies and cutting tools. They adjust the machine pressure and cutting tools, and load the machine with material to be processed. They start the machine, examine and inspect samples for accuracy.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	694.682-010	BULLET-ASSEMBLY-PRESS SETTER-OPERAT	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 7430

WOODWORKING MACHINE SETUP OPERATORS

These workers set up and operate machines that process wood. They may set up lathes that shape furniture legs or run machines that cut veneers. Others set up and run routers that cut grooves or designs, jointers that smooth wood to be joined, sanders, and saws. They read work orders, install attachments and blades, adjust machines settings, and feed materials into machines. They control machine processes, check work for defects, and sharpen cutting edges.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY ICWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7431

LATHE AND TURNING MACHINE SETUP OPERATORS

These workers set up and operate machines used to cut and shape articles from rough woodstock. They study blueprints, patterns, and job orders to determine the size and shape the articles should be. They select the proper knives or cutting heads and install them in the machine. They also may install devices that control the rotation and shape of the stock being cut. They secure the woodstock in a holding device, start the machine, and move controls to regulate the action of the machine. They check the dimensions of shaped products, using a template or other measuring device.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	604.280-022	TURRET-LATHE SET-UP OPERATOR, TOOL	4	4	4 TWO TO FOUR YEARS
43.0703	MILLWORK AND CABINET MAKING	664.382-010	SWING-TYPE-LATHE OPERATOR	3	3	2 THREE TO SIX MONTHS
		664.662-010	VENEER-LATHE OPERATOR	3	1	1 THREE TO SIX MONTHS
		665.382-018	WOOD-CARVING-MACHINE OPERATOR	3	2	2 THREE TO SIX MONTHS
		665.682-010	DOWEL-MACHINE OPERATOR	3	2	1 SIX TO 12 MONTHS
		761.682-018	SPINDLE CARVER	3	2	2 SIX TO 12 MONTHS

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OCCUPATION: 7432

ROUTER AND PLANER MACHINE SETUP OPERATORS

These people set up and operate machines to cut grooves, notches, and designs in wood. They also smooth the surfaces of wood pieces before they are joined, fastened, or finished. They select and install cutting heads and adjust knives, guides, and stops, according to the size and shape of cuts to be made. They use measuring devices to check machine settings and the size of the stock. They may lay out and mark cuts to be made on the stock. They may clamp stock in a machine holding device or place it on a conveyor that leads to the machine. They may move stock under rotating bits to cut specified designs. These workers use handtools and may work from blueprints, drawings, or samples to set up and adjust the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GEO-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	665.682-038	VENEER JOINTER	3	2	2	THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	665.382-010	CHUCKING-MACHINE OPERATOR	3	2	1	SIX TO 12 MONTHS
		665.482-014	MORTISING-MACHINE OPERATOR	3	3	2	THREE TO SIX MONTHS
		665.682-022	PLANER OPERATOR	3	2	2	THREE TO SIX MONTHS
		665.682-030	ROUTER OPERATOR	3	2	2	THREE TO SIX MONTHS
		665.682-034	SHAPER OPERATOR	3	2	2	SIX TO 12 MONTHS
		669.382-010	DADO OPERATOR	3	2	1	SIX TO 12 MONTHS
		669.382-014	RAFTER-CUTTING-MACHINE OPERATOR	3	3	2	THREE TO SIX MONTHS

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OCCUPATION: 7433

SAWING MACHINE SETUP OPERATOR

These workers set up and operate machines used to saw, shred, or shape wood. They install the required knives, saw blade, or cutters in the machine and adjust the machine cutterhead and table for the size of stock and cuts to be made. They bolt or clamp a jig (holding and guiding tool) to the machine table, place stock in the jig, and push the table into position for the sawing process. They operate controls to advance and regulate the cutterhead that shapes the wood.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	663.380-010	KNIFE SETTER	3	1	2 THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	669.682-026	CHUCKING-AND-SAWING-MACHINE OPERATOR	3	2	1 THREE TO SIX MONTHS
		669.682-030	CORNER-BRACE-BLOCK-MACHINE OPERATOR	3	2	2 THREE TO SIX MONTHS

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OCCUPATION: 7434

SANDING MACHINE SETUP OPERATORS

These workers set up and operate machines used to sand and smooth wood. They read work tickets to determine the grade, type, and amount of woodstock to be sanded. They may build sanding forms for use in the machine, or they may install from existing forms. They wrap sandpaper around the form or around machine sanding drums, and then turn handwheels to control the speed and tension of sanding belts. They may position stock in the machines or feed it between machine rollers. They inspect, feel, and may measure finished stock to check its smoothness and dimensions.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
48.0703	MILLWORK AND CABINET MAKING	662.682-010	MOLDING SANDER	3 2 1 THREE TO SIX MONTHS
		662.682-014	MULTIPLE-DRUM SANDER	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 7435

SHAPING AND JOINING MACHINE SETUP OPERATORS

These workers set up and operate machines to plane, shape, and groove wooden parts so that they can be joined together. They read work tickets and examine pattern shapes to determine the type of woodstock to use and the machine settings required. They select and install the proper cutting heads and patterns, using wrenches and gauges. They adjust the machines cutting knives, guides, pressure bars and table level, and insert woodstock into a feed unit. They watch the stock being cut and carefully measure each finished piece.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
48.0703	MILLWORK AND CABINET MAKING	665.682-018	MOLDER OPERATOR	3 2 2 SIX TO 12 MONTHS

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OCCUPATION: 7439

MISCELLANEOUS WOODWORKING MACHINE OPERATORS

These workers set up and operate machines used to cut, shape, and fasten together wooden parts. They study blueprints, drawings, samples, or work orders to determine the tools and set up required. They install and adjust knives, saws, or other cutting tools. They adjust machine guides, pressure arms, and stops. They may position wooden stock in the machine to be cut, or feed the stock into a machine hopper. They use handtools and measuring devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME
47.0408	WATCH REPAIR	693.380-010	MODEL MAKER	4 3 4 TWO TO FOUR YEARS
48.0702	FURNITURE MAKING	669.682-038	DOUBLE-END-TRIMMER-AND-BORING-MACHI	3 2 3 THREE TO SIX MONTHS
		669.682-058	NAILING-MACHINE OPERATOR	2 1 1 THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	665.682-026	PROFILE-SHAPER OPERATOR, AUTOMATIC	3 2 1 SIX TO 12 MONTHS
		666.382-010	BORING-MACHINE OPERATOR	3 3 2 THREE TO SIX MONTHS
		669.280-010	MACHINE SETTER	4 3 3 TWO TO FOUR YEARS
		669.380-018	PIPE-AND-TANK FABRICATOR	3 2 2 TWO TO FOUR YEARS
		669.382-018	TENONER OPERATOR	4 3 3 SIX TO 12 MONTHS
		669.662-010	BOX-BLANK-MACHINE OPERATOR	3 2 2 THREE TO SIX MONTHS
		669.682-042	DOWEL-INSERTING-MACHINE OPERATOR	2 1 1 THREE TO SIX MONTHS

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OCCUPATION: 7440

PRINTING MACHINE SETUP OPERATORS

These workers set up and operate machines used in printing operations. They may run machines that produce typeset materials, emboss and engrave paper, or print pictures. Others run machines or cameras that transfer letters or designs to cloth or paper, or perform other printing functions such as processing name tags or books. They read work orders, set up and adjust machines, load materials, watch machine operations, and check finished work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7443

PRINTING PRESS SET UP OPERATORS

These people set up and operate printing presses to produce printed material. For example, they may print type-set material, engrave designs or lettering, punch holes in data cards, or print pictures or other subject matter. They follow job orders to select the required materials, and prepare the machine for operation. They fill ink containers and adjust press controls and feeding devices. They may insert typeset in the machine, or install engraved printing cylinders or plates. They also may thread paper through the press. They run off proofsheets to check the machine set up. They also clean, inspect, and oil the moving parts of the press.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
48.0208	PRINTING PRESS OPERATIONS	651.362-010	CYLINDER-PRESS OPERATOR	4	3	3 TWO TO FOUR YEARS
		651.362-014	CYLINDER-PRESS-OPERATOR APPRENTICE	4	3	3 TWO TO FOUR YEARS
		651.362-018	PLATEN-PRESS OPERATOR	4	2	2 TWO TO FOUR YEARS
		651.362-022	PLATEN-PRESS-OPERATOR APPRENTICE	4	2	2 TWO TO FOUR YEARS
		651.362-026	ROTOGRAVURE-PRESS OPERATOR	3	2	2 TWO TO FOUR YEARS
		651.362-030	WEB-PRESS OPERATOR	4	3	3 TWO TO FOUR YEARS
		651.362-034	WEB-PRESS-OPERATOR APPRENTICE	4	3	3 TWO TO FOUR YEARS
		651.380-010	PRINTER 2	4	3	3 FOUR TO TEN YEARS
		651.382-010	ENGRAVING-PRESS OPERATOR	4	2	3 TWO TO FOUR YEARS
		651.382-030	STEEL-DIE PRINTER	3	2	2 TWO TO FOUR YEARS
		651.382-034	TAB-CARD-PRESS OPERATOR	3	2	3 SIX TO 12 MONTHS
		651.382-038	TRANSFER OPERATOR	3	2	2 THREE TO SIX MONTHS
		651.384-010	PLATEN BUILDER-UP	2	1	2 THREE TO SIX MONTHS
		651.482-010	OFFSET-PRESS OPERATOR 1	4	2	3 TWO TO FOUR YEARS
		651.482-014	OFFSET-PRESS-OPERATOR APPRENTICE	4	2	3 TWO TO FOUR YEARS
		651.682-010	FLEXOGRAPHIC-PRESS OPERATOR	3	2	3 THREE TO SIX MONTHS
		659.381-010	PLATE SETTER, FLEXOGRAPHIC PRESS	3	3	3 ONE TO TWO YEARS

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OCCUPATION: 7444

PHOTOENGRAVING AND LITHOGRAPHING MACHINE SETUP OPERATORS

These workers set up and operate machines, cameras, or other equipment to print or transfer letters, designs, or pictures onto articles. They read job orders, determine the machine setups required, and use handtools and gauges to install and adjust machine units. They move controls to regulate machine actions. They check printed material for defects, and repair or replace machinery parts as required. They may also load materials in machines, fill ink or other containers, mix ingredients, clean and oil machinery, and keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	979.380-010	PANTOGRAPH SETTER	4	2	2	ONE TO TWO YEARS
48.0204	COMMERCIAL PHOTOGRAPHY	971.382-022	STEP-AND-REPEAT REDUCTION CAMERA OP	4	2	2	TWO TO FOUR YEARS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKIN	971.382-014	PHOTOGRAPHER, PHOTOENGRAVING	4	3	3	FOUR TO TEN YEARS
		972.282-010	SCANNER OPERATOR	3	2	2	ONE TO TWO YEARS
		972.282-014	LASER-BEAM-COLOR-SCANNER OPERATOR	4	3	4	TWO TO FOUR YEARS
		972.382-010	PHOTOGRAPHER APPRENTICE, LITHOGRAPH	4	2	3	TWO TO FOUR YEARS
48.0208	PRINTING PRESS OPERATIONS	972.382-014	PHOTOGRAPHER, LITHOGRAPHIC	4	2	3	TWO TO FOUR YEARS
		651.382-014	LITHOGRAPH-PRESS OPERATOR, TINWARE	3	2	2	TWO TO FOUR YEARS
		651.382-026	PRINTER, PLASTIC	3	1	2	SIX TO 12 MONTHS
		651.682-022	TIP PRINTER	3	2	2	30 TO 90 DAYS
		652.382-010	CLOTH PRINTER	4	1	3	TWO TO FOUR YEARS
		652.662-010	PRINTING-MACHINE OPERATOR, TAPE RUI	3	2	1	SIX TO 12 MONTHS
48.0210	PHOTOENGRAVING	652.662-014	WALLPAPER PRINTER 1	3	1	1	ONE TO TWO YEARS
		652.682-010	BOX PRINTER	3	1	2	THREE TO SIX MONTHS
		652.682-026	STRIPING-MACHINE OPERATOR	3	1	1	30 TO 90 DAYS
		*971.382-014	PHOTOGRAPHER, PHOTOENGRAVING	4	3	3	FOUR TO TEN YEARS

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OCCUPATION: 7449

PRINTING MACHINE SETUP OPERATORS, MISCELLANEOUS

These people set up and operate machines used to process printed products, such as paper tags and labels, cloth, books, and related items. They read work orders or blueprints to determine the machine setups required. They use handtools and measuring devices to install and adjust machine attachments. They may also fill ink containers or glue pots and mount or load materials in the machines. They may patrol the work area to detect and correct machinery problems. They may also check sample products for defects and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	649.682-046	TAG-PRESS OPERATOR	3 2 1	ONE TO TWO YEARS
		979.382-014	ENGRAVER, MACHINE	4 2 2	FOUR TO TEN YEARS
		979.382-018	GRAPHIC ARTS TECHNICIAN	4 2 2	SIX TO 12 MONTHS
48.0202	BOOKBINDING	653.360-010	CASING-IN-LINE SETTER	3 2 3	FOUR TO TEN YEARS
		653.360-014	FOLDING-MACHINE SETTER	3 2 2	FOUR TO TEN YEARS
		653.360-018	GATHERING-MACHINE SETTER	3 2 2	FOUR TO TEN YEARS
		653.380-010	PERFECT-BINDER SETTER	3 2 2	FOUR TO TEN YEARS
		653.562-010	SIDE-STITCHING-MACHINE OPERATOR	3 2 1	ONE TO TWO YEARS
		653.662-010	SADDLE-STITCHING-MACHINE OPERATOR	3 1 2	ONE TO TWO YEARS
		653.680-010	STITCHING-MACHINE SETTER	3 1 2	SIX TO 12 MONTHS
		653.682-018	HEAD-BANDER-AND-LINER OPERATOR	3 2 1	30 TO 90 DAYS
		653.682-022	TINNING-MACHINE SET-UP OPERATOR	3 1 2	SIX TO 12 MONTHS
48.0203	COMMERCIAL ART	659.682-026	SIGN WRITER, MACHINE	3 1 2	THREE TO SIX MONTHS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	654.382-010	CASTING-MACHINE OPERATOR	3 2 2	ONE TO TWO YEARS
		654.582-010	TYPE-CASTING MACHINE OPERATOR	3 2 2	ONE TO TWO YEARS
		659.382-010	EMBOSSER	4 2 2	ONE TO TWO YEARS
		659.682-014	EMBOSSING-PRESS OPERATOR	3 2 2	TWO TO FOUR YEARS
		659.682-018	EMBOSSING-PRESS-OPERATOR APPRENTICE	3 2 2	TWO TO FOUR YEARS
		659.682-026	SIGN WRITER, MACHINE	3 1 2	THREE TO SIX MONTHS
		979.382-018	GRAPHIC ARTS TECHNICIAN	4 2 2	SIX TO 12 MONTHS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	659.360-010	PLATE FINISHER	4 2 2	FOUR TO TEN YEARS
48.0208	PRINTING PRESS OPERATIONS	652.380-010	DECORATING-EQUIPMENT SETTER	3 2 2	SIX TO 12 MONTHS
		659.682-010	CUT-AND-PRINT-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		659.682-022	RULING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0209	SILK SCREEN MAKING AND PRINTING	652.260-010	SECTION LEADER, SCREEN PRINTING	4 2 3	TWO TO FOUR YEARS
		979.360-010	SCREEN-PRINTING-EQUIPMENT SETTER	4 2 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 7150

TEXTILE MACHINE SETUP OPERATORS

These workers set up and operate machines that make or process textile products. They may run machines that shape garments, cut cloth, quilt design, weave fabrics, knit hosiery, or twist fibers. Workers read work orders, install required attachments, adjust machines, and test machine operation. They set controls, load materials to be processed, watch machine operations, and check finished products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7451

WINDING AND TWISTING MACHINE SETUP OPERATORS

These workers set up and operate machines to make rope, yarn, or fibers. They install and adjust attachments to prepare machines for operation. They use handtools and may follow charts or instructions to set up and adjust the machines. They patrol the work area to detect problems with machine operations and repair or replace worn or damaged machine parts. They also oil or grease moving parts and wearing surfaces of machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	681.380-010	ROPE-MACHINE SETTER	3 2 3	ONE TO TWO YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	689.260-010	MACHINE FIXER	4 3 4	ONE TO TWO YEARS
		689.280-010	BOX TENDER	4 3 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7452

KNITTING AND WEAVING MACHINE SETUP OPERATORS

These workers set up and operate machines that braid, knit, or weave yarn to make products such as rugs, underwear, cloth, and hosiery. They read work orders or study samples to determine the machine settings and yarns to use. They change gears that control the weave, replace machine spindles, adjust tension devices, and may write down the machine settings used. They inspect finished products for defects. They may use handtools, hoists, and measuring tools to set up the machines and repair or replace worn parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
00.0000	NO CIP ASSIGNED	683.260-010	BRAID-PATTERN SETTER	4 3 4	TWO TO FOUR YEARS
		683.260-014	CARPET-LOOM FIXER	4 3 3	TWO TO FOUR YEARS
		683.26J-018	LOOM FIXER	4 3 4	TWO TO FOUR YEARS
		683.360-010	LOOM CHANGER	4 2 3	TWO TO FOUR YEARS
		683.680-010	HARNES PLACER	3 1 2	THRE TO SIX MONTHS
		683.680-014	HEDDLES TIER, JACQUARD LOOM	3 1 1	SIX TO 12 MONTHS
		683.682-018	DRAWING-IN-MACHINE TENDER	3 1 2	SIX TO 12 MONTHS
		685.380-010	LINK-AND-LINK-KNITTING-MACHINE OPER	3 2 3	ONE TO TWO YEARS
		685.680-010	THREADER	3 2 2	SIX TO 12 MONTHS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	685.360-010	KNITTER MECHANIC	4 3 3	TWO TO FOUR YEARS
		689.280-014	KNITTING-MACHINE FIXER	4 3 3	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7459

TEXTILE MACHINE SETUP OPERATORS, N.E.C.

These people set up and operate machines and equipment to make or process textile products. This includes machines used to shape and dry garments, cut cloth, quilt designs, weave fabrics, and treat yarn. They determine the machine setups required and install and adjust machine attachments. They may sharpen cutting tools and thread material into the machine. They also may repair or replace defective machine parts. They operate the machines by watching gauges and adjusting controls. They may keep work records and train workers to use the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	589.360-010	BONDING-MACHINE SETTER	3 2 3	SIX TO 12 MONTHS
		689.362-010	NEEDLE-FELT-MAKING-MACHINE OPERATOR	3 2 3	SIX TO 12 MONTHS
		689.382-010	AUTOMATIC-PAD-MAKING-MACHINE OPERAT	3 2 3	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	689.380-010	EMBLEM DRAWER-IN	3 2 3	30 TO 90 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	580.380-010	FIXER, BOARDING ROOM	4 2 3	TWO TO FOUR YEARS
		585.380-010	CUTTING-MACHINE FIXER	4 3 3	ONE TO TWO YEARS
		689.260-014	QUILTER FIXER	4 3 3	ONE TO TWO YEARS
		689.260-018	SECTION LEADER AND MACHINE SETTER	4 3 3	TWO TO FOUR YEARS
		689.260-022	SECTION LEADER AND MACHINE SETTER,	3 3 3	SIX TO 12 MONTHS
		689.360-010	NEEDLE-LOOM SETTER	3 2 3	ONE TO TWO YEARS

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OCCUPATION: 7460

ASSORTED MATERIALS: MACHINE SETUP OPERATORS

These workers set up and operate machines that make or process products. They may run machines that force products into specific shapes, stamp patterns on products, grind glass or coffee, coat and bake color TV tubes, process dairy products, or fold and glue envelopes. Workers read work orders, install required attachments, and test machinery operation. They set controls, measure and load ingredients, watch operations, and check finished products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7462

PACKAGING AND FILLING MACHINE SETUP OPERATORS

These workers set up and operate machines used to fill containers with materials or to package products. They select, install, and adjust machine attachments, according to the size and type of product to be handled. They load materials into the machines and watch machine operations. When necessary, they stop machinery and remove jammed materials. They may also repair or replace worn or broken machine parts. They use handtools and may use scales and other weighing devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	692.662-010	DYNAMITE-PACKING-MACHINE OPERATOR	3 2 3	SIX TO 12 MONTHS
		692.682-018	BORING-AND-FILLING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		692.682-050	POWER-DRIVEN-BRUSH MAKER	3 2 2	SIX TO 12 MONTHS
		920.680-010	FILLING-MACHINE SET-UP MECHANIC	3 1 2	30 TO 90 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	632.360-014	LOADING-MACHINE ADJUSTER	3 2 3	THREE TO SIX MONTHS
		632.360-018	PRIMER-INSERTING-MACHINE ADJUSTER	3 2 3	SIX TO 12 MONTHS
		632.380-014	LOADING-UNIT TOOL-SETTER	3 2 3	SIX TO 12 MONTHS
		632.380-018	PRIMER-WATERPROOFING-MACHINE ADJUST	3 2 3	SIX TO 12 MONTHS
		632.380-022	RIFLE-FIRE-PRIMING TOOL SETTER	3 3 3	THREE TO SIX MONTHS

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OCCUPATION: 7463

EXTRUDING AND FORMING MACHINE SETUP OPERATORS

These workers set up and operate machines used to press out and form products such as candy, glassware, bricks, and rubber goods. They read work orders, install and adjust the required machine attachments, and then perform test runs with the machinery. They set machine controls, watch gauges and recorders, and record machine readings. They may hand-load materials into the machines or turn valves to admit materials. As products are extruded (forced out), they check them for defects and adjust the machines accordingly.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
00.0000 NO CIP ASSIGNED	557.382-014 WINK-CUTTER OPERATOR	3 2 2	THREE TO SIX MONTHS
	557.682-010 GRAINING-PRESS OPERATOR	2 1 1	30 TO 90 DAYS
	575.682-010 FIBERGLASS-DOWEL-DRAWING-MACHINE OP	3 2 1	THREE TO SIX MONTHS
	690.662-014 TUBER-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
20.0406 FOOD SERVICE	520.682-014 CENTER-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0601 INDUSTRIAL CERAMICS MANUFACTURING	575.380-010 FORMING-MACHINE UPKEEP MECHANIC	4 3 3	TWO TO FOUR YEARS
	575.382-010 BRICK-AND-TILE-MAKING-MACHINE OPERA	3 2 2	SIX TO 12 MONTHS
	575.382-014 FORMING-MACHINE OPERATOR	3 3 2	TWO TO FOUR YEARS
	575.382-022 GLASS-ROLLING-MACHINE OPERATOR	3 2 3	ONE TO TWO YEARS
	575.682-022 RAM-PRESS OPERATOR	3 2 1	SIX TO 12 MONTHS

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OCCUPATION: 7467

COMPRESSING AND COMPACTING MACHINE SETUP OPERATORS

These people set up and operate machines to press materials into shapes or press designs into surfaces. Some make items such as soap bars or medicine tablets. Others do such things as press designs on floor covering or press cork into bottle caps. They install and adjust machine tools, load materials into the machines, and regulate machine controls. They watch the machines operate, clear machine jams and make other adjustments as necessary. They may measure, test, or weigh sample articles to make sure they were correctly made.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	556.382-010	COMPRESSOR	3 2 2	THREE TO SIX MONTHS
		556.682-018	PLODDER OPERATOR	3 1 2	THREE TO SIX MONTHS
		649.582-014	SIZING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		690.682-034	EMBOSSING-PRESS OPERATOR, MOILED GO	3 2 2	SIX TO 12 MONTHS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	692.362-010	SET-UP MECHANIC, CROWN ASSEMBLY MAC	3 2 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7472

ROASTING AND BAKING MACHINE SETUP OPERATORS

These people set up and operate roasting and baking machines. They start heating units and set controls to regulate baking time, temperature, and machine operations. They use handtools to adjust machine controls. Some workers set up and operate equipment such as roasters, dryers, and grinders to process cocoa beans to make chocolate liquor. Others operate equipment used to bake and coat TV tubes, or glaze pottery. These workers control conveyors or pumps that move materials into or out of the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	523.380-010	COCOA-BEAN ROASTER 2	4 2 3 TWO TO FOUR YEARS
		574.382-010	SETTER, TV TUBE COATING AND BAKING	3 2 2 THREE TO SIX MONTHS

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OCCUPATION: 7474

FOLDING MACHINE SETUP OPERATOR

These workers set up and operate machines that cut, crease, fold, glue, or staple paper to make products such as envelopes, boxes, and business forms. They install gears, and other parts and adjust the machines for specific jobs. They perform trial runs to detect problems and may take the machines apart to repair or replace broken or worn parts. They then load them with paper, glue, and other necessary materials. They set the machine control, start the machines, and watch them operate. They also check finished products for defects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	641.680-010	ENVELOPE-FOLDING-MACHINE ADJUSTER	3 2 2	TWO TO FOUR YEARS
		649.682-010	BOX-FOLDING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		649.682-026	PLATEN-PRESS OPERATOR	3 2 2	SIX TO 12 MONTHS
		649.682-030	SHELL-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
		649.682-034	SLITTER-CREASER-SLOTTER OPERATOR	2 2 2	THREE TO SIX MONTHS
48.0202	BOOKBINDING	641.682-014	GLUING-MACHINE OPERATOR, AUTOMATIC	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 7476

STILL, CLARIFYING, AND PRECIPITATING MACHINE SETUP OPERATORS

These people set up and operate equipment used to process liquid products. For example, some operate equipment to process milk, ice cream, and other dairy products. Others set up and operate equipment to produce chemicals for use in research or product development. They assemble, adjust, and repair machine units. They may measure and mix ingredients. They control the temperature, pressure, and flow rates of materials. They also watch meters and gauges to check process conditions, and may keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME
00.0000	NO CIP ASSIGNED	559.382-046	PILOT-CONTROL OPERATOR	4 3 3 TWO TO FOUR YEARS
02.0301	FOOD SCIENCES	529.382-018	DAIRY-PROCESSING-EQUIPMENT OPERATOR	4 2 3 SIX TO 12 MONTHS
41.0301	CHEMICAL TECHNOLOGY	559.382-046	PILOT-CONTROL OPERATOR	4 3 3 TWO TO FOUR YEARS

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OCCUPATION: 7477

CRUSHING AND GRINDING MACHINE SETUP OPERATORS

These workers set up and operate machines used to cut, grind, shape, and polish stone or glass. They select and install cutting wheel for the type of stone and the finish desired. Then they use handtools and measuring devices to adjust machine guides and stops that control the cut of the wheel. They move hand and foot controls to start the machine and regulate its action. While they are working, they may spread water on the surface of the stone or glass to look for puddles that indicate uneven areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	674.682-010	FINISHING-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
		690.682-014	BALL-TRUING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		716.382-018	PRECISION-LENS GRINDER	4 3 4	TWO TO FOUR YEARS
		716.382-022	PRECISION-LENS-GRINDER APPRENTICE	4 3 4	TWO TO FOUR YEARS
15.0606	OPTICAL TECHNOLOGY	716.382-018	PRECISION-LENS GRINDER	4 3 4	TWO TO FOUR YEARS
		716.382-022	PRECISION-LFNS-GRINDER APPRENTICE	4 3 4	TWO TO FOUR YEARS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	673.382-018	STONE POLISHER, MACHINE	3 1 1	ONE TO TWO YEARS
		673.382-022	STONE POLISHER, MACHINE APPRENTICE	3 1 1	ONE TO TWO YEARS
		673.682-018	EDGER-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		674.662-010	STONE-LATHE OPERATOR	4 2 2	TWO TO FOUR YEARS
		675.682-010	CONTOUR GRINDER	3 2 1	SIX TO 12 MONTHS
		675.682-018	PLANER, STONE	3 2 2	SIX TO 12 MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	673.680-010	EDGING-MACHINE SETTER	3 2 1	SIX TO 12 MONTHS
		673.682-010	AUTOMATIC PATTERN EDGER	3 1 1	30 TO 90 DAYS
		673.682-014	BEVELING-AND-EDGING-MACHINE OPERATO	3 2 3	THREE TO SIX MONTHS
		673.682-026	MITER GRINDER OPERATOR	3 2 3	THREE TO SIX MONTHS
		673.685-054	FINGER-GRIP-MACHINE OPERATOR	3 2 1	30 TO 90 DAYS

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OCCUPATION: 7478

SLICING AND CUTTING MACHINE SETUP OPERATORS

These workers set up and operate equipment used to slice or cut materials. This may include materials such as plastic, wallboard, hides, paper, cardboard, stone, and glass. They follow work orders to determine the setup required, and use handtools and measuring devices to install and adjust machine attachments. They load materials in the machines, and move levers and other controls to regulate machine actions. They replace worn or damaged machine parts. They check finished products for defects, and may weigh or measure sample products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	579.382-018	KNIFE OPERATOR	3 2 2	SIX TO 12 MONTHS
		640.360-010	PANEL-MACHINE SETTER	3 2 3	ONE TO TWO YEARS
		640.682-010	CONVOLUTE-TUBE WINDER	3 2 2	THREE TO SIX MONTHS
		640.682-018	CUTTING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		640.682-022	SPIRAL-TUBE WINDER	3 2 2	THREE TO SIX MONTHS
		649.682-038	SLITTER-SCORER-CUT-OFF OPERATOR	3 2 2	SIX TO 12 MONTHS
		649.682-042	TABLET-MAKING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		677.382-010	BATTING-MACHINE OPERATOR, INSULATIO	3 2 3	SIX TO 12 MONTHS
		677.682-026	TENONER OPERATOR	3 2 1	THREE TO SIX MONTHS
		690.680-010	RUBBER-GOODS CUTTER-FINISHER	3 2 3	THREE TO SIX MONTHS
		692.682-034	ELECTRODE TURNER-AND-FINISHER	3 2 2	THREE TO SIX MONTHS
		716.682-010	EYEGLASS-LENS CUTTER	3 2 2	30 TO 90 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	692.350-014	BRUSH-MACHINE SETTER	3 2 3	SIX TO 12 MONTHS
		692.682-046	PAINT-ROLLER-COVER-MACHINE SETTER	3 2 3	SIX TO 12 MONTHS
48.0304	SHOE AND BOOT REPAIR	690.462-010	OUTSOLE CUTTER, AUTOMATIC	3 2 2	THREE TO SIX MONTHS
		690.682-010	ARCH-CUSHION-SKIVING-MACHINE OPERAT	3 2 2	THREE TO SIX MONTHS
		690.682-038	FOXING-CUTTING-MACHINE OPERATOR, AU	3 2 2	THREE TO SIX MONTHS
		690.682-042	HEEL BREASTER, LEATHER	3 2 2	THREE TO SIX MONTHS
		690.682-046	HEEL-SEAT FITTER, MACHINE	3 2 2	THREE TO SIX MONTHS
		690.682-050	HOT-DIE-PRESS OPERATOR	3 2 2	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	677.562-010	GLASS-CUTTING-MACHINE OPERATOR, AUT	3 2 2	30 TO 90 DAYS
49.0204	MINING EQUIPMENT OPERATION	670.362-010	GANG SAWYER, STONE	3 2 1	SIX TO 12 MONTHS
		677.462-010	CIRCULAR SAWYER, STONE	3 2 1	THREE TO SIX MONTHS
		677.462-014	WIRE SAWYER	3 2 1	SIX TO 12 MONTHS

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OCCUPATION: 7479

MACHINE SETUP OPERATORS, MISCELLANEOUS

These workers set up and operate a variety of machines used in making or processing products. They read work orders for the machine setup; materials, and procedures to use. They install and adjust machine attachments and set controls that regulate the action of the machines. They use handtools and measuring devices to set up the machines and may clean, repair, or replace parts. They also may load materials into machines to be processed.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	503.362-010	PICKLER, CONTINUOUS PICKLING LINE	3 3 3	ONE TO TWO YEARS
		521.682-038	SHRIMP-PEELING-MACHINE OPERATOR	3 1 2	SIX TO 12 MONTHS
		529.682-026	LOZENGE MAKER	3 1 2	SIX TO 12 MONTHS
		534.682-026	COMBINER OPERATOR	3 2 2	THREE TO SIX MONTHS
		539.562-010	HIGH-DENSITY FINISHING OPERATOR	3 2 2	30 TO 90 DAYS
		553.362-010	BELT-PRESS OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.482-014	PUTTY TINTER-MAKER	3 2 2	SIX TO 12 MONTHS
		574.462-010	ABRASIVE-COATING-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
		579.380-010	BOARD-MACHINE SET-UP OPERATOR	3 2 2	ONE TO TWO YEARS
		590.362-014	IMPREGNATING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		599.382-010	PAINT-SPRAYER OPERATOR, AUTOMATIC	3 2 3	SIX TO 12 MONTHS
		641.562-010	CORRUGATOR OPERATOR	3 2 2	SIX TO 12 MONTHS
		649.380-010	MACHINE SET-UP OPERATOR, PAPER GOOD	3 2 2	SIX TO 12 MONTHS
		649.682-018	DRILL-PRESS OPERATOR, ACOUSTICAL TI	3 2 2	SIX TO 12 MONTHS
		649.682-022	EMBOSSER OPERATOR	3 2 2	SIX TO 12 MONTHS
		690.360-010	WAD-BLANKING-PRESS ADJUSTER	3 2 2	THREE TO SIX MONTHS
		690.362-010	LEAD OPERATOR, AUTOMATIC VULCANIZIN	3 2 2	SIX TO 12 MONTHS
		690.380-010	MACHINE SETTER	3 2 3	SIX TO 12 MONTHS
		690.382-014	WEATHERSTRIP-MACHINE OPERATOR	3 2 3	THREE TO SIX MONTHS
		690.580-010	HIDE SPLITTER	3 2 2	THREE TO SIX MONTHS
		690.662-010	TIRE-REGROOVING-MACHINE OPERATOR	3 2 3	THREE TO SIX MONTHS
		690.682-090	TRIMMING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		691.682-010	ASBESTOS-WIRE FINISHER	3 2 2	THREE TO SIX MONTHS
		691.682-014	BRAIDER OPERATOR	3 2 2	SIX TO 12 MONTHS
		692.382-010	BALLPOINT-PEN-ASSEMBLY-MACHINE OPER	4 3 3	ONE TO TWO YEARS
		692.382-014	PLATE STACKER, MACHINE	3 2 2	THREE TO SIX MONTHS
		692.682-070	TWISTING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		694.362-010	CLIP-LOADING-MACHINE ADJUSTER	3 2 3	THREE TO SIX MONTHS
		694.382-010	SALVAGE-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
10.0101	EDUCATIONAL MEDIA TECHNOLOGY	960.382-010	AUDIOVISUAL TECHNICIAN	4 3 3	30 TO 90 DAYS
		962.261-010	PLANETARIUM TECHNICIAN	4 4 4	TWO TO FOUR YEARS
10.0102	MOTION PICTURE TECHNOLOGY	960.362-010	MOTION-PICTURE PROJECTIONIST	4 2 2	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7479 MISCELLANEOUS MACHINE SETUP OPERATORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
15.0303	ELECTRONIC TECHNOLOGY	599.380-010	EXHAUST EQUIPMENT SET-UP MECHANIC	4 4 4	ONE TO TWO YEARS
15.0403	ELECTROMECHANICAL TECHNOLOGY	809.382-010	BALANCING-MACHINE SET-UP WORKER	4 3 3	TWO TO FOUR YEARS
20.0402	BAKING	526.682-010	BATTER SCALER	3 2 2	THREE TO SIX MONTHS
20.0406	FOOD SERVICE	520.682-026	MOULDING-MACHINE OPERATOR	3 2 3	ONE TO TWO YEARS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	676.462-010	ROUTER OPERATOR	3 3 3	30 TO 90 DAYS
47.0105	INDUSTRIAL ELECTRONICS	692.360-018	FIRESETTER	4 3 3	ONE TO TWO YEARS
		692.482-010	CARBON-AND-GRAPHITE-BRUSH-MACHINE O	3 3 3	THREE TO SIX MONTHS
		724.360-010	SET-UP MECHANIC, COIL-WINDING MACHI	4 3 4	ONE TO TWO YEARS
47.0107	MOTOR REPAIR	692.482-010	CARBON-AND-GRAPHITE-BRUSH-MACHINE O	3 3 3	THREE TO SIX MONTHS
		724.360-010	SET-UP MECHANIC, COIL-WINDING MACHI	4 3 4	ONE TO TWO YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	632.360-010	GAGE-AND-WEIGH-MACHINE ADJUSTER	3 2 3	SIX TO 12 MONTHS
		632.380-026	VARNISHING-UNIT TOOL SETTER	3 2 3	30 TO 90 DAYS
		692.360-010	ASSEMBLY-MACHINE-SET-UP MECHANIC	3 3 3	SIX TO 12 MONTHS
		692.380-014	SET-UP MECHANIC, AUTOMATIC LINE	4 3 3	ONE TO TWO YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.360-010	PRINT CONTROLLER	4 3 2	ONE TO TWO YEARS
48.0208	PRINTING PRESS OPERATIONS	652.682-022	STAMPER, MACHINE	3 1 1	THREE TO SIX MONTHS
48.0504	METAL FABRICATION	692.682-014	BEAD-FORMING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	574.582-010	SILVERING APPLICATOR	3 2 2	SIX TO 12 MONTHS
		574.682-014	SPRAY-MACHINE OPERATOR	3 2 1	SIX TO 12 MONTHS
		676.682-010	DRILL OPERATOR, AUTOMATIC	3 2 1	THREE TO SIX MONTHS
		679.682-010	BANDING-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS

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OCCUPATION: 7500

MACHINE OPERATORS AND TENDERS

These workers operate or tend machines that process metal or plastic materials and products. They may install attachments, adjust controls, watch machine operation, and check finished workpieces for defects. They may clean machines and do minor repairs or change worn parts. They may run or tend machines that make metal or plastic products by molding, extruding, stamping, cutting, or welding. Others use machines to do finishing processes like buffing or plating.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7510

METAL WORKING AND PLASTIC WORKING MACHINE OPERATORS AND TENDERS

These workers run machines that cut, shape, bore, or grind metal or plastic workpieces. They may set up and load machines that trace templates for watch parts or thread plastic tubes for flashlight covers. Others run machines that cut metal or plastic sheets to a specific size or shape metal by squeezing it through large cylinders. Workers may use machines to stamp patterns in metal or buff metal or jewels. They check workpieces and clean and replace machine parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7512

LATHE AND TURNING MACHINE AND TENDERS

These workers operate machines used to grind, bore, thread, or cut metal or plastic workpieces. They read blueprints or work orders, install and adjust the required cutting tools, and position the workpieces for machining. They may brush oil or abrasives on the cutting tools to help the cutting or grinding action. They move switches and other controls to advance the cutters and smooth the surfaces of the workpieces. They also may examine and measure finished pieces to see that requirements are met.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- CODE TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GED- R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	604.685-010 BALANCE RECESSER	2 1 1 30 TO 90 DAYS
	619.382-014 FITTINGS FINISHER	3 2 2 THREE TO SIX MONTHS
	619.682-010 BELL SPINNER	3 2 3 TWO TO FOUR YEARS
	690.685-190 FOUNTAIN PEN TURNER	2 1 2 30 TO 90 DAYS
	690.685-202 GROOVING-LATHE TENDER	2 1 2 UP TO 30 DAYS
47.0408 WATCH REPAIR	604.682-010 SCREW-MACHINE OPERATOR, SWISS-TYPE	3 3 2 ONE TO TWO YEARS
	604.685-030 RIM-TURNING FINISHER	2 1 1 30 TO 90 DAYS
	604.685-042 TURRET-LATHE OPERATOR, TUMBLE TAILS	2 1 1 30 TO 90 DAYS
	715.682-010 BARREL FINISHER	2 1 2 30 TO 90 DAYS
	715.685-014 CUTTER, V-GROOVE	2 1 1 30 TO 90 DAYS
	715.685-018 DEBURRER, MACHINE	2 1 1 30 TO 90 DAYS
	715.685-062 TAPPER 2	2 1 1 30 TO 90 DAYS
	770.682-010 JEWEL-BEARING BROACHER	3 2 2 SIX TO 12 MONTHS
	770.682-014 JEWEL-BEARING DRILLER	3 2 2 THREE TO SIX MONTHS
	770.682-022 JEWEL-BEARING TURNER	3 2 2 THREE TO SIX MONTHS
48.0503 MACHINE TOOL OPERATION/MACHINE SHOP	604.362-010 LATHE OPERATOR, NUMERICAL CONTROL	4 3 3 ONE TO TWO YEARS
	604.382-010 SCREW-MACHINE OPERATOR, MULTIPLE SP	3 2 2 ONE TO TWO YEARS
	604.382-014 SCREW-MACHINE OPERATOR, SINGLE SPIN	3 2 2 SIX TO 12 MONTHS
	604.685-014 FACING-MACHINE OPERATOR	2 1 1 30 TO 90 DAYS
	604.685-018 KNURLING-MACHINE OPERATOR	2 2 2 30 TO 90 DAYS
	604.685-022 LAP CUTTER-TRUER OPERATOR	2 1 1 UP TO 30 DAYS
	604.685-026 LATHE OPERATOR, PRODUCTION	2 2 2 30 TO 90 DAYS
	604.685-034 SCREW-MACHINE OPERATOR, PRODUCTION	2 2 2 THREE TO SIX MONTHS
	604.685-038 THREADING-MACHINE OPERATOR	2 1 2 THREE TO SIX MONTHS
	604.685-042 TURRET-LATHE OPERATOR, TUMBLE TAILS	2 1 1 30 TO 90 DAYS
	615.685-018 CUP-TRIMMING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
	700.682-014 LATHE HAND	3 1 2 ONE TO TWO YEARS
48.0504 METAL FABRICATION	619.482-010 LATHE WINDER	3 3 2 THREE TO SIX MONTHS
	619.685-086 WINDING-LATHE OPERATOR	2 1 1 30 TO 90 DAYS
48.0506 SHEET METAL	619.685-082 SPINNING-LATHE OPERATOR, AUTOMATIC	2 1 1 UP TO 30 DAYS

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OCCUPATION: 7512 LATHE AND TURNING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.682-014	LATHE HAND	3 1 2 ONE TO TWO YEARS

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OCCUPATION: 7513

MILLING AND PLANING MACHINE OPERATORS AND TENDERS .

These workers operate or tend machines used to cut, grind, or shape metal or plastic workpieces. They study blueprints or work tickets to determine the machining to be done. They install the required machine attachments, lift workpieces onto the machines, and move controls to regulate machine actions. They may then replace worn machine cutters and saw or melt stock to prepare it for grinding or casting. They also examine or measure finished work and clean the equipment and work area.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
47.0408	WATCH REPAIR	605.682-030	WHEEL CUTTER	3 2 2	SIX TO 12 MONTHS
		605.685-018	HOOKING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		605.685-022	JEWEL STRIPPER	2 1 2	UP TO 30 DAYS
		605.685-026	LEVER MILLER	2 1 2	UP TO 30 DAYS
		605.685-034	PLANING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		605.685-038	PROFILING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		605.685-046	SQUARING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		605.685-050	TOOTH CUTTER	2 2 2	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	605.682-014	BROACHING-MACHINE OPERATOR, PRODUCT	3 2 2	THREE TO SIX MONTHS
		605.682-018	ROUTER OPERATOR, RADIAL	3 2 2	THREE TO SIX MONTHS
		605.682-030	WHEEL CUTTER	3 2 2	SIX TO 12 MONTHS
		605.685-010	BARREL RIFLER	2 1 2	30 TO 90 DAYS
		605.685-014	FILE CUTTER	3 2 2	THREE TO SIX MONTHS
		605.685-018	HOOKING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		605.685-022	JEWEL STRIPPER	2 1 2	UP TO 30 DAYS
		605.685-026	LEVER MILLER	2 1 2	UP TO 30 DAYS
		605.685-030	MILLING-MACHINE OPERATOR, PRODUCTIO	2 2 2	30 TO 90 DAYS
		605.685-034	PLANING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		605.685-038	PROFILING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		605.685-042	SCRIBING-MACHINE OPERATOR	2 2 2	UP TO 30 DAYS
		605.685-046	SQUARING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		605.685-050	TOOTH CUTTER	2 2 2	30 TO 90 DAYS
		607.686-010	MAGNESIUM-MILL OPERATOR	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7514

PUNCHING AND SHEARING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to cut, and shape metal and plastic workpieces. They follow charts or other instructions to install machine attachments and adjust machine cutters and guides. They load or feed materials into the machines and press pedals and turn cranks to operate the machinery. They may guide workpieces along marked cutting lines to cut them into specified shapes. They check machined pieces for defects, and replace worn or broken machine parts as required. They also may operate conveyors and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	615.685-010	BURRING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		690.585-014	MOTTLE-LAY-UP OPERATOR	2 2 2	THREE TO SIX MONTHS
		690.665-010	SLASHER	2 1 1	30 TO 90 DAYS
		690.685-130	DICER OPERATOR	2 1 1	UP TO 30 DAYS
		727.685-010	PLATE SLITTER-AND-INSPECTOR	2 2 2	UP TO 30 DAYS
47.0408	WATCH REPAIR	715.685-070	TUBING-MACHINE TENDER	2 1 1	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	615.685-022	CUT-OFF-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
48.0504	METAL FABRICATION	615.682-014	PUNCH-PRESS OPERATOR 3	3 2 2	THREE TO SIX MONTHS
		615.685-030	PUNCH-PRESS OPERATOR 2	2 1 1	30 TO 90 DAYS
		615.685-038	STRIP-METAL-PUNCH-AND-STRAIGHTENER	2 1 1	30 TO 90 DAYS
48.0506	SHEET METAL	615.482-030	ROTARY-SHEAR OPERATOR	3 2 2	THREE TO SIX MONTHS
		615.482-038	TURRET-PUNCH-PRESS OPERATOR	4 3 3	SIX TO 12 MONTHS
		615.682-014	PUNCH-PRESS OPERATOR 3	3 2 2	THREE TO SIX MONTHS
		615.685-026	NIBBLER OPERATOR	2 2 2	30 TO 90 DAYS
		615.685-030	PUNCH-PRESS OPERATOR 2	2 1 1	30 TO 90 DAYS
		615.685-034	SHEAR OPERATOR 2	2 2 2	30 TO 90 DAYS
		615.685-038	STRIP-METAL-PUNCH-AND-STRAIGHTENER	2 1 1	30 TO 90 DAYS
		615.685-042	TURRET-PUNCH-PRESS OPERATOR, TAPE-C	2 2 2	30 TO 90 DAYS

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OCCUPATION: 7515

EXTRUDING AND DRAWING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines that shape metal wire or strips by forcing the metal through special tools. They also may operate machines to cut, coat, or wrap covering around wire cable. They form products such as metal eyeglass frames, bullets, jewelry, dental wire, and electrodes. They read job orders, install the proper tools and thread the metal wire or strips through the machine. They start the machine, watch it operate, and make adjustments when necessary. They may use precision measuring devices to check finished products for defects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	614.682-010	DRAW-BENCH OPERATOR	4 3 3	SIX TO 12 MONTHS
		614.682-014	FANCY-WIRE DRAWER	3 2 2	THREE TO SIX MONTHS
		614.685-010	EXTRUDING-PRESS OPERATOR	2 2 2	THREE TO SIX MONTHS
		614.685-014	EXTRUSION-PRESS OPERATOR 2	2 2 2	UP TO 30 DAYS
		614.685-018	REDUCING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
47.0408	WATCH REPAIR	614.382-014	WIRE DRAWER	3 2 2	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	614.685-022	TUBE DRAWER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 7516

ROLLING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines that shape metal by squeezing it through large rollers. Often, the metal is heated before it is shaped. They determine the work to be done and set machine stops, guides, and rolls accordingly. They load metal stock into the machine, move controls to regulate machine actions, and examine finished pieces for defects. They may also repair machine parts, clean the equipment and work area, operate conveyors, and keep processing records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	613.362-014	ROLLER, PRIMARY MILL	4 3 4 TWO TO FOUR YEARS
		613.362-018	ROUGHER	3 3 3 TWO TO FOUR YEARS
		613.362-022	SPEED OPERATOR	3 3 2 ONE TO TWO YEARS
		613.382-010	COILER OPERATOR	3 1 1 ONE TO TWO YEARS
		613.382-018	SCREWDOWN OPERATOR	3 2 2 SIX TO 12 MONTHS
		613.462-022	STRAIGHTENING-ROLL OPERATOR	3 1 1 THREE TO SIX MONTHS
		613.585-010	BED OPERATOR	3 2 1 THREE TO SIX MONTHS
		613.662-014	ROUGHER OPERATOR	3 2 2 SIX TO 12 MONTHS
		613.682-010	MANIPULATOR	3 2 2 SIX TO 12 MONTHS
		613.682-026	TABLE OPERATOR	3 2 1 SIX TO 12 MONTHS
		613.685-010	COILER	2 1 1 THREE TO SIX MONTHS
		613.685-018	PIERCING-MILL OPERATOR	2 2 2 30 TO 90 DAYS
		613.685-022	ROLLER-LEVELER OPERATOR	2 1 1 UP TO 30 DAYS
		613.685-030	TUBING-MACHINE OPERATOR	2 1 1 THREE TO SIX MONTHS
48.0504	METAL FABRICATION	619.685-034	DRUM STRAIGHTENER 1	2 1 1 UP TO 30 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	613.682-018	ROLLER	3 3 2 THREE TO SIX MONTHS

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OCCUPATION: 7517

PRESS AND BRAKE MACHINE OPERATORS AND TENDERS

These people operate or tend machines that cut, shape, and form metal into objects. They mount metal pieces onto holding devices in the machines and move controls to regulate the action of the machines. They may hold metal pieces against machine tools while they are being shaped, or use a crane to position large workpieces against machine stops. They may also tend a machine that compresses metal powders to shape parts. Once the metal pieces are shaped, they examine, weigh, and/or measure them to see if they meet specifications.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	612.685-014	SPRING TESTER 1	3 2 2	THREE TO SIX MONTHS
		616.685-086	WIRE COINER	2 1 1	30 TO 90 DAYS
		617.685-042	SWAGE TENDER	2 1 1	UP TO 30 DAYS
		692.462-010	CALENDER-ROLL PRESS OPERATOR	3 3 2	THREE TO SIX MONTHS
47.0105	INDUSTRIAL ELECTRONICS	724.684-022	COIL SHAPER	3 2 2	SIX TO 12 MONTHS
47.0107	MOTOR REPAIR	724.684-022	COIL SHAPER	3 2 2	SIX TO 12 MONTHS
47.0408	WATCH REPAIR	715.684-030	BEVELER	2 1 1	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	617.685-014	CORNER FORMER	2 1 1	30 TO 90 DAYS
48.0504	METAL FABRICATION	617.685-014	CORNER FORMER	2 1 1	30 TO 90 DAYS
		617.685-026	POWER-PRESS TENDER	2 1 1	30 TO 90 DAYS
		617.685-038	SINTERING-PRESS OPERATOR	2 2 2	UP TO 30 DAYS
		619.685-014	BANDING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		619.685-018	BANDING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
48.0506	SHEET METAL	619.685-026	BRAKE OPERATOR 2	3 2 2	THREE TO SIX MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-054	PLANISHER	2 1 1	UP TO 30 DAYS
48.0702	FURNITURE MAKING	619.685-014	BANDING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7518

DRILLING AND BORING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines that drill, ream (enlarge), or tap holes in metal objects. They select the proper sized cutting tools and fasten them in place on the machine. They lift workpieces onto the machine by hand or using a hoist, and secure them on the machine table. They move controls to feed the cutting tool into workpieces and to adjust the cutting speed, feed rate, and depth of cut. They watch cutting tools in operation and replace, sharpen, or reset them as necessary. They use gauges and other precision measuring devices to check finished work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	606.685-022	CHOKE REAMER	2 1 1	30 TO 90 DAYS
47.0408	WATCH REPAIR	606.685-030	DRILLING-MACHINE OPERATOR, AUTOMATI	2 1 1	30 TO 90 DAYS
		715.682-014	COUNTERSINKER	2 2 1	30 TO 90 DAYS
		715.684-062	COLLET DRILLER	2 1 1	UP TO 30 DAYS
		715.685-022	DRILLER AND BROACHER	3 2 2	SIX TO 12 MONTHS
		770.682-026	JEWEL-HOLE DRILLER	3 2 2	SIX TO 12 MONTHS
		770.685-030	JEWEL-CUPPING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	606.382-010	DRILLER-AND-REAMER, AUTOMATIC	3 2 2	THREE TO SIX MONTHS
		606.682-014	DRILL-PRESS OPERATOR	3 2 2	30 TO 90 DAYS
		606.685-010	BORING-MACHINE OPERATOR, PRODUCTION	2 2 2	30 TO 90 DAYS
		606.685-014	CHAMFERING-MACHINE OPERATOR 1	3 2 2	30 TO 90 DAYS
		606.685-018	CHAMFERING-MACHINE OPERATOR 2	2 1 1	UP TO 30 DAYS
		606.685-026	DRILL-PRESS OPERATOR, PRODUCTION	2 1 1	UP TO 30 DAYS
		606.685-034	REAMING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		709.684-082	STAB SETTER AND DRILLER	2 2 2	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.684-026	DRILLER	2 1 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 7519

FORGING MACHINE OPERATORS

These workers operate or tend machines used to flatten, compress, expand, or shape metal. These machines include power hammers, rollers, forges, and presses. They may heat the metal in a furnace before it is shaped. They adjust machine units, and then position and secure metal pieces in holding devices. They start the machines and watch for problems while they operate. Once pieces are shaped, they may use a template or some other measuring device to check them for defects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M I.	TRAINING TIME
00.0000 NO CIP ASSIGNED	610.684-014 SPRING SALVAGE WORKER	2 1 1	THREE TO SIX MONTHS
	612.685-010 LEVER TENDER	2 1 1	THREE TO SIX MONTHS
48.0503 MACHINE TOOL OPERATION/MACHINE SHOP	611.482-014 ROLLER-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
	611.685-010 FORGING-PRESS OPERATOR 2	2 2 2	UP TO 30 DAYS
	611.685-014 HYDRAULIC OPERATOR	2 1 1	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7522

GRINDING, ABRADING, BUFFING, AND POLISHING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines that grind, scrape, buff, or polish metal, glass, or jewels. Machines may be used to grind parts to size, sharpen tools or cutlery, or polish and finish products. Workers install machine attachments, set and adjust controls, and load or hold workpieces in the machine for processing. They also may heat metal pieces before they are machined. They watch indicators or gauges as pieces are worked and adjust controls. They also clean and oil the machinery and may keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	603.685-078	SNAPPER	2 1 1	UP TO 30 DAYS
		690.685-142	EDGE GRINDER	2 1 1	30 TO 90 DAYS
		690.685-170	FINISHER, MACHINE	2 2 2	UP TO 30 DAYS
		690.685-194	GRINDING-MACHINE OPERATOR, AUTOMATI	2 1 2	UP TO 30 DAYS
		705.582-010	BLADE GROOVER	2 1 1	UP TO 30 DAYS
		705.682-010	GOLD-NIB GRINDER	2 1 2	UP TO 30 DAYS
		705.682-014	TRIMMER	3 1 2	THREE TO SIX MONTHS
		705.684-070	POLISHER, SAND	3 1 2	ONE TO TWO YEARS
		713.684-038	POLISHER, EYEGGLASS FRAMES	2 1 1	UP TO 30 DAYS
		770.685-010	FLAT SURFACER, JEWEL	2 1 2	30 TO 90 DAYS
47.0408	WATCH REPAIR	603.685-022	BEVEL POLISHER	2 2 2	30 TO 90 DAYS
		603.685-038	BRUSH POLISHER	2 1 1	30 TO 90 DAYS
		603.685-042	BURNISHER	2 1 1	UP TO 30 DAYS
		603.685-054	FLAT POLISHER	2 1 1	THREE TO SIX MONTHS
		603.685-066	GRINDER, LAP	2 1 1	30 TO 90 DAYS
		603.685-082	STONER AND POLISHER, BEVEL FACE	2 1 1	30 TO 90 DAYS
		715.381-034	BLOCKER AND POLISHER, GOLD WHEEL	3 2 2	SIX TO 12 MONTHS
		715.381-090	SCREWHEAD POLISHER	3 2 2	SIX TO 12 MONTHS
		715.682-018	POLISHER	3 2 2	SIX TO 12 MONTHS
		715.682-026	TOOTH POLISHER	3 2 2	SIX TO 12 MONTHS
		715.684-158	PALLET RECTIFIER	2 2 2	THREE TO SIX MONTHS
		715.685-026	END POLISHER	2 2 2	THREE TO SIX MONTHS
		715.685-042	PINION POLISHER	2 1 1	30 TO 90 DAYS
		715.685-046	POLISHER, BALANCE SCREWHEAD	2 1 1	30 TO 90 DAYS
		770.582-010	FACER	3 2 2	THREE TO SIX MONTHS
		770.682-018	JEWEL-BEARING FACER	3 2 2	THREE TO SIX MONTHS
		770.685-014	JEWEL GRINDER 1	2 1 2	30 TO 90 DAYS
		770.685-018	JEWEL-BEARING GRINDER	3 2 2	THREE TO SIX MONTHS
		770.685-022	JEWEL-BEARING POLISHER	3 2 2	THREE TO SIX MONTHS
		770.685-026	JEWEL-CORNER-BRUSHING-MACHINE OPERA	2 1 1	30 TO 90 DAYS
		770.685-034	TURNER, MACHINE	3 1 2	THREE TO SIX MONTHS
47.0603	AUTOMOTIVE BODY REPAIR	705.684-058	POLISHER	3 2 2	ONE TO TWO YEARS

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OCCUPATION: 7522 GRINDING, ABRADING, BUFFING AND POLISHING MACHINE O (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		705.684-066	POLISHER APPRENTICE	3	2	2	ONE TO TWO YEARS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	601.682-010	TOOL DRESSER	3	2	2	SIX TO 12 MONTHS
		603.382-030	PRINTING-ROLLER POLISHER	3	2	2	ONE TO TWO YEARS
		603.482-030	GRINDER 1	3	2	2	SIX TO 12 MONTHS
		603.664-010	TOOL GRINDER 2	2	1	1	30 TO 90 DAYS
		603.665-010	BUFFING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		603.682-018	LINTER-SAW SHARPENER	3	3	2	THREE TO SIX MONTHS
		603.685-010	BAND-REAMFR-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		603.685-014	BARREL POLISHER, INSIDE	2	1	1	30 TO 90 DAYS
		603.685-018	BEARINGNIZER	2	1	1	UP TO 30 DAYS
		603.685-022	BEVEL POLISHER	2	2	2	30 TO 90 DAYS
		603.685-026	BIT SHARPENER	2	1	1	30 TO 90 DAYS
		603.685-030	BIT-SHARPENER OPERATOR	2	1	1	UP TO 30 DAYS
		603.685-034	BOTTOM POLISHER	2	1	1	UP TO 30 DAYS
		603.685-038	BRUSH POLISHER	2	1	1	30 TO 90 DAYS
		603.685-042	BURNISHER	2	1	1	UP TO 30 DAYS
		603.685-046	BURRER, MACHINE	2	1	1	UP TO 30 DAYS
		603.685-050	DEBURRER	2	1	1	UP TO 30 DAYS
		603.685-054	FLAT POLISHER	2	1	1	THREE TO SIX MONTHS
		603.685-058	GRINDER OPERATOR, AUTOMATIC	2	1	1	UP TO 30 DAYS
		603.685-062	GRINDER OPERATOR, PRODUCTION	3	2	2	30 TO 90 DAYS
		603.685-070	LAPPING-MACHINE OPERATOR, PRODUCTIO	2	2	2	30 TO 90 DAYS
		603.685-074	SHOT-GRINDER OPERATOR	2	1	2	UP TO 30 DAYS
		603.685-082	STONER AND POLISHER, BEVEL FACE	2	1	1	30 TO 90 DAYS
		705.684-010	BENCH GRINDER	2	1	1	30 TO 90 DAYS
		705.684-058	POLISHER	3	2	2	ONE TO TWO YEARS
		705.684-066	POLISHER APPRENTICE	3	2	2	ONE TO TWO YEARS
48.0602	JLWELRY DESIGN, FABRICATION, AND REPAIR	700.687-066	SCRAPER	2	1	1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7529

METALWORKING AND PLASTIC WORKING MACHINE OPERATORS AND TENDERS, MISC.

These workers operate or tend machines that shape, fit, form, or condition metal and plastic materials. Sample work includes controlling equipment used to mix or remove impurities from metals. Some workers tend machines that straighten, polish, cut, or press holes in parts or products. Other work duties may include: loading materials, adjusting controls, installing machine tools, and checking finished work for defects. They also may keep records of gauge readings, test results, or products processed.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	509.485-014	SHOT POLISHER AND INSPECTOR	2	2	2	30 TO 90 DAYS
		509.685-042	LUBRICATOR-GRANULATOR	2	2	1	UP TO 30 DAYS
		509.685-046	SCRAP BALLER	2	1	1	30 TO 90 DAYS
		509.685-050	SCRAP HANDLER	3	2	2	30 TO 90 DAYS
		551.352-010	PURIFICATION OPERATOR	4	2	3	TWO TO FOUR YEARS
		552.362-010	MOLDER-PURIFICATION OPERATOR	3	2	2	SIX TO 12 MONTHS
		619.682-014	COUPLING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		619.682-034	HOOP-FLARING-AND-COILING-MACHINE OP	3	2	2	THREE TO SIX MONTHS
		619.682-038	SAMPLER, FIRST	4	2	3	SIX TO 12 MONTHS
		690.682-074	SPAGHETTI-MACHINE OPERATOR	3	2	3	THREE TO SIX MONTHS
		690.685-310	POINTING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		694.585-010	SHELL-SIEVE OPERATOR	1	1	1	UP TO 30 DAYS
		694.685-022	FUSE-CUP EXPANDER	1	1	1	UP TO 30 DAYS
		709.687-058	WIRE BENDER	1	1	1	30 TO 90 DAYS
		713.684-030	FRAME CARVER, SPINDLE	2	2	2	30 TO 90 DAYS
		739.384-010	DIAMOND MOUNTER	3	3	3	THREE TO SIX MONTHS
		739.685-046	TAPPER, BIT	2	1	1	UP TO 30 DAYS
		739.685-050	TAPPER, SHANK	2	1	1	UP TO 30 DAYS
		754.684-018	BIT SHAVER	2	1	1	UP TO 30 DAYS
47.0108	SMALL APPLIANCE REPAIR	723.685-010	HEATING-ELEMENT WINDER	2	1	1	30 TO 90 DAYS
47.0403	LOCKSMITHING AND SAFE REPAIR	709.684-050	KEY CUTTER	2	2	2	UP TO 30 DAYS
47.0404	MUSICAL INSTRUMENT REPAIR	730.681-018	VALVE MAKER 2	3	2	2	ONE TO TWO YEARS
		730.682-010	SOCKET PULLER	3	1	1	THREE TO SIX MONTHS
		730.684-070	SEAM HAMMERER	3	1	1	30 TO 90 DAYS
		730.684-074	SHEET-METAL-PATTERN CUTTER	2	2	1	30 TO 90 DAYS
47.0408	WATCH REPAIR	609.682-014	COLLET MAKER	3	2	2	SIX TO 12 MONTHS
		609.682-030	SCREWMAKER, AUTOMATIC	3	2	2	SIX TO 12 MONTHS
		609.685-014	ENGRAVER, AUTOMATIC	2	1	1	UP TO 30 DAYS
		715.684-042	BURRER	2	1	1	30 TO 90 DAYS
		715.685-030	GRINDER 2	2	1	1	30 TO 90 DAYS

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OCCUPATION: 7529 MISCELLANEOUS METALWORKING AND PLASTIC WORKING MACH (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
		15.685-050	PRESS OPERATOR, PIERCE AND SHAVE	2 1 1	UP TO 30 DAYS
		715.685-054	PROFILER, HAND	3 2 2	THREE TO SIX MONTHS
47.0603	AUTOMOTIVE BODY REPAIR	705.684-034	METAL FINISHER	2 1 2	THREE TO SIX MONTHS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*709.684-106	WIREWORKER	2 1 1	THREE TO SIX MONTHS
		*806.684-042	CABLE SWAGER	3 2 2	SIX TO 12 MONTHS
48.0502	FOUNDRY WORK	509.362-010	MIXER OPERATOR, HOT METAL	3 2 2	SIX TO 12 MONTHS
		512.382-014	STOVE TENDER	3 1 2	SIX TO 12 MONTHS
		512.382-018	TIN RECOVERY WORKER	3 2 2	THREE TO SIX MONTHS
		512.483-010	FURNACE CHARGER	3 2 2	THREE TO SIX MONTHS
		512.683-010	CHARGING-MACHINE OPERATOR	3 1 1	SIX TO 12 MONTHS
		514.584-010	INCOT HEADER	3 1 1	THREE TO SIX MONTHS
		514.682-014	PRESS OPERATOR, CARBON BLOCKS	3 1 1	THREE TO SIX MONTHS
		519.362-010	NICKEL-PLANT OPERATOR	3 2 2	ONE TO TWO YEARS
		519.362-014	TANK-HOUSE OPERATOR	3 2 2	ONE TO TWO YEARS
		519.484-010	CARNALLITE-PLANT OPERATOR	2 1 2	THREE TO SIX MONTHS
		519.582-010	RECOVERY OPERATOR	3 2 2	SIX TO 12 MONTHS
		519.663-010	DOOR-MACHINE OPERATOR	2 2 2	30 TO 90 DAYS
		519.663-018	PUSHER OPERATOR	2 1 2	30 TO 90 DAYS
		519.683-010	DROSS SKIMMER	2 1 1	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	602.362-014	GEAR-SORTING-AND-INSPECTING MACHINE	3 3 2	THREE TO SIX MONTHS
		602.685-010	GEAR-CUTTING-MACHINE OPERATOR, PROD	2 2 2	30 TO 90 DAYS
		607.682-014	PROFILE TRIMMER	3 2 2	THREE TO SIX MONTHS
		607.685-010	CUT-OFF SAW TENDER, METAL	2 2 2	UP TO 30 DAYS
		609.462-010	BALANCING-MACHINE OPERATOR	3 2 2	ONE TO TWO YEARS
		609.482-010	ELECTRICAL-DISCHARGE-MACHINE OPERAT	3 2 2	THREE TO SIX MONTHS
		609.682-010	AUTOMATIC-WHEEL-LINE OPERATOR	3 3 3	ONE TO TWO YEARS
		609.682-014	COLLET MAKER	3 2 2	SIX TO 12 MONTHS
		609.682-018	CROOK OPERATOR	3 2 3	THREE TO SIX MONTHS
		609.682-022	MACHINE OPERATOR, CENTRIFUGAL-CONTR	3 2 2	ONE TO TWO YEARS
		609.682-030	SCREWMAKER, AUTOMATIC	3 2 2	SIX TO 12 MONTHS
		609.684-014	LABORER, GENERAL	2 1 1	UP TO 30 DAYS
		609.685-018	PRODUCTION-MACHINE TENDER	2 2 2	30 TO 90 DAYS
		609.685-022	TRANSFER-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		609.685-026	TRIM-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		617.682-018	HOBBIING-PRESS OPERATOR	3 1 1	THREE TO SIX MONTHS
		619.682-026	HOOP BENDER, TANK	3 2 2	30 TO 90 DAYS
		705.484-014	FINAL FINISHER, FORGING DIES	3 2 2	ONE TO TWO YEARS
		705.684-034	METAL FINISHER	2 1 2	THREE TO SIX MONTHS

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OCCUPATION: 7529 MISCELLANEOUS METALWORKING AND PLASTIC WORKING MACH (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
	809.684-018 DRILLER, HAND	2 1 1 UP TO 30 DAYS
48.0504 METAL FABRICATION	607.685-014 DEBRIDGING-MACHINE OPERATOR	2 1 2 30 TO 90 DAYS
	617.482-026 STRAIGHTENING-PRESS OPERATOR	3 2 1 SIX TO 12 MONTHS
	617.682-010 BARREL-DEDENTING-MACHINE OPERATOR	2 1 1 THREE TO SIX MONTHS
	617.685-010 BENDING-MACHINE OPERATOR 2	2 1 1 30 TO 90 DAYS
	617.685-022 EXPANDING MACHINE OPERATOR	2 2 2 30 TO 90 DAYS
	619.362-010 FLANGING-ROLL OPERATOR	3 2 2 ONE TO TWO YEARS
	619.362-014 ROLL OPERATOR 1	4 3 3 TWO TO FOUR YEARS
	619.365-010 PRODUCTION-MACHINE TENDER	2 2 2 UP TO 30 DAYS
	619.485-010 SPOOL WINDER	2 1 1 UP TO 30 DAYS
	619.485-014 TWISTING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
	619.665-010 WINDING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
	619.682-030 HOOP MAKER, MACHINE	3 2 2 THREE TO SIX MONTHS
	619.685-010 BAND MAKER	2 1 1 UP TO 30 DAYS
	619.685-022 BOBBIN-WINDER TENDER	1 1 1 UP TO 30 DAYS
	619.685-038 EMBOSsing-MACHINE OPERATOR	2 2 2 UP TO 30 DAYS
	619.685-042 ETCHER, MACHINE	2 2 2 THREE TO SIX MONTHS
	619.685-050 FOUR-SLIDE-MACHINE OPERATOR 2	2 2 2 30 TO 90 DAYS
	619.685-054 HEAD-CAGE-UNIT OPERATOR	1 1 1 UP TO 30 DAYS
	619.685-058 HEEL-WASHER-STRINGING-MACHINE OPERA	2 1 1 UP TO 30 DAYS
	619.685-062 MACHINE OPERATOR 2	2 2 2 30 TO 90 DAYS
	619.685-074 REPAIRER, SHOE STICKS	1 1 1 UP TO 30 DAYS
	619.685-078 ROD-PULLER AND COILER	2 1 1 UP TO 30 DAYS
	619.685-090 WIRE-WINDING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
	706.684-054 FITTER 2	2 1 2 SIX TO 12 MONTHS
	709.684-074 SHEARER AND TRIMMER, WIRE SCREEN AN	2 1 2 30 TO 90 DAYS
	709.684-098 WIRE-FRAME-LAMP-SHADE MAKER	3 2 3 SIX TO 12 MONTHS
	709.684-102 WIRE-ROPE-SLING MAKER	3 1 2 SIX TO 12 MONTHS
	800.662-010 RIVETER, HYDRAULIC	3 1 1 SIX TO 12 MONTHS
	800.682-010 RIVETER, PORTABLE PINCH	3 1 1 THREE TO SIX MONTHS
	800.684-010 RIVETER	3 1 1 THREE TO SIX MONTHS
	800.684-014 RIVETER, PNEUMATIC	3 1 1 THREE TO SIX MONTHS
48.0506 SHEET METAL	617.682-014 BUMPER OPERATOR	3 2 1 SIX TO 12 MONTHS
	619.362-014 ROLL OPERATOR 1	4 3 3 TWO TO FOUR YEARS
	619.582-010 STRETCHER-LEVELER OPERATOR	3 2 2 SIX TO 12 MONTHS
	619.685-030 COIL-REWINDING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
	619.685-046 FORMING-ROLL OPERATOR 2	2 1 1 30 TO 90 DAYS
	703.684-010 BENCH-SHEAR OPERATOR	3 1 2 SIX TO 12 MONTHS
	730.684-074 SHEET-METAL-PATTERN CUTTER	2 2 1 30 TO 90 DAYS
	804.481-010 HOOD MAKER	4 3 3 SIX TO 12 MONTHS

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OCCUPATION: 7529 MISCELLANEOUS METALWORKING AND PLASTIC WORKING MACH (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		804.684-010	CUTTER, ALUMINUM SHEET	2 1 1	UP TO 30 DAYS
48.0602	JLWELRY DESIGN, FABRICATION, AND REPAIR	700.684-066	RING STAMPER	2 1 1	SIX TO 12 MONTHS
48.0604	PLASTICS	551.582-010	HYDRAULIC-STRAINER OPERATOR	3 1 2	SIX TO 12 MONTHS
		559.562-010	DRIER OPERATOR 1	3 2 3	ONE TO TWO YEARS
		559.682-022	FILM-CASTING OPERATOR	3 2 1	THREE TO SIX MONTHS
49.0306	MARINE MAINTENANCE	804.684-010	CUTTER, ALUMINUM SHEET	2 1 1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7530

METAL FABRICATING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines that process metal products. They may operate welding machines that join metal or plastic by heating, then fusing it together. Others may solder or braze together parts for typewriters, watches, circuit boards, or aircraft. Some join metal or plastic parts with metal fasteners. Workers may install machine attachments, load machines, operate controls, and check finished workpieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7532

WELDING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to join metal or plastic parts. Typically heat is applied to join the pieces together. Workers read work orders, charts, or diagrams that describe the work to be done. They adjust the machines to handle objects of different sizes, load and position objects to be welded, and move controls to regulate machine actions and conditions. Once parts have been joined, they may examine or measure them to make sure standards are met.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	614.684-010	BILLET ASSEMBLER	3 2 2	THREE TO SIX MONTHS
		614.685-026	WIRE-DRAWING-MACHINE TENDER	2 1 2	30 TO 90 DAYS
		727.662-010	LEAD BURNER, MACHINE	3 2 2	SIX TO 12 MONTHS
48.0508	WELDING	814.382-010	WELDING-MACHINE OPERATOR, FRICTION	3 3 2	SIX TO 12 MONTHS
		814.682-010	WELDING-MACHINE OPERATOR, ULTRASONI	3 3 3	THREE TO SIX MONTHS
		814.684-010	WELDER, EXPLOSION	3 3 2	SIX TO 12 MONTHS
		815.382-014	WELDING-MACHINE OPERATOR, ELECTROSL	3 3 3	THREE TO SIX MONTHS
		815.682-010	LASER-BEAM-MACHINE OPERATOR	3 3 3	THREE TO SIX MONTHS
		815.682-014	WELDING-MACHINE OPERATOR, THERMIT	3 3 3	30 TO 90 DAYS

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OCCUPATION: 7533

SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to solder, weld, braze, or harden metal parts. They join metal parts of products such as typewriters, watches, cars, aircraft, circuit boards, and jewelry. They follow work orders, sketches, blueprints or charts. They position parts to be joined and adjust buttons, guides, and other devices to control the action of the machines. They may light and regulate furnaces or torches using electricity to bond or harden parts. They examine finished pieces for defects and discard defective ones.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0102	BUSINESS MACHINE REPAIR	706.685-010	TYPE-SOLDERING-MACHINE TENDER	2 1 2	30 TO 90 DAYS
47.0408	WATCH REPAIR	715.685-058	SOLDERER	2 1 1	UP TO 30 DAYS
48.0508	WELDING	715.685-058	SOLDERER	2 1 1	UP TO 30 DAYS
		813.482-010	BRAZER, FURNACE	3 2 3	THREE TO SIX MONTHS
		813.685-010	BRAZER, CONTROLLED ATMOSPHERIC FURN	3 2 3	THREE TO SIX MONTHS
		819.685-010	WELDING-MACHINE TENDER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 7539

FABRICATING MACHINE OPERATORS AND TENDERS, MISCELLANEOUS

These workers operate or tend machines used to make or form products from metal or plastic. These products include: barbed wire, metal springs, furniture, bullets, glass frames, and zipper parts. They may use one or more machines. They load materials in the machines and may adjust or set machine controls. They flip switches, press pedals, or move other controls to operate the machines. Once the products have been formed, they may examine or measure them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	616.665-010	TENSIONING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		616.685-046	PAPERBACK-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		616.685-050	POCKET-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		616.685-066	SLAT TWISTER	1	1	1	UP TO 30 DAYS
		616.685-082	SWEEP-PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		616.685-090	ZIPPER CUTTER	2	1	1	UP TO 30 DAYS
		690.685-326	ROLL-OVER-PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		690.685-490	WIRE-WINDING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		691.485-010	WIRE-STRIPPING-AND-CUTTING-MACHINE	2	1	2	UP TO 30 DAYS
		691.685-018	LEAD FORMER	2	1	1	UP TO 30 DAYS
		691.685-022	PAIRING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		692.685-070	DESIGN INSERTER	2	1	2	30 TO 90 DAYS
		692.685-078	DYNAMITE-CARTRIDGE CRIMPER	3	2	2	THREE TO SIX MONTHS
		692.685-138	PROTECTOR-PLATE ATTACHER	1	1	1	UP TO 30 DAYS
		692.685-230	TRIM ATTACHER	2	1	2	UP TO 30 DAYS
		692.685-270	ZIPPER-MACHINE OPERATOR	2	1	2	UP TO 30 DAYS
		694.385-010	SHOTGUN-SHELL-ASSEMBLY-MACHINE OPLR	2	1	2	30 TO 90 DAYS
		694.685-010	ANVIL-SEATING-PRESS OPERATOR	2	1	2	30 TO 90 DAYS
		694.685-014	BULLET-ASSEMBLY-PRESS OPERATOR	2	1	2	30 TO 90 DAYS
		699.685-026	POWER-SCREWDRIVER OPERATOR	1	1	1	UP TO 30 DAYS
		699.685-030	RIVETING-MACHINE OPERATOR 2	1	1	1	UP TO 30 DAYS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*699.685-034	TUBING OILER	2	1	2	30 TO 90 DAYS
		*806.685-010	CABLE STRETCHER AND TESTER	3	2	1	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	701.684-026	SAW-EDGE FUSER, CIRCULAR	2	2	2	30 TO 90 DAYS
48.0504	METAL FABRICATION	616.382-010	BARBED-WIRE-MACHINE OPERATOR	3	1	1	SIX TO 12 MONTHS
		616.485-010	BENCH WORKER	2	2	2	30 TO 90 DAYS
		616.485-014	SPRING COILER	2	1	1	30 TO 90 DAYS
		616.582-010	FENCE-MAKING MACHINE OPERATOR	3	2	1	THREE TO SIX MONTHS
		616.662-010	HYDRAULIC PRESS OPERATOR	3	1	1	THREE TO SIX MONTHS
		616.682-030	NAIL-ASSEMBLY-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		616.685-014	CINCHING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS

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OCCUPATION: 7539 MISCELLANEOUS FABRICATING MACHINE OPERATORS AND TEN (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		616.685-018	COIL ASSEMBLER, MACHINE	2	1	1	THREE TO SIX MONTHS
		616.685-022	FABRIC-MACHINE OPERATOR 2	2	1	1	30 TO 90 DAYS
		616.685-026	HEDDLE-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		616.685-030	KNITTER, WIRE MESH	2	2	2	UP TO 30 DAYS
		616.685-038	METAL-SPONGE-MAKING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		616.685-042	MULTI-OPERATION-FORMING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		616.685-054	RIVETER	2	1	1	UP TO 30 DAYS
		616.685-058	RIVETING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		616.685-062	SCROLL-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		616.685-070	SPIRAL SPRING WINDER	2	1	1	30 TO 90 DAYS
		616.685-074	SPIRAL WEAVER	2	2	2	30 TO 90 DAYS
		616.685-078	SWAGER OPERATOR	2	1	1	UP TO 30 DAYS
		617.585-010	SWAGING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		617.685-010	NAIL-MAKING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		617.685-030	RIPPER	2	1	1	UP TO 30 DAYS
		617.685-034	ROLL-FORMING-MACHINE OPERATOR 2	2	1	1	UP TO 30 DAYS
		619.685-066	METAL FABRICATOR HELPER	2	1	1	THREE TO SIX MONTHS
		692.685-206	STOP ATTACHER	2	1	2	UP TO 30 DAYS
		709.684-030	CAGE MAKER	3	1	2	SIX TO 12 MONTHS
48.0506	SHEET METAL	617.685-018	EMBOSSING-MACHINE OPERATOR	2	2	2	THREE TO SIX MONTHS
48.0604	PLASTICS	690.685-154	ELECTRIC-SEALING-MACHINE OPERATOR	2	1	2	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	669.685-086	STITCHING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS

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OCCUPATION: 7540

METAL AND PLASTIC PROCESSING MACHINE OPERATORS AND TENDERS

These workers operate machines that process metal or plastic products. They may run machines that mold or cast such products as shotgun shells, pig iron, and contact lenses. They may tend machines that plate or coat products with metal to build up, decorate, or protect the item. Some tend furnaces that harden, strengthen, or refine metal or melt ore. Workers install attachments, load machines, adjust controls, watch operations, and check finished work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7542

MOLDING AND CASTING MACHINE OPERATORS AND TENDERS

These people operate or tend machines used to mold or cast metal, plastic, or glass products. These products include: bullets, glass tubes, iron billets, contact lenses, and a variety of other products. They also may control equipment used to heat, melt, or cure materials before they are molded or cast. Generally, they follow blueprints or work orders. They watch meters and adjust machine controls. They may weigh and mix materials, install machine attachments, and test or measure finished products. They also may clean machinery or parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	556.665-018	MOLDER, PIPE COVERING	2	1	1	30 TO 90 DAYS
		556.685-022	COMPRESSION-MOLDING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		556.685-038	INJECTION-MOLDING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		556.685-082	VACUUM PLASTIC-FORMING-MACHINE OPER	2	1	1	UP TO 30 DAYS
		590.685-018	DIAMOND BLENDER	2	2	2	THREE TO SIX MONTHS
		690.685-090	CONTACT-LENS MOLDER	2	2	2	30 TO 90 DAYS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKIN	974.682-010	BLOCKER, METAL BASE	4	2	2	TWO TO FOUR YEARS
48.0208	PRINTING PRESS OPERATIONS	974.682-010	BLOCKER, METAL BASE	4	2	2	TWO TO FOUR YEARS
48.0502	FOUNDRY WORK	502.362-010	SHOT DROPPER	3	3	3	ONE TO TWO YEARS
		502.382-010	BULLET-SLUG-CASTING-MACHINE OPERATO	3	2	2	SIX TO 12 MONTHS
		502.482-010	CASTER	2	2	2	30 TO 90 DAYS
		502.482-014	CASTING-MACHINE OPERATOR, AUTOMATIC	3	2	2	THREE TO SIX MONTHS
		502.682-010	BULLET-CASTING OPERATOR	3	2	2	THREE TO SIX MONTHS
		502.684-014	MILL HELPER	2	2	2	30 TO 90 DAYS
		502.685-010	MOLDER, LEAD INGOT	2	2	2	UP TO 30 DAYS
		502.685-014	RE MELTER	2	2	2	UP TO 30 DAYS
		512.685-022	RECLAMATION KETTLE TENDER, METAL	2	1	1	30 TO 90 DAYS
		514.362-010	PIG-MACHINE OPERATOR	3	2	2	SIX TO 12 MONTHS
		514.562-010	CENTRIFUGAL-CASTING-MACHINE OPERATO	3	2	2	ONE TO TWO YEARS
		514.582-010	VACUUM CASTER	2	1	2	SIX TO 12 MONTHS
		514.662-010	CASTING OPERATOR	3	2	2	SIX TO 12 MONTHS
		514.682-010	CASTING-WHEEL OPERATOR	3	2	2	THREE TO SIX MONTHS
		514.685-010	CENTRIFUGAL-CASTING-MACHINE OPERATO	3	1	1	30 TO 90 DAYS
		514.685-014	CENTRIFUGAL-CASTING-MACHINE OPERATO	2	1	1	30 TO 90 DAYS
		514.685-018	DIE-CASTING-MACHINE OPERATOR 2	2	1	1	UP TO 30 DAYS
		514.685-026	TUBE-CLEANING OPERATOR	2	1	1	UP TO 30 DAYS
		518.664-010	MOLD MAKER	2	1	2	THREE TO SIX MONTHS
		518.682-010	MACHINE MOLDER	3	2	2	THREE TO SIX MONTHS
		518.684-010	CORE SETTER	2	1	1	UP TO 30 DAYS
		518.684-014	COREMAKER, PIPE	2	1	1	30 TO 90 DAYS

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OCCUPATION: 7542 MOLDING AND CASTING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		518.684-018	MOLD CLOSER	2	1	1	30 TO 90 DAYS
		518.685-014	COREMAKER, MACHINE 1	2	1	2	30 TO 90 DAYS
		518.685-018	COREMAKER, MACHINE 2	2	1	2	UP TO 30 DAYS
		518.685-022	COREMAKER, MACHINE 3	2	1	2	UP TO 30 DAYS
		518.685-026	SHELL MOLDER	2	1	2	UP TO 30 DAYS
		518.685-030	SHELL-MOLD-BONDING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		518.687-022	WAX-PATTERN COATER	2	1	1	UP TO 30 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	502.682-018	CENTRIFUGAL-CASTING-MACHINE OPERATOR	3	2	2	SIX TO 12 MONTHS
48.0604	PLASTICS	556.585-010	CASTING-ROOM OPERATOR	3	2	2	THREE TO SIX MONTHS
		556.665-010	CAKE-PRESS OPERATOR	3	2	1	THREE TO SIX MONTHS
		556.665-014	CORRUGATOR OPERATOR	3	2	2	THREE TO SIX MONTHS
		556.685-058	PILLING-MACHINE OPERATOR	2	1	1	THREE TO SIX MONTHS
		556.685-086	BLOW-MOLDING-MACHINE TENDER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 7543

PLATING AND COATING MACHINE OPERATORS AND TENDERS

These people operate and tend machines that coat or cover objects with metal, plastic, or other materials, to build up, protect, or decorate their surfaces. These workers start, stop, and control machines by adjusting controls. Some fill machine units with coating materials and then dump or dip objects to coat or plate them. Some use electric current to bond coating materials. These workers watch gauges or feel, examine, or measure coatings to make sure they are the right thickness.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	500.362-014	PLATER, BARREL	3	3 3	SIX TO 12 MONTHS
		500.365-010	PLATER, PRODUCTION	3	2 2	THREE TO SIX MONTHS
		500.384-010	MATRIX PLATER	3	2 2	THREE TO SIX MONTHS
		500.485-010	ZINC-PLATING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		500.682-010	ANODIZER	3	2 3	THREE TO SIX MONTHS
		500.684-010	ELECTROFORMER	2	1 1	THREE TO SIX MONTHS
		500.684-014	MATRIX WORKER	2	2 2	UP TO 30 DAYS
		500.684-018	PLATE FORMER	3	2 2	THREE TO SIX MONTHS
		500.684-022	SILVER SPRAY WORKER	2	2 2	THREE TO SIX MONTHS
		500.685-010	ETCHER, ELECTROLYTIC	2	2 2	UP TO 30 DAYS
		501.485-010	WIRE-COATING OPERATOR, METAL	2	1 1	UP TO 30 DAYS
		501.685-010	PLATER, HOT DIP	2	1 1	THREE TO SIX MONTHS
		501.685-014	TINNING-EQUIPMENT TENDER	1	1 1	UP TO 30 DAYS
		503.685-010	COATER	3	2 2	THREE TO SIX MONTHS
		505.382-014	WELDING-ROD COATER	3	3 2	ONE TO TWO YEARS
		505.482-010	PASTING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		505.684-010	ELECTROLESS PLATER	2	2 2	30 TO 90 DAYS
		505.684-014	METAL SPRAYER, PRODUCTION	2	2 2	30 TO 90 DAYS
		505.685-010	BROWNING PROCESSOR	2	2 2	30 TO 90 DAYS
		505.685-014	METAL-SPRAYING-MACHINE OPERATOR, AU	2	2 2	UP TO 30 DAYS
		505.685-018	VACUUM-METALIZER OPERATOR	2	2 2	30 TO 90 DAYS
		509.684-010	ENAMELER	3	2 2	SIX TO 12 MONTHS
		509.685-022	CERAMIC COATER, MACHINE	2	2 1	UP TO 30 DAYS
		509.685-026	GETTERING-FILAMENT-MACHINE OPERATOR	2	2 1	30 TO 90 DAYS
		509.685-034	LACQUER-DIPPING-MACHINE OPERATOR	2	2 1	UP TO 30 DAYS
		509.685-038	LUBRICATING-MACHINE TENDER	2	2 1	UP TO 30 DAYS
		539.685-014	IMPREGNATION OPERATOR	2	1 2	30 TO 90 DAYS
		554.685-014	COATING-AND-BAKING OPERATOR	3	1 2	30 TO 90 DAYS
		599.685-054	LACQUERER	2	1 1	30 TO 90 DAYS
		599.685-062	OXIDIZED-FINISH PLATER	2	1 2	UP TO 30 DAYS
		692.685-238	VACUUM-APPLICATOR OPERATOR	2	1 1	UP TO 30 DAYS
		694.685-018	BULLET-LUBRICATING-MACHINE OPERATOR	1	1 1	UP TO 30 DAYS
		694.685-046	PRIMER-WATERPROOFING-MACHINE OPERAT	2	1 2	UP TO 30 DAYS
		719.684-014	PLATER	3	2 2	SIX TO 12 MONTHS

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OCCUPATION: 7543 PLATING AND COATING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		843.482-010	METAL SPRAYER, CORROSION PREVENTION	3 2 2	SIX TO 12 MONTHS
46.0408	PAINTING AND DECORATING	599.685-090	SPRAY-MACHINE TENDER	3 2 2	THREE TO SIX MONTHS
		599.685-102	TUBE COATER	2 1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	505.682-010	SPRAYER OPERATOR	3 2 2	30 TO 90 DAYS
		509.685-030	IMPREGNATOR	2 2 2	UP TO 30 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	590.685-046	JEWELRY COATER	2 1 2	UP TO 30 DAYS
48.0604	PLASTICS	554.382-014	PLASTICS-SPREADING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		554.585-014	COATER OPERATOR	3 1 2	30 TO 90 DAYS

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OCCUPATION: 7544

HEATING EQUIPMENT OPERATORS AND TENDERS

These workers control furnaces used to harden, refine, or strengthen metal objects or to melt ore or metal. They adjust controls to bring the furnace to the required temperature. They then load the metal into the furnace by hand, or by using a metal basket or skids. They determine when the metal has reached the correct temperature by observing its color and the furnace's temperature gauge. After a specified time, they remove the hot metal from the oven, using tongs or mechanical devices. They may then quench the metal in water, oil, or other baths.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	553.685-014	BAGGER	2 1 1	30 10 90 DAYS
		613.362-010	HEATER	3 2 2	ONE TO TWO YEARS
		613.462-014	FURNACE OPERATOR	3 3 2	SIX TO 12 MONTHS
		619.682-022	HEATER	3 2 2	THREE TO SIX MONTHS
47.0408	WATCH REPAIR	504.382-010	HARDENER	4 3 3	ONE TO TWO YEARS
48.0502	FOUNDRY WORK	504.682-010	ANNEALER	3 2 1	THREE TO SIX MONTHS
		504.682-018	HEAT TREATER 2	3 3 2	THREE TO SIX MONTHS
		512.362-010	FIRST HELPER	3 2 2	ONE TO TWO YEARS
		512.362-014	FURNACE OPERATOR	4 2 2	SIX TO 12 MONTHS
		512.362-018	FURNACE OPERATOR	3 2 3	SIX TO 12 MONTHS
		512.382-010	OXYGEN-FURNACE OPERATOR	3 2 2	SIX TO 12 MONTHS
		512.662-010	CUPOLA TENDER	3 2 2	THREE TO SIX MONTHS
		513.685-010	SINTER FEEDER	3 2 2	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.382-010	HARDENER	4 3 3	ONE TO TWO YEARS
		504.382-014	HEAT TREATER 1	4 3 3	TWO TO FOUR YEARS
		504.382-018	HEAT-TREATER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		504.565-010	CHARGER OPERATOR	3 2 3	THREE TO SIX MONTHS
		504.665-010	SLAB-DEPIILER OPERATOR	3 2 2	THREE TO SIX MONTHS
		504.682-010	ANNEALER	3 2 1	THREE TO SIX MONTHS
		504.682-014	CASE HARDENER	3 3 2	THREE TO SIX MONTHS
		504.682-018	HEAT TREATER 2	3 3 2	THREE TO SIX MONTHS
		504.682-022	HEAT-TREATING BLUER	3 3 3	THREE TO SIX MONTHS
		504.682-026	TEMPERER	3 3 2	THREE TO SIX MONTHS
		504.685-014	FLAME-HARDENING-MACHINE OPERATOR	2 2 1	UP TO 30 DAYS
		504.685-022	INDUCTION-MACHINE OPERATOR	2 2 1	UP TO 30 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	504.687-010	ANNEALER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7549

METAL AND PLASTIC PROCESSING MACHINE OPERATORS AND TENDERS, MISC.

These people operate or tend equipment used to clean, coat, or otherwise process products or materials. For example, some clean objects and coat them with wax or a plating solution. Some use chemicals to clean grease and dirt from metal objects to prepare them for processing. They move controls to regulate the machines, and may read gauges and meters. They may load objects or materials into containers for processing. They may examine, test, or measure products or materials. They may also use handtools to install and adjust machine units.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	500.384-014	MATRIX-BATH ATTENDANT	3 3 3	SIX TO 12 MONTHS
		503.685-014	DIP-LUBE OPERATOR	2 1 1	UP TO 30 DAYS
		503.685-018	DRIFTER	2 2 1	30 TO 90 DAYS
		503.685-026	FURNACE-AND-WASH-EQUIPMENT OPERATOR	2 2 2	UP TO 30 DAYS
		503.685-030	METAL-CLEANER, IMMERSION	2 2 1	UP TO 30 DAYS
		503.685-034	METAL-WASHING-MACHINE OPERATOR	2 2 2	UP TO 30 DAYS
		503.685-038	SANDBLAST OPERATOR	2 2 1	30 TO 90 DAYS
		503.685-042	SANDBLAST-OR-SHOTBLAST-EQUIPMENT TE	2 2 1	UP TO 30 DAYS
		503.685-046	STRIP-TANK TENDER	2 2 1	30 TO 90 DAYS
		509.382-014	DENTAL-AMALGAM PROCESSOR	3 2 2	THREE TO SIX MONTHS
		509.384-010	CASE PREPARER-AND-LINER	3 2 2	THREE TO SIX MONTHS
		509.685-054	TANK TENDER	3 2 2	SIX TO 12 MONTHS
		511.682-010	DUST COLLECTOR, ORE CRUSHING	3 1 2	30 TO 90 DAYS
		559.682-058	STRETCH-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.685-078	FOAM-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		690.382-010	SHEETER OPERATOR	3 2 2	THREE TO SIX MONTHS
		690.682-058	PLANISHING-PRESS OPERATOR	3 2 2	SIX TO 12 MONTHS
		690.682-062	PRESS OPERATOR	3 2 2	THREE TO SIX MONTHS
		694.682-014	HYDRAULIC-PRESSURE-AUTO-FRETTAGE-MA	3 2 2	SIX TO 12 MONTHS
47.0105	INDUSTRIAL ELECTRONICS	590.685-030	ETCHER, PRINTED CIRCUITS	2 2 2	UP TO 30 DAYS
		725.685-010	DISPLAY-SCREEN FABRICATOR	2 1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	503.362-014	SHOTBLAST-EQUIPMENT OPERATOR	3 2 3	SIX TO 12 MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-042	MELTER	2 1 2	UP TO 30 DAYS
48.0604	PLASTICS	554.682-018	ROLL OPERATOR	3 1 1	SIX TO 12 MONTHS
		554.685-010	BULK-SEALER OPERATOR	2 1 1	UP TO 30 DAYS
		559.382-050	SHREDDING-FLOOR-EQUIPMENT OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.682-070	SCREEN-MACHINE OPERATOR	3 1 2	SIX TO 12 MONTHS
		754.685-014	ASSEMBLY-MACHINE TENDER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7630

WOODWORKING MACHINE OPERATORS AND TENDERS

These workers operate woodworking machines such as lathes, routers, jointers, planers, and sanders. They may control wood as it is turned and shaped for furniture. They may use machines that plane or trim lumber or wood while others sand wood to remove dirt and rough surfaces. Workers may also operate machines that nail or tack wood pieces together for such products as picture frames. Workers adjust machines, run wood through the process, and check finished work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7631

LATHE AND TURNING MACHINE OPERATORS AND TENDERS

People in these jobs operate or tend machines that turn and shape wood. They make wood products such as barrels, kegs, gun stocks, and pipe bowls. They must follow blueprints or drawings to lay out cutting lines on wooden stock. They also use measuring devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	663.682-010	BARKER OPERATOR	2 1 1	30 TO 90 DAYS
		664.682-018	SKIVING-MACHINE OPERATOR	2 1 1	THREE TO SIX MONTHS
		664.682-022	SPAR-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		739.685-034	SHANK THREADER	2 1 1	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	664.382-014	WOOD-TURNING-LATHE OPERATOR	4 2 1	SIX TO 12 MONTHS
		664.682-010	BARREL-LATHE OPERATOR, INSIDE	3 1 1	THREE TO SIX MONTHS
		664.682-014	BARREL-LATHE OPERATOR, OUTSIDE	2 1 1	THREE TO SIX MONTHS
		664.684-010	BOWL TURNER	2 1 1	UP TO 30 DAYS
		664.685-010	BRIAR CUTTER	2 1 1	UP TO 30 DAYS
		664.685-018	COPY-LATHE TENDER	2 1 1	30 TO 90 DAYS
		664.685-026	SPITTLE SPOTTER	2 1 1	UP TO 30 DAYS
		665.685-010	BOTTOM-TURNING-LATHE TENDER	2 1 1	30 TO 90 DAYS
		669.682-018	BUCKET TURNER	2 1 1	THREE TO SIX MONTHS
		669.685-078	SMOKING-PIPE DRILLER AND THREADER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7632

ROUTER AND PLANER MACHINE OPERATORS AND TENDERS

These people operate or tend machines used to shape, plane, and trim planks, timber, and woodstock. They read work orders and install the required bits, cutters, rollers, and punches in the machines. They also adjust machine jigs, guides, and stops to control the depth and length of cut. They may clamp workpieces in a holding device or slide them against a machine guide. They start the machines, watch them operate, and check finished work for defects. They use handtools and measuring devices to adjust and replace machine parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	665.685-022	PLYWOOD-SCARTER TENDER	2	1 1	THREE TO SIX MONTHS
		669.682-062	PLUGGING-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS
03.0403	FOREST PRODUCTS UTILIZATION	665.482-018	TIMBER-SIZER OPERATOR	3	2 1	THREE TO SIX MONTHS
47.0402	GUNSMITHING	669.682-050	INLETTER	3	1 2	THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	665.382-014	LOCK-CORNER-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		665.482-018	TIMBER-SIZER OPERATOR	3	2 1	THREE TO SIX MONTHS
		665.685-014	END FRAZER	2	2 1	30 TO 90 DAYS
		665.685-026	SCOOPING-MACHINE TENDER	3	2 2	THREE TO SIX MONTHS
		669.682-010	ADZING-AND-BORING-MACHINE OPERATOR	3	2 3	SIX TO 12 MONTHS
		669.682-022	CHUCKING-AND-BORING-MACHINE OPERATO	3	2 2	THREE TO SIX MONTHS

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OCCUPATION: 7633

SAWING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to saw wood to size or to make parts or products. They may begin by measuring and marking the wood to be cut. They also may examine stock for defects or to determine the best cuts to be made. They adjust machine stops, guides, and blades before each sawing operation. They operate the machines by pressing controls to start, position, and stop the cutting blades and advance or position the stock. They may also guide stock into the cutting teeth by hand. They may unload, sort, stack, and measure woodstock and sharpen or replace worn saw blades.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	667.482-010	LOG-CUT-OFF SAWYER, AUTOMATIC	3 3 3	SIX TO 12 MONTHS
		667.482-022	TRIMMER SAWYER	3 2 1	THREE TO SIX MONTHS
		667.485-010	SHINGLE SAWYER	3 1 1	THREE TO SIX MONTHS
		667.662-010	HEAD SAWYER	3 2 1	TWO TO FOUR YEARS
		667.682-026	EDGER, AUTOMATIC	3 2 1	SIX TO 12 MONTHS
		667.682-030	GANG SAWYER	3 2 1	SIX TO 12 MONTHS
		667.682-034	HEAD SAWYER, AUTOMATIC	3 2 1	ONE TO TWO YEARS
		667.682-038	HEADING-SAW OPERATOR	3 1 1	THREE TO SIX MONTHS
		667.682-046	PACKAGER, HEAD	2 1 1	THREE TO SIX MONTHS
		667.682-050	PONY EDGER	3 2 1	ONE TO TWO YEARS
		667.682-058	RESAW OPERATOR	3 2 1	ONE TO TWO YEARS
		667.682-070	SHAKE SAWYER	3 2 1	THREE TO SIX MONTHS
		667.682-074	STAVE-BOLT EQUALIZER	2 1 1	THREE TO SIX MONTHS
		667.682-078	STAVE-LOG-CUT-OFF SAW OPERATOR	3 2 1	THREE TO SIX MONTHS
		667.682-082	STOCK-PATCH SAWYER	3 2 1	THREE TO SIX MONTHS
		667.685-022	BOLTER	2 1 1	30 TO 90 DAYS
		667.685-026	BUZZSAW OPERATOR	2 1 1	30 TO 90 DAYS
		667.685-046	SAWYER, CORK SLABS	1 1 1	UP TO 30 DAYS
		667.685-050	SHINGLE TRIMMER	3 1 1	THREE TO SIX MONTHS
		667.685-054	SLASHER OPERATOR	2 1 1	UP TO 30 DAYS
		667.685-058	STAVE-LOG-RIPSAW OPERATOR	2 1 1	THREE TO SIX MONTHS
		669.685-026	CIRCLE-CUTTING-SAW OPERATOR	1 1 1	UP TO 30 DAYS
03.0403	FOREST PRODUCTS UTILIZATION	667.685-034	CUT-OFF SAWYER, LOG	2 1 1	UP TO 30 DAYS
		667.686-014	SAWMILL WORKER	3 1 1	30 TO 90 DAYS
48.0703	MILLWORK AND CABINET MAKING	667.382-010	STOCK GRADER	3 2 2	SIX TO 12 MONTHS
		667.482-014	POCKET CUTTER	3 2 2	THREE TO SIX MONTHS
		667.482-018	STOCK CUTTER	3 2 2	THREE TO SIX MONTHS
		667.662-014	MACHINE-TANK OPERATOR	3 2 2	SIX TO 12 MONTHS
		667.682-010	BAND-SCROLL-SAW OPERATOR	3 2 2	SIX TO 12 MONTHS
		667.682-014	BOTTOM-SAW OPERATOR	3 1 1	THREE TO SIX MONTHS
		667.682-018	CORNER-TRIMMER OPERATOR	3 1 1	SIX TO 12 MONTHS

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OCCUPATION: 7633 SAWING MACHINE OPERATORS AND TENDERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		667.682-022	CUT-OFF-SAW OPERATOR	3	2 2	THREE TO SIX MONTHS
		667.682-042	JIGSAW OPERATOR	3	1 1	THREE TO SIX MONTHS
		667.682-054	RADIAL-ARM-SAW OPERATOR	3	1 2	THREE TO SIX MONTHS
		667.682-062	RIP-AND-GROOVE-MACHINE OPERATOR	3	2 1	THREE TO SIX MONTHS
		667.682-066	RIPSAW OPERATOR	3	1 1	THREE TO SIX MONTHS
		667.682-086	VARIFTY-SAW OPERATOR	3	2 2	SIX TO 12 MONTHS
		667.685-010	BAND-SAW OPERATOR	2	1 1	UP TO 30 DAYS
		667.685-014	BAND-SAW OPERATOR	1	1 1	UP TO 30 DAYS
		667.685-018	BEADING SAWYER	2	1 1	UP TO 30 DAYS
		667.685-030	COB SAWYER	1	1 1	UP TO 30 DAYS
		667.685-038	DOWEL POINTER	2	1 1	UP TO 30 DAYS
		667.685-042	KERFER-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		667.685-062	STAVE-SAW OPERATOR	3	1 1	THREE TO SIX MONTHS
		667.685-066	TURNING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		669.682-034	CROZE-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS

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OCCUPATION: 7634

SANDING MACHINE OPERATORS AND TENDERS

These people operate and tend machines used to rough, smooth, or clean wooden surfaces. For example, they may operate a sanding machine to smooth surfaces on wood furniture, remove excess glue and lead from pencils, or clean and shape parts of smoking pipes. They control the machines by turning handwheels and pushing buttons, pedals, or levers. They also may use handtools to position or replace machine parts. Many workers perform other tasks, as required by specific jobs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	662.682-018	STROKE-BELT-SANDER OPERATOR	3 2 3	THREE TO SIX MONTHS
		662.685-010	CORK GRINDER	2 1 1	UP TO 30 DAYS
		662.685-022	SANDING-MACHINE BUFFER	2 1 1	UP TO 30 DAYS
		662.685-026	SANDING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		761.682-010	LATHE SANDER	2 1 1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	662.685-042	WOOD-HEEL BACK-LINER	2 1 1	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	662.685-014	CYLINDER-SANDER OPERATOR	2 1 1	UP TO 30 DAYS
		662.685-018	LAST SCOURER	2 1 1	THREE TO SIX MONTHS
		662.685-030	SIZING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		662.685-034	SPEED-BELT-SANDER TENDER	2 1 1	UP TO 30 DAYS
		662.685-038	TURNING-SANDER OPERATOR	2 1 1	30 TO 90 DAYS
		664.685-014	BUCKET CHUCKER	2 1 1	30 TO 90 DAYS
		664.685-022	FRAZER	2 1 1	30 TO 90 DAYS
		669.685-062	HEADING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		761.682-014	SANDER, MACHINE	2 1 2	30 TO 90 DAYS
		761.684-030	SANDER	2 1 1	UP TO 30 DAYS
		761.684-034	SANDER, PORTABLE MACHINE	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7635

SHAPING AND JOINING MACHINE OPERATORS AND TENDERS

These people operate or tend machines used to shape or join wooden workpieces. For example, they may form fuel logs from sawdust, shape parts for furniture or press glued parts together to form doors. They adjust the machines as required and mount, load, or dump wood pieces in the machines to be shaped. They then move levers and other controls to regulate machine actions. They may also slide woodstock under a knife while it is being cut. They examine finished workpieces for defects, and may clean and oil the machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	I	
00.0000	NO CIP ASSIGNED	569.685-010	ARTIFICIAL-LOG-MACHINE OPERATOR	2	2	1	THREE TO SIX MONTHS
		569.685-014	BENDER, MACHINE	2	1	1	30 TO 90 DAYS
		569.685-030	CORK MOLDER	2	2	1	30 TO 90 DAYS
		663.585-010	CLIPPER, AUTOMATIC	2	1	1	THREE TO SIX MONTHS
		663.585-014	VENEER CLIPPER	2	1	1	THREE TO SIX MONTHS
		663.685-022	PUNCHER	2	1	1	UP TO 30 DAYS
		663.685-026	ROUNDING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		663.685-030	SHAKE BACKBOARD NOTCHER	2	1	1	UP TO 30 DAYS
		663.685-034	SLICING-MACHINE TENDER	2	1	1	30 TO 90 DAYS
		663.685-038	SPLITTER TENDER	2	1	1	UP TO 30 DAYS
		663.685-042	SPLITTING-MACHINE TENDER	2	1	1	30 TO 90 DAYS
		663.685-046	STAVE-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		665.682-014	HEADER	3	3	2	THREE TO SIX MONTHS
		669.685-014	BASKET ASSEMBLER 1	2	1	1	UP TO 30 DAYS
		669.685-070	ROOF-TRUSS-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		669.685-082	SQUEEZER OPERATOR	2	1	1	30 TO 90 DAYS
48.0703	MILLWORK AND CABINET MAKING	663.685-018	MOLDING CUTTER	2	1	1	UP TO 30 DAYS
		665.482-010	JOINER OPERATOR	3	2	3	SIX TO 12 MONTHS
		665.685-030	STAVE JOINER	2	1	1	30 TO 90 DAYS
		669.662-018	TONGUE-AND-GROOVE-MACHINE OPERATOR	3	2	2	SIX TO 12 MONTHS
		669.685-022	BOTTOM-HOOP DRIVER	2	1	1	30 TO 90 DAYS
		669.685-034	COAT-HANGER-SHAPER-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		669.685-046	DOVETAIL-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS

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OCCUPATION: 7636

NAILING AND TACKING MACHINE OPERATORS AND TENDERS

These workers operate and tend machines that join parts of wooden products with nails, tacks, staples, or other fasteners. For example, some tend a nailing machine to join picture frames or attach trimming to wooden stock. Others tend machines that staple basket hoops and slats together. These workers position and tighten machine parts, start and stop the machine, position work pieces to be joined, and adjust machine controls. They may use hand tools, such as wrenches, to adjust machine parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	669.685-018	BLIND-SLAT-STAPLING-MACHINE OPERATO	2 1 1	UP TO 30 DAYS
		669.685-074	SLAT-BASKET MAKER, MACHINE	2 1 1	UP TO 30 DAYS
		690.685-226	HEFT-NAILING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	669.685-042	CORRUGATED-FASTENER DRIVER	2 1 1	UP TO 30 DAYS
		669.685-066	NAILING-MACHINE OPERATOR, AUTOMATIC	2 2 1	UP TO 30 DAYS

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OCCUPATION: 7639

WOODWORKING MACHINE OPERATORS AND TENDERS, MISCELLANEOUS

These workers operate or tend machines used to cut, shape, bore, mix, or treat wood pieces or materials. Some workers tend machines that mix wood chips and glue to make building board, heat wood to distill it or remove dampness. They may coat or treat wood with preservatives or fireproof solutions. They may shape wood into rifle stocks or pipe bowls or other items. These workers follow work orders and charts. They adjust machine settings, load materials into the machines, and watch for problems with machine operations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	552.685-022	REIORT-CONDENSER ATTENDANT	3	2	2	30 10 90 DAYS
		560.465-010	CHIP-MIXING-MACHINE OPERATOR	3	3	2	30 10 90 DAYS
		560.585-010	MIXING-MACHINE TENDER	2	2	2	30 10 90 DAYS
		561.362-010	TREATING ENGINEER	3	3	3	ONE TO TWO YEARS
		561.665-010	TANKER	2	1	1	30 10 90 DAYS
		562.485-010	WHITING-MACHINE OPERATOR	2	2	2	THREE TO SIX MONTHS
		562.665-010	LOG COOKER	2	1	1	UP TO 30 DAYS
		562.665-014	STEAM-BOX OPERATOR	2	2	2	UP TO 30 DAYS
		562.685-014	IMPREGNATOR	2	2	2	UP TO 30 DAYS
		562.685-018	OPERATOR, PREFINISH	3	2	2	SIX TO 12 MONTHS
		562.687-010	DYER	2	1	1	UP TO 30 DAYS
		563.585-010	DRIER TENDER	3	2	2	THREE TO SIX MONTHS
		563.662-010	TREATING-PLANT OPERATOR	3	2	2	THREE TO SIX MONTHS
		563.685-014	CLOTHESPIN-DRIER OPERATOR	1	1	1	UP TO 30 DAYS
		563.685-018	DRY-HOUSE ATTENDANT	2	1	1	30 10 90 DAYS
		563.685-022	VENEER DRIER	2	1	1	UP TO 30 DAYS
		563.685-026	VENEER REDRIER	2	1	1	UP TO 30 DAYS
		564.682-010	CHIPPING-MACHINE OPERATOR	3	1	1	SIX TO 12 MONTHS
		564.682-014	FLAKE-CUTTER OPERATOR	3	2	2	THREE TO SIX MONTHS
		564.682-018	MILLER, WOOD FLOUR	3	2	2	ONE TO TWO YEARS
		564.685-014	CHIPPER	2	1	1	UP TO 30 DAYS
		569.382-010	LINE TENDER, FLAKEBOARD	3	2	2	SIX TO 12 MONTHS
		569.662-010	INCISING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		569.682-010	GRINDER, HARDBOARD	3	3	2	ONE TO TWO YEARS
		569.685-026	CORE-LAYING-MACHINE OPERATOR	2	2	1	THREE TO SIX MONTHS
		569.685-042	GLUE SPREADER, VENEER	2	1	1	30 10 90 DAYS
		569.685-046	GLUING-MACHINE OPERATOR	2	2	2	30 10 90 DAYS
		569.685-050	GLUING-MACHINE OPERATOR, ELECTRONIC	2	2	1	THREE TO SIX MONTHS
		569.685-054	HOT-PLATE-PLYWOOD-PRESS OPERATOR	2	1	1	30 10 90 DAYS
		569.685-058	HYDRAULIC-PRESS OPERATOR	2	1	2	30 10 90 DAYS
		569.685-062	SPLICER OPERATOR	2	1	1	THREE TO SIX MONTHS
		569.685-070	VARNISHER	1	1	1	UP TO 30 DAYS
		569.685-074	VENEER TAPER	2	1	1	30 10 90 DAYS
		599.685-034	DYER	2	2	2	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7639 MISCELLANEOUS WOODWORKING MACHINE OPERATORS AND TEN (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		663.682-018	VENEER-SLICING-MACHINE OPERATOR	3	1	1	30 TO 90 DAYS
		663.685-014	EXCELSIOR-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		666.684-010	FRAMER	2	1	2	30 TO 90 DAYS
		669.682-054	LAST TRIMMER	3	2	2	30 TO 90 DAYS
		669.685-038	CORE-COMPOSER FEEDER	2	1	1	30 TO 90 DAYS
		669.685-098	VENEER REPAIRER, MACHINE	2	1	1	UP TO 30 DAYS
		692.685-094	GLUE-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		739.684-066	FOOT-MITER OPERATOR	2	2	1	UP TO 30 DAYS
		764.684-014	BARREL CHARRER	2	1	1	THREE TO SIX MONTHS
		959.684-010	POLE FRAMER	2	1	2	30 TO 90 DAYS
03.0403	FOREST PRODUCTS UTILIZATION	663.682-014	POLE-PEELING-MACHINE OPERATOR	3	1	1	30 TO 90 DAYS
		921.685-066	TRANSFER OPERATOR	2	1	1	30 TO 90 DAYS
03.0404	FOREST PRODUCTS PROCESSING TECHNOLOGY	569.685-078	WOOD-FUEL PELLETTIZER	3	2	2	THREE TO SIX MONTHS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	692.685-262	WOOD-WEB-WEAVING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
47.0892	GUNSMITHING	665.685-034	STOCK CHECKERER 2	2	1	1	UP TO 30 DAYS
48.0702	FURNITURE MAKING	562.685-010	GLUE-SIZE-MACHINE OPERATOR	2	2	2	UP TO 30 DAYS
		692.685-106	LAMINATING-MACHINE OPERATOR	3	1	2	30 TO 90 DAYS
48.0703	MILLWORK AND CABINET MAKING	665.685-018	PILOW-AND-BORING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		666.482-010	PULLEY-MORTISER OPERATOR	3	2	2	THREE TO SIX MONTHS
		666.582-010	PREFITTER, DOORS	3	2	2	THREE TO SIX MONTHS
		666.685-010	STEMHOLE BORER	2	1	1	UP TO 30 DAYS
		669.485-010	POWER-BARKER OPERATOR	3	2	2	30 TO 90 DAYS
		669.662-014	FRAME-TABLE OPERATOR	3	2	2	SIX TO 12 MONTHS
		669.682-046	EMBOSSING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		669.682-066	TIP INSERTER	3	1	1	THREE TO SIX MONTHS
		669.685-050	DOWELING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		669.685-054	END STAPLER	2	1	1	30 TO 90 DAYS
		669.685-094	TURNER	2	1	1	30 TO 90 DAYS

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OCCUPATION: 7640

PRINTING MACHINE OPERATORS AND TENDERS

These workers run machines that perform printing operations. They may operate machines that set type, either by the line or into a computer which can set an entire page. They may run machines that print designs or colors, emboss business cards, or copy drawings. They may set up and load machines that make plates for printing pictures, repair books or magazines, or fasten wire bindings to notebooks. They watch machine operations and check its work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7642

TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS

These workers operate machines to prepare material to be printed in publications. Some operate keyboard machines to assemble and set type. They press keys to select letters. The machine produces metal molds of letters and assembles them into lines of words. Some machines produce coded paper tapes or films to prepare type for printing. Others enter information into a computer that prepares entire pages of type. These workers also may arrange columns of type and pictures according to the desired layout of each page.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	650.582-010	LINOTYPE OPERATOR	4 2 3	TWO TO FOUR YEARS
		650.582-014	MONOTYPE-KEYBOARD OPERATOR	4 2 3	ONE TO TWO YEARS
		650.582-018	PHOTOCOMPOSING-MACHINE OPERATOR	3 1 1	ONE TO TWO YEARS
		650.582-022	PHOTOTYPESetter OPERATOR	4 2 3	SIX TO 12 MONTHS
		650.682-010	EQUIPMENT MONITOR, PHOTOTYPESETTING	3 1 2	THREE TO SIX MONTHS
		650.685-010	TYPESETTING-MACHINE TENDER	3 1 2	THREE TO SIX MONTHS
		652.585-010	PHOTOLETTERING-MACHINE OPERATOR	2 1 2	THREE TO SIX MONTHS
		652.685-106	TYPE-PROOF REPRODUCER	2 1 2	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7643

PRINTING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to print information or designs on other products. They also may copy, proof, or assemble printed matter. They load the machines with paper or other material, set machine controls, and watch the machines operate. They may mix chemical solutions, fill ink wells, and install and adjust machine attachments. They also check printed products for defects, and may pack finished work in cartons or boxes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M L	
00.0000 NO CIP ASSIGNED	652.685-094 TICKET PRINTER AND Tagger	2 1 1	UP TO 30 DAYS
	659.662-010 PRINTER-SLOTTER OPERATOR	3 2 2	ONE TO TWO YEARS
48.0205 TYPESETTING, MAKE-UP, AND COMPOSITION	651.582-014 LITHOGRAPHIC-PROOFER APPRENTICE	3 2 2	SIX TO 12 MONTHS
48.0208 PRINTING PRESS OPERATIONS	651.582-010 PROOF-PRESS OPERATOR	3 2 2	SIX TO 12 MONTHS
	651.582-014 LITHOGRAPHIC-PROOFER APPRENTICE	3 2 2	SIX TO 12 MONTHS
	651.585-010 ASSISTANT-PRESS OPERATOR	3 2 2	ONE TO TWO YEARS
	651.682-014 OFFSET-DUPLICATING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
	651.682-018 STRIPER	3 1 1	SIX TO 12 MONTHS
	651.685-010 BAG PRINTER	2 2 2	THREE TO SIX MONTHS
	651.685-014 DESIGN PRINTER, BALLOON	2 1 1	UP TO 30 DAYS
	651.685-018 OFFSET-PRESS OPERATOR 2	2 1 1	30 TO 90 DAYS
	651.685-022 PLATEN-PRESS FEEDER	2 1 1	30 TO 90 DAYS
	652.462-010 RUBBER-PRINTING-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
	652.562-010 PRINT-LINE OPERATOR	3 2 2	ONE TO TWO YEARS
	652.582-010 MARKER	3 1 1	THREE TO SIX MONTHS
	652.582-014 ROTARY-SCREEN-PRINTING-MACHINE OPER	3 1 1	THREE TO SIX MONTHS
	652.682-014 EMBOSSOGRAPH OPERATOR	3 1 2	THREE TO SIX MONTHS
	652.685-010 BACK TENDER, CLOTH PRINTING	2 1 1	UP TO 30 DAYS
	652.685-014 BINDING PRINTER	2 1 1	UP TO 30 DAYS
	652.685-018 CARTON MARKER, MACHINE	2 1 1	UP TO 30 DAYS
	652.685-026 DECORATING-MACHINE OPERATOR	3 1 1	30 TO 90 DAYS
	652.685-030 EMBOSING-PRESS OPERATOR	2 1 1	UP TO 30 DAYS
	652.685-034 GLOVE PRINTER	2 1 1	30 TO 90 DAYS
	652.685-038 INK PRINTER	2 1 2	UP TO 30 DAYS
	652.685-042 KEYING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	652.685-046 MARKING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
	652.685-050 MARKING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	652.685-054 NAME-PLATE STAMPER	2 1 1	UP TO 30 DAYS
	652.685-058 PRESS FEEDER	2 1 1	30 TO 90 DAYS
	652.685-062 PRINTER	2 1 1	30 TO 90 DAYS
	652.685-066 PRINTER, FLOOR COVERING	2 1 1	30 TO 90 DAYS
	652.685-070 PRINTER, MACHINE	2 1 1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7643 PRINTING MACHINE OPERATORS AND TENDERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		652.685-074	PRINTING-MACHINE OPERATOR, FOLDING	2	1 1	UP TO 30 DAYS
		652.685-078	ROLLER OPERATOR	2	1 1	UP TO 30 DAYS
		652.685-082	STAMPER	2	1 1	UP TO 30 DAYS
		652.685-090	STRIKE-OFF-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		652.685-098	TICKETER	2	1 2	UP TO 30 DAYS
		652.685-102	WAD-PRINTING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
48.0209	SILK SCREEN MAKING AND PRINTING	651.582-014	LITHOGRAPHIC-PROOFER APPRENTICE	3	2 2	SIX TO 12 MONTHS
		651.682-014	OFFSET-DUPLICATING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		652.582-014	ROTARY-SCREEN-PRINTING-MACHINE OPER	3	1 1	THREE TO SIX MONTHS
		652.665-010	SILK-SCREEN PRINTER, MACHINE	3	1 1	30 TO 90 DAYS
		652.682-018	SCREEN-PRINTING-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS

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OCCUPATION: 7644

PHOTOENGRAVING AND LITHOGRAPHING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to prepare printing plates and rollers. They may also use machines to print patterns or designs on products. They set machine controls, install and adjust attachments, and load and unload materials onto and from the machines. They may use cameras and film processing equipment to photograph and develop negatives of designs or typed matter to be transferred to printing plates. They may also cut, trim, mount, or otherwise finish printing plates or related devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	979.382-022	PANTOGRAPHER	3	1	1	THREE TO SIX MONTHS
		979.682-026	ROUTER	3	1	1	SIX TO 12 MONTHS
48.0102	ARCHITECTURAL DRAFTING	979.682-014	BLUEPRINTING-MACHINE OPERATOR	3	1	1	SIX TO 12 MONTHS
48.0103	CIVIL/STRUCTURAL DRAFTING	979.682-014	BLUEPRINTING-MACHINE OPERATOR	3	1	1	SIX TO 12 MONTHS
48.0104	ELECTRICAL/ELECTRONICS DRAFTING	979.682-014	BLUEPRINTING-MACHINE OPERATOR	3	1	1	SIX TO 12 MONTHS
48.0105	MECHANICAL DRAFTING	979.682-014	BLUEPRINTING-MACHINE OPERATOR	3	1	1	SIX TO 12 MONTHS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	971.382-018	REPEAT-PHOTOCOMPOSING-MACHINE OPERA	4	3	3	TWO TO FOUR YEARS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKIN	971.381-018	OFFSET-PLATE MAKER	4	2	2	ONE TO TWO YEARS
		972.682-010	PLATE GRAINER	3	2	3	TWO TO FOUR YEARS
		972.682-014	PLATE-GRAINER APPRENTICE	3	2	3	TWO TO FOUR YEARS
		979.682-022	ROLLER VARNISHER	3	1	1	ONE TO TWO YEARS
48.0208	PRINTING PRESS OPERATIONS	652.685-022	CUTTING-AND-PRINTING-MACHINE OPERAT	3	2	1	30 TO 90 DAYS
		652.685-086	STENCIL-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		971.685-010	ROLLER-PRINT TENDER	3	2	1	30 TO 90 DAYS
		979.382-010	CLAMPER	3	2	2	ONE TO TWO YEARS
48.0209	SILK SCREEN MAKING AND PRINTING	652.665-014	STRICKLER ATTENDANT	3	1	1	THREE TO SIX MONTHS
48.0210	PHOTOENGRAVING	*971.685-010	ROLLER-PRINT TENDER	3	2	1	30 TO 90 DAYS

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OCCUPATION: 7649

PRINTING MACHINE OPERATORS AND TENDERS, N.E.C.

These people operate or tend machines used to assemble or repair books, magazines, and other printed material. Some workers tend machines that assemble, glue, and fold sheets of paper to make business forms. Others tend machines used to repair stitching in books, fasten wire bindings in notebooks, or remove faulty printing from paper products. They may install machine attachments, set machine controls, load machines with materials, and clear machine jams. They also check finished products for defects and may keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	649.685-038	EMBOSSING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
48.0102	ARCHITECTURAL DRAFTING	979.682-010	BLOCKER 1	3 2 2	TWO TO FOUR YEARS
48.0103	CIVIL/STRUCTURAL DRAFTING	979.682-010	BLOCKER 1	3 2 2	TWO TO FOUR YEARS
48.0104	ELECTRICAL/ELECTRONICS DRAFTING	979.682-010	BLOCKER 1	3 2 2	TWO TO FOUR YEARS
48.0105	MECHANICAL DRAFTING	979.682-010	BLOCKER 1	3 2 2	TWO TO FOUR YEARS
48.0202	BOOKBINDING	653.382-010	FOLDING-MACHINE OPERATOR	3 2 1	SIX TO 12 MONTHS
		653.585-010	COLLATING-MACHINE OPERATOR	2 1 1	THREE TO SIX MONTHS
		653.682-014	COVERING-MACHINE OPERATOR	3 2 1	SIX TO 12 MONTHS
		653.685-010	BINDERY WORKER	2 2 2	THREE TO SIX MONTHS
		653.685-014	BOOK-SEWING-MACHINE OPERATOR 1	2 1 1	THREE TO SIX MONTHS
		653.685-022	MAGAZINE REPAIRER	2 1 2	30 TO 90 DAYS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	653.685-026	ROUNDING-AND-BACKING-MACHINE OPERAT	3 2 2	THREE TO SIX MONTHS
		653.685-030	SPIRAL BINDER	1 1 1	UP TO 30 DAYS
		979.682-010	BLOCKER 1	3 2 2	TWO TO FOUR YEARS
48.0208	PRINTING PRESS OPERATIONS	659.685-010	PAPER CONDITIONER	2 1 1	30 TO 90 DAYS
		659.685-018	SHOTGUN-SHELL-REPRINTING-UNIT OPERA	2 1 2	UP TO 30 DAYS
		659.685-022	TRANSFER-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS

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OCCUPATION: 7650

TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS AND TENDERS

These workers operate machines that make or treat textiles and garments. They may run machines that wind fibers or fabrics on spools or rolls, knit or weave material, or cut fabrics for making clothes. Others run machines that attach fasteners to clothing, sew garments together to make garments, upholstery, or books, or make shoes and boots. Some workers operate dry cleaning or pressing equipment, or use machines to block hats, dye yarn, or stretch cloth.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7651

WINDING AND TWISTING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to wind fibers or fabric onto spools and to twist, straighten, or tighten fibers used in textile products. They load the machines by guiding fiber, thread, or fabric onto machine rolls and through reels and guides. They start the machines, watch their operation, and remove fibers from clogged rollers. They may weigh rolls of fabric or set counters to record the amount of fiber or fabric wound. They also clean the machines and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	554.665-010	CALENDER-WIND-UP TENDER	2 1 1	UP TO 30 DAYS
		580.685-034	HOOING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		581.685-074	WINDING-RACK OPERATOR	2 1 2	30 TO 90 DAYS
		589.685-086	ROLLING-DOWN-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		680.585-010	BATTING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		680.685-042	FINISHER-CARD TENDER	2 1 1	UP TO 30 DAYS
		680.685-094	SLIVER-LAP-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		681.485-010	ROVING WINDER, FIBERGLASS	2 1 2	30 TO 90 DAYS
		681.585-010	BEAMER	2 1 1	30 TO 90 DAYS
		681.585-014	BOBBIN WINDER, MACHINE	2 1 1	UP TO 30 DAYS
		681.585-018	SINGE WINDER	2 1 1	30 TO 90 DAYS
		681.682-010	DRESSER TENDER	3 1 2	THREE TO SIX MONTHS
		681.682-014	ROPE-MAKER, ROPEWALK	3 1 2	THREE TO SIX MONTHS
		681.682-018	RUG SETTER, AXMINSTER	3 1 2	SIX TO 12 MONTHS
		681.685-010	BALL-WARPER TENDER	2 1 1	30 TO 90 DAYS
		681.685-014	BALLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		681.685-018	BEAM-WARPER TENDER, AUTOMATIC	2 1 1	THREE TO SIX MONTHS
		681.685-026	BOBBIN WINDER, SEWING MACHINE	2 1 1	30 TO 90 DAYS
		681.685-030	CARDING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		681.685-034	COILER	2 1 1	UP TO 30 DAYS
		681.685-038	COVERING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		681.685-046	DOUBLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		681.685-058	LONG-CHAIN BEAMER	2 1 1	30 TO 90 DAYS
		681.685-062	LOOM-WINDER TENDER	2 1 1	UP TO 30 DAYS
		681.685-066	PRECISE WINDER	2 1 1	UP TO 30 DAYS
		681.685-070	QUILLER OPERATOR	2 1 1	THREE TO SIX MONTHS
		681.685-074	QUILLING-MACHINE OPERATOR, AUTOMATIC	2 1 1	30 TO 90 DAYS
		681.685-078	REELING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		681.685-082	ROPE MAKER, MACHINE	2 1 1	30 TO 90 DAYS
		681.685-086	ROPE-LAYING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		681.685-090	RUBBER-THREAD SPOOLER	2 1 1	UP TO 30 DAYS
		681.685-094	SELVAGE-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		681.685-098	SKEIN WINDER	2 1 1	30 TO 90 DAYS
		681.685-102	SKEINER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7651 WINDING AND TWISTING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		681.685-106	SPEEDER TENDER	2	1 1	UP TO 30 DAYS
		681.685-110	SPINNING-MACHINE TENDER	2	1 1	UP TO 30 DAYS
		681.685-114	SPOOLING-MACHINE OPERATOR	1	1 1	UP TO 30 DAYS
		681.685-118	STRAND-FORMING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		681.685-122	THREAD WINDER, AUTOMATIC	2	1 1	UP TO 30 DAYS
		681.685-126	TWISTER	2	1 1	30 TO 90 DAYS
		681.685-130	TWISTER TENDER	2	1 2	30 TO 90 DAYS
		681.685-134	TWISTER TENDER, PAPER	2	1 1	THREE TO SIX MONTHS
		681.685-138	UPIWISTER TENDER	2	1 1	30 TO 90 DAYS
		681.685-142	WARP SPOOLER	2	1 1	30 TO 90 DAYS
		681.685-150	WINDER OPERATOR, AUTOMATIC	2	1 1	UP TO 30 DAYS
		681.685-154	YARN WINDER	2	1 1	30 TO 90 DAYS
		681.685-158	YARN-TEXTURING-MACHINE OPERATOR 1	2	1 1	30 TO 90 DAYS
		682.685-010	SPINNER, FRAME	2	1 1	30 TO 90 DAYS
		682.685-014	SPINNER, MULE	2	1 1	THREE TO SIX MONTHS
		685.687-018	LACE WINDER	2	1 1	UP TO 30 DAYS
		689.685-014	BLOCKER	2	1 2	UP TO 30 DAYS
		689.685-046	CLOTH WINDER	2	1 1	UP TO 30 DAYS
		689.685-050	CLOTH-DOUBLING-AND-WINDING-MACHINE	2	1 1	30 TO 90 DAYS
		689.685-066	FISHING-LINE-WINDING-MACHINE OPERAT	2	1 1	UP TO 30 DAYS
		689.685-114	ROLLING-MACHINE TENDER	1	1 1	UP TO 30 DAYS
		690.682-026	CUTTER, BARREL DRUM	3	1 2	THREE TO SIX MONTHS
		739.685-030	PAINT-ROLLER WINDER	2	1 1	30 TO 90 DAYS
		920.685-070	LACE-ROLLER OPERATOR	2	1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	583.685-122	TRIMMING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	681.685-022	BOBBIN WINDER, MACHINE	1	1 1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7652

KNITTING AND WEAVING MACHINE OPERATORS AND TENDERS

These workers operate machines used to knit or weave fabrics. They operate a number of machines at one time. They mount loom frames and spools in the machines, thread the machines with yarn, and then start the machines. They patrol the work area to watch for machinery problems, clear machine jams, replace damaged machine parts, and refill spent yarn packages. They also may roll woven fabrics onto tubes or rolls and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	683.582-010	CARD CUTTER, JACQUARD	3	1 2 SIX TO 12 MONTHS
		683.662-010	JACQUARD-LOOM WEAVER	3	1 1 SIX TO 12 MONTHS
		683.665-010	WEAVER, NEEDLE LOOM	3	1 2 THREE TO SIX MONTHS
		683.682-010	CARPET WEAVER	3	1 2 THREE TO SIX MONTHS
		683.682-014	CARPET WEAVER, JACQUARD LOOM	3	1 2 THREE TO SIX MONTHS
		683.682-022	JACQUARD-LOOM WEAVER	3	1 2 SIX TO 12 MONTHS
		683.682-026	LEVERS-LACE MACHINE OPERATOR	3	1 2 ONE TO TWO YEARS
		683.682-030	PLUSH WEAVER	3	1 2 THREE TO SIX MONTHS
		683.682-034	WEAVER	3	1 2 SIX TO 12 MONTHS
		683.682-038	WEAVER	3	1 2 SIX TO 12 MONTHS
		683.682-042	WEAVER APPRENTICE	3	1 2 SIX TO 12 MONTHS
		683.682-046	WEAVER, NARROW FABRICS	3	1 2 SIX TO 12 MONTHS
		683.682-050	WEAVER, TIRE CORD	3	1 1 THREE TO SIX MONTHS
		683.685-030	THREADING-MACHINE TENDER	2	1 1 30 TO 90 DAYS
		683.685-038	WEAVER, AXMINSTER	2	1 1 THREE TO SIX MONTHS
		684.682-010	KNITTING-MACHINE OPERATOR, FULL-FAS	3	2 1 SIX TO 12 MONTHS
		684.685-010	SEAMLESS-HOSIERY KNITTER	3	1 1 30 TO 90 DAYS
		685.382-010	SURGICAL-ELASTIC KNITTER, HAND FRAM	4	2 1 SIX TO 12 MONTHS
		685.665-014	KNITTING-MACHINE OPERATOR	2	1 2 30 TO 90 DAYS
		685.665-018	WARP-KNITTING-MACHINE OPERATOR	3	2 2 THREE TO SIX MONTHS
		685.684-010	PATTERN WHEEL MAKER	3	2 2 SIX TO 12 MONTHS
		685.685-010	KNITTING-MACHINE OPERATOR	2	1 2 THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	685.665-010	KNITTER, FULL-FASHIONED GARMENT	2	1 1 THREE TO SIX MONTHS
		685.682-010	CROCHET-MACHINE OPERATOR	3	2 2 THREE TO SIX MONTHS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7653

TEXTILE FABRICATING MACHINE OPERATORS AND TENDERS

These workers operate and tend machines used to attach fasteners to clothing and other textile products. They may work with cloth, canvas, paper, plastics, leather, and rubber. Some tend machines that attach buttons to apparel. Others tend machines that fasten fabric and padding with eyelets to form panels for mattresses. These are only a few examples of the products they help produce. These workers load fasteners into a machine, position the materials fastened and press pedals to operate the machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7654

TEXTILE CUTTING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to cut fibers or fabric. They load or feed material into the machine and adjust guides and cutters. They watch machine operations for problems such as yarn breaks or wrinkled cloth. Once articles have been cut, they may stack or bundle them. They also may truck materials from storage rooms, clean and oil the machinery and weigh or measure finished articles.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
00.0000	NO CIP ASSIGNED	551.585-022	ROTARY-CUTTER OPERATOR	1 1 1	UP TO 30 DAYS
		585.685-026	CLOTH TRIMMER, MACHINE	2 1 2	30 TO 90 DAYS
		585.685-038	CUT-LACE-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		585.685-094	SHAVING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		585.685-098	SHEARING-MACHINE FEEDER	2 1 2	30 TO 90 DAYS
		585.685-102	SHEARING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		585.685-126	TRIMMER, MACHINE	2 1 2	UP TO 30 DAYS
		680.685-022	CHOPPED-STRAND OPERATOR	2 1 2	UP TO 30 DAYS
		680.685-102	STAPLE CUTTER	2 1 1	UP TO 30 DAYS
		686.662-010	RUG CUTTER	3 1 2	THREE TO SIX MONTHS
		686.682-010	BAND-SAW OPERATOR	3 1 2	THREE TO SIX MONTHS
		686.685-014	CONTINUOUS PILLOWCASE CUTTER	2 1 2	30 TO 90 DAYS
		686.685-022	CUTTER	2 1 2	UP TO 30 DAYS
		686.685-026	FELT CUTTER	2 1 2	UP TO 30 DAYS
		699.682-010	BINDING CUTTER, SYNTHETIC CLOTH	3 2 2	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	585.685-046	FUR-CUTTING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		585.685-062	LABEL PINKER	2 1 1	UP TO 30 DAYS
		686.462-010	DIE-CUTTING-MACHINE OPERATOR, AUTOM	3 1 2	THREE TO SIX MONTHS
		686.585-010	CUTTING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		686.682-014	BIAS-CUTTING-MACHINE OPERATOR	3 1 2	THREE TO SIX MONTHS
		686.682-018	FELT-CUTTING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		686.685-010	CHIN-STRAP CUTTER	2 1 1	UP TO 30 DAYS
		686.685-018	CUFF CUTTER	2 1 2	30 TO 90 DAYS
		686.685-042	PINKING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		686.685-058	SCALLOP CUTTER, MACHINE	2 1 2	UP TO 30 DAYS
		686.685-066	STRIP-CUTTING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		686.685-074	WELT-TRIMMING-MACHINE OPERATOR	3 1 2	30 TO 90 DAYS
		689.665-014	THREAD-CUTTER TENDER	3 1 2	UP TO 30 DAYS
		699.682-014	CUTTER	3 2 2	THREE TO SIX MONTHS
		781.682-010	TRIMMER, MACHINE	2 1 1	UP TO 30 DAYS
		784.685-010	BAND-AND-CUFF CUTTER	2 1 1	UP TO 30 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	692.685-250	WINDOW-SHADE CUTTER AND MOUNTER	2 1 1	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7654 TEXTILE CUTTING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0303	UPHOLSTERING	781.384-010	CUTTER, FABRICS AND MATERIALS	3 2 2	ONE TO TWO YEARS
48.0304	SHOE AND BOOT REPAIR	585.685-082	ROTARY CUTTER	2 1 2	30 TO 90 DAYS
		585.685-118	STRIPPING CUTTER AND WINDER	2 1 2	30 TO 90 DAYS
		690.685-094	COUNTER CUTTER	2 1 2	30 TO 90 DAYS
		690.685-114	CUT-OUT-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		690.685-478	WELT CUTTER	2 1 2	THREE TO SIX MONTHS
		789.382-010	CLICKING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	619.685-070	METALLIC-YARN-SLITTING-MACHINE OPER	2 1 1	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7655

TEXTILE SEWING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to sew together materials. They make items such as garments, quilts, upholstery, books, art goods, toys, or similar products. They thread the machines, adjust needles, and move controls to regulate feed rates and thread tensions. They may adjust the machine table to sew articles of various sizes and shapes. They watch machine operations to detect and correct stitching problems, and may replace damaged needles as necessary.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	684.682-014	SEWER AND INSPECTOR	3	1 1	30 TO 90 DAYS
		689.682-018	SPLICING-MACHINE OPERATOR	2	1 1	THREE TO SIX MONTHS
		689.685-106	QUILTING-MACHINE OPERATOR	3	1 2	THREE TO SIX MONTHS
		689.685-118	SEWING-MACHINE OPERATOR, SPECIAL EQ	2	1 2	UP TO 30 DAYS
		689.685-126	STITCH-BONDING-MACHINE TENDER	2	1 1	30 TO 90 DAYS
		689.685-150	WATCHER, AUTOMAT	2	1 2	THREE TO SIX MONTHS
		689.685-154	WATCHER, PANTOGRAPH	2	1 2	THREE TO SIX MONTHS
		731.685-010	ROOTER OPERATOR	2	1 2	30 TO 90 DAYS
		787.682-014	CARPET SEWER	3	2 2	30 TO 90 DAYS
		787.682-038	ROLL-OR-TAPE-EDGE-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		787.682-042	SEWING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		787.682-050	SEWING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		787.682-054	SEWING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		787.682-058	SEWING-MACHINE OPERATOR	3	1 2	THREE TO SIX MONTHS
		787.682-062	SEWING-MACHINE OPERATOR	2	1 1	THREE TO SIX MONTHS
		787.685-010	FASTENER-SEWING-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS
		787.685-014	FOLDER-SEAMER, AUTOMATIC	2	1 2	30 TO 90 DAYS
		787.685-022	HEMMING-AND-TACKING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		787.685-030	SERGING-MACHINE OPERATOR, AUTOMATIC	3	1 2	30 TO 90 DAYS
		787.685-034	SEWING-MACHINE OPERATOR, ZIPPER	2	1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	689.662-014	STRIPE MATCHER	3	2 2	30 TO 90 DAYS
		689.682-022	STITCHER	3	2 2	THREE TO SIX MONTHS
		783.682-010	FUR-MACHINE OPERATOR	3	2 2	ONE TO TWO YEARS
		783.682-014	SEWING-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS
		784.682-010	GLOVE SEWER	3	1 2	THREE TO SIX MONTHS
		784.682-014	HAT-AND-CAP SEWER	3	1 1	30 TO 90 DAYS
		784.685-014	BRIM STITCHER 1	2	1 1	UP TO 30 DAYS
		786.682-010	APPLIQUER, ZIGZAG	2	1 1	30 TO 90 DAYS
		786.682-014	ARMHOLE BASTER, JUMPBASTING	2	1 1	30 TO 90 DAYS
		786.682-018	ARMHOLE FELLER, HANDSTITCHING MACHI	2	1 1	UP TO 30 DAYS
		786.682-022	ARMHOLE-SEW-AND-TRIM OPERATOR, LOCK	2	1 1	30 TO 90 DAYS
		786.682-026	PACK MAKER, LOCKSTITCH	2	1 1	30 TO 90 DAYS
		786.682-029	LASTING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS

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OCCUPATION: 7655 TEXTILE SEWING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		786.682-034	BINDER, CHAINSTITCH	2	1 1	30	TO 90 DAYS
		786.682-038	BINDER, COVERSTITCH	2	1 1	30	TO 90 DAYS
		786.682-042	BINDER, LOCKSTITCH	2	1 1	30	TO 90 DAYS
		786.682-046	BLINDSTITCH-MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-050	CANVAS BASTER, JUMPBASTING	2	1 1	30	TO 90 DAYS
		786.682-054	CHAINSTITCH SEWING MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-058	COAT JOINER, LOCKSTITCH	2	1 1	30	TO 90 DAYS
		786.682-062	COLLAR BASTER, JUMPBASTING	2	1 1	30	TO 90 DAYS
		786.682-066	COLLAR FELLER, HANDSTITCHING MACHIN	2	1 1	UP	TO 30 DAYS
		786.682-070	COLLAR SETTER, LOCKSTITCH	2	1 1	30	TO 90 DAYS
		786.682-074	COLLAR SETTER, OVERLOCK	2	1 1	30	TO 90 DAYS
		786.682-078	COVERSTITCH-MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-082	CUP SETTER, LOCKSTITCH	2	1 1	30	TO 90 DAYS
		786.682-086	ELASTIC ATTACHER, CHAINSTITCH	2	1 1	30	TO 90 DAYS
		786.682-090	ELASTIC ATTACHER, COVERSTITCH	2	1 1	30	TO 90 DAYS
		786.682-094	ELASTIC ATTACHER, OVERLOCK	2	1 1	30	TO 90 DAYS
		786.682-098	ELASTIC ATTACHER, ZIGZAG	2	1 1	30	TO 90 DAYS
		786.682-102	FACING BASTER, JUMPBASTING	2	1 1	30	TO 90 DAYS
		786.682-106	FELLED-SEAM OPERATOR, CHAINSTITCH	2	1 1	30	TO 90 DAYS
		786.682-110	FLATLOCK-SEWING-MACHINE OPERATOR	2	1 1	30	TO 90 DAYS
		786.682-114	FRONT MAKER, LOCKSTITCH	2	1 1	THREE	TO SIX MONTHS
		786.682-118	FRONT-EDGE-TAPE SEWER, LOCKSTITCH	2	1 1	THREE	TO SIX MONTHS
		786.682-122	FUR-MACHINE OPERATOR	3	1 1	TWO	TO FOUR YEARS
		786.682-126	HEMMER, BLINDSTITCH	2	1 1	UP	TO 30 DAYS
		786.682-130	HEMMER, CHAINSTITCH	2	1 1	UP	TO 30 DAYS
		786.682-134	HEMMER, LOCKSTITCH	2	1 1	UP	TO 30 DAYS
		786.682-138	HEMMER, OVERLOCK	2	1 1	UP	TO 30 DAYS
		786.682-142	HEMSTITCHING-MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-146	JUMPBASTING-MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-150	LAPEL PAPPER, BLINDSTITCH	2	1 1	30	TO 90 DAYS
		786.682-154	LINING BASTER, JUMPBASTING	2	1 1	THREE	TO SIX MONTHS
		786.682-158	LINING FELLER, BLINDSTITCH	2	1 1	30	TO 90 DAYS
		786.682-162	LINING MAKER, LOCKSTITCH	2	1 1	UP	TO 30 DAYS
		786.682-166	LINING SETTER, LOCKSTITCH	2	1 1	30	TO 90 DAYS
		786.682-170	LOCKSTITCH-MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-174	LOCKSTITCH-SEWING-MACHINE OPERATOR,	3	1 2	THREE	TO SIX MONTHS
		786.682-178	MULTINEEDLE-CHAINSTITCH-MACHINE OPE	2	1 1	30	TO 90 DAYS
		786.682-182	NECKTIE OPERATOR, POCKETS AND PIECE	2	1 1	30	TO 90 DAYS
		786.682-186	NECKTIE-CENTRALIZING-MACHINE OPERAT	2	1 1	30	TO 90 DAYS
		786.682-190	NECKTIE-CENTRALIZING-MACHINE OPERAT	2	1 1	30	TO 90 DAYS
		786.682-194	OVERLOCK SEWING MACHINE OPERATOR	2	1 1	UP	TO 30 DAYS
		786.682-198	OVERLOCK-MACHINE OPERATOR, COMPLETE	3	1 2	THREE	TO SIX MONTHS

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OCCUPATION: 7655 TEXTILE SEWING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		786.682-202	PANTS OUTSEAMER, CHAINSTITCH	2	1 1	30 TO 90 DAYS
		786.682-206	PICKED-EDGE SEWING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.682-210	POCKET SETTER, LOCKSTITCH	3	1 1	THREE TO SIX MONTHS
		786.682-214	REPAIR OPERATOR	3	1 2	30 TO 90 DAYS
		786.682-218	SEAT JOINER, CHAINSTITCH	2	1 1	30 TO 90 DAYS
		786.682-222	SHOULDER JOINER, LOCKSTITCH	2	1 1	30 TO 90 DAYS
		786.682-226	SLEEVE MAKER, LOCKSTITCH	2	1 1	UP TO 30 DAYS
		786.682-230	SLEEVE SETTER, LOCKSTITCH	2	1 1	THREE TO SIX MONTHS
		786.682-234	SLEEVE SETTER, OVERLOCK	2	1 1	30 TO 90 DAYS
		786.682-238	TOPSTITCHER, LOCKSTITCH	2	1 1	30 TO 90 DAYS
		786.682-242	TOPSTITCHER, ZIGZAG	2	1 1	30 TO 90 DAYS
		786.682-246	TUNNEL-ELASTIC OPERATOR, CHAINSTITCH	2	1 1	30 TO 90 DAYS
		786.682-250	TUNNEL-ELASTIC OPERATOR, LOCKSTITCH	2	1 1	30 TO 90 DAYS
		786.682-254	TUNNEL-ELASTIC OPERATOR, ZIGZAG	2	1 1	30 TO 90 DAYS
		786.682-258	ULTRASONIC-SEAMING-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS
		786.682-262	UTILITY OPERATOR	3	1 2	THREE TO SIX MONTHS
		786.682-266	WAISTBAND SETTER, LOCKSTITCH	2	1 1	UP TO 30 DAYS
		786.682-270	WAISTLINE JOINER, LOCKSTITCH	2	1 1	30 TO 90 DAYS
		786.682-274	WAISTLINE JOINER, OVERLOCK	2	1 1	THREE TO SIX MONTHS
		786.682-278	ZIGZAG-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.682-282	ZIPPER SETTER, CHAINSTITCH	2	1 1	30 TO 90 DAYS
		786.682-286	ZIPPER SETTER, LOCKSTITCH	2	1 1	30 TO 90 DAYS
		786.685-010	BUTTON-SEWING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.685-014	BUTTONHOLE-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.685-018	EMBROIDERY-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.685-022	PIPED-POCKET-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.685-026	PROFILE-STITCHING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.685-030	SEWING-MACHINE OPERATOR, SEMI-AUTOM	2	1 1	UP TO 30 DAYS
		786.685-034	TACKING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		786.685-042	BUTTONHOLE-AND-BUTTON-SEWING-MACHIN	2	1 2	UP TO 30 DAYS
		787.682-010	BINDER	3	1 1	THREE TO SIX MONTHS
		787.682-022	EMBROIDERY-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		787.682-046	SEWING-MACHINE OPERATOR	3	2 2	SIX TO 12 MONTHS
		787.682-070	SEWING-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS
		787.682-074	SEWING-MACHINE OPERATOR	3	1 1	30 TO 90 DAYS
		787.682-082	TUCKING-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS
		787.685-042	TACKING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		787.685-046	TOE-CLOSING-MACHINE TENDER	2	1 1	UP TO 30 DAYS
		787.685-050	TRIMMING SEWER, AUTOMATIC	2	1 1	30 TO 90 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	689.685-026	BOUFFANT-CURTAIN-MACHINE TENDER	3	1 2	THREE TO SIX MONTHS
		692.685-254	WINDOW-SHADE-RING SEWER	2	1 1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7655 TEXTILE SEWING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M I	
	786.682-046 BLINDSTITCH-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	787.682-018 DRAPERY OPERATOR	3 1 2	THREE TO SIX MONTHS
	787.682-026 HEMMER	3 1 1	THREE TO SIX MONTHS
	787.682-034 OVEREDGE SEWER	3 1 2	THREE TO SIX MONTHS
	787.682-066 SEWING-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS
	787.682-078 SHIRTING-MACHINE OPERATOR	3 1 2	THREE TO SIX MONTHS
	787.685-018 HEMMER, AUTOMATIC	3 1 1	30 TO 90 DAYS
	787.685-026 PLEATER	3 1 1	30 TO 90 DAYS
	787.685-038 SHIRTING-MACHINE OPERATOR, AUTOMATI	2 1 1	30 TO 90 DAYS
20.0503 CUSTOM SLIPCOVERING AND UPHOLSTERING	780.682-014 SLIP-COVER SEWER	3 1 1	THREE TO SIX MONTHS
	780.682-018 UPHOLSTERY SEWER	3 2 2	THREE TO SIX MONTHS
	787.682-086 ZIPPER SETTER	3 1 1	THREE TO SIX MONTHS
48.0303 UPHOLSTERING	780.682-010 SEWING-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS
	780.682-014 SLIP-COVER SEWER	3 1 1	THREE TO SIX MONTHS
	780.682-018 UPHOLSTERY SEWER	3 2 2	THREE TO SIX MONTHS
48.0304 SHOE AND BOOT REPAIR	783.682-014 SEWING-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS

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OCCUPATION: 7656

SHOE MACHINE OPERATORS AND TENDERS

These people operate or tend machines that sew together items such as boots and shoes. They start, stop, and control the speed of a sewing or stitching machine. They thread the machine by placing a spool of thread on the machine spindle and drawing the end of the thread through guides, slots, and needles. They align parts to be stitched, following seams, edges, or markings. They press a pedal or knee control to raise and lower the machine pressure foot and to start and stop the machine. They guide parts under the needle to sew parts of products together. They also may sew decorative stitches or buckles on shoe parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0304	SHOE AND BOOT REPAIR	690.682-078	STITCHER, SPECIAL MACHINE	3 2 2	THREE TO SIX MONTHS
		690.682-082	STITCHER, STANDARD MACHINE	3 2 2	THREE TO SIX MONTHS
		690.685-494	STITCHER, TAPE-CONTROLLED MACHINE	2 1 1	UP TO 30 DAYS
		788.684-114	THREAD LASTER	3 1 2	30 TO 90 DAYS

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OCCUPATION: 7657

PRESSING MACHINE OPERATORS

These workers operate machines used to press garments and other textile products. They use steam presses and other machines to flatten seams and shape garments. Some specialize in pressing particular garment parts, such as collars, seams, or pockets. Others work on a certain type of garment, such as handkerchiefs, hats, or shirts. Their duties vary from simple smoothing of cloth and flattening of seams to skillful shaping of garment parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
00.0000	NO CIP ASSIGNED	583.685-058	HYDRAULIC-PRESS OPERATOR	2	1 2	UP TO	30 DAYS
		583.685-090	PRESSER, BUFFING WHEEL	2	1 1	UP TO	30 DAYS
		583.685-118	STRIP PRESSER	1	1 1	UP TO	30 DAYS
		686.685-050	PRESS OPERATOR	2	1 1	30 TO	90 DAYS
		689.685-018	BOBBIN PRESSER	2	1 2	UP TO	30 DAYS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	363.682-010	LEATHER FINISHER	3	1 2	THREE TO	SIX MONTHS
		363.682-014	PRESSER, ALL-AROUND	2	2 1	30 TO	90 DAYS
		363.682-018	PRESSER, MACHINE	2	1 1	UP TO	30 DAYS
		363.684-010	BLOCKER	3	2 1	30 TO	90 DAYS
		363.684-014	HAT BLOCKER	3	1 1	THREE TO	SIX MONTHS
		363.685-010	PRESS OPERATOR	2	1 1	UP TO	30 DAYS
		363.685-014	PRESSER, AUTOMATIC	2	1 1	30 TO	90 DAYS
		363.685-018	PRESSER, FORM	2	2 1	UP TO	30 DAYS
		363.685-022	PRESSER, HANDKERCHIEF	1	1 1	UP TO	30 DAYS
		363.685-026	SHIRT PRESSER	2	1 1	UP TO	30 DAYS
		369.685-018	FUR IRONER	3	1 1	30 TO	90 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	363.682-010	LEATHER FINISHER	3	1 2	THREE TO	SIX MONTHS
		363.682-014	PRESSER, ALL-AROUND	2	2 1	30 TO	90 DAYS
		363.682-018	PRESSER, MACHINE	2	1 1	UP TO	30 DAYS
		363.684-010	BLOCKER	3	2 1	30 TO	90 DAYS
		363.684-014	HAT BLOCKER	3	1 1	THREE TO	SIX MONTHS
		363.685-010	PRESS OPERATOR	2	1 1	UP TO	30 DAYS
		363.685-014	PRESSER, AUTOMATIC	2	1 1	30 TO	90 DAYS
		363.685-018	PRESSER, FORM	2	2 1	UP TO	30 DAYS
		363.685-022	PRESSER, HANDKERCHIEF	1	1 1	UP TO	30 DAYS
		363.685-026	SHIRT PRESSER	2	1 1	UP TO	30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	583.685-018	BRIM PRESSER 1	2	1 2	UP TO	30 DAYS
		583.685-022	BRIM-AND-CROWN PRESSER	2	1 2	UP TO	30 DAYS
		583.685-050	HAT-LINING BLOCKER	2	1 1	UP TO	30 DAYS
		583.685-054	HYDRAULIC-PRESS OPERATOR	2	1 1	UP TO	30 DAYS
		583.685-070	MANGLER	2	1 2	UP TO	30 DAYS

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OCCUPATION: 7657 PRESSING MACHINE OPERATORS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		583.685-086	PRESS OPERATOR	2 1 1	THREE TO SIX MONTHS
		583.685-098	SEAM PRESSER	2 1 1	30 TO 90 DAYS
		583.685-102	SHAPER AND PRESSER	2 1 1	UP TO 30 DAYS
		583.685-106	STEAM-PRESS TENDER	2 1 2	30 TO 90 DAYS
		583.685-110	STRAW-HAT PRESSER, MACHINE	2 1 1	UP TO 30 DAYS
		583.685-114	STRAW-HAT-PLUNGER OPERATOR	2 1 2	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7658

LAUNDERING AND DRY CLEANING MACHINE OPERATORS AND TENDERS

These people operate or tend machines that launder, dye or dryclean clothing, rugs, and linens. They may operate one or several machines. They load the machines and set controls for wash speed, water level and temperature. They also add the soap and bleach and sometimes starch. They spot clean items, wash delicate fabrics by hand, or use chemical solutions to clean fabrics. They may iron, fold, or patch articles. Some specialize in cleaning items such as furs, feathers, or leather garments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
12.0101	DRYCLEANING AND LAUNDERING SERVICES	361.665-010	WASHER, MACHINE	3	2	2	THREE TO SIX MONTHS
		361.682-010	RUG CLEANER, MACHINE	3	1	1	THREE TO SIX MONTHS
		361.684-010	LAUNDERER, HAND	2	1	2	UP TO 30 DAYS
		361.684-014	LAUNDRY WORKER 1	2	1	1	UP TO 30 DAYS
		361.685-010	CONDITIONER-TUMBLER OPERATOR	2	1	2	UP TO 30 DAYS
		361.685-014	CONTINUOUS-TOWEL ROLLER	2	1	1	UP TO 30 DAYS
		361.685-018	LAUNDRY WORKER 2	2	1	1	UP TO 30 DAYS
		361.685-022	PATCHING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		362.382-010	DRY-CLEANER APPRENTICE	3	2	2	SIX TO 12 MONTHS
		362.382-014	DRY CLEANER	3	2	2	SIX TO 12 MONTHS
		362.684-014	FUR CLEANER	3	2	2	SIX TO 12 MONTHS
		362.684-026	LEATHER CLEANER	3	2	2	30 TO 90 DAYS
		362.685-010	FEATHER RENOVATOR	1	1	1	UP TO 30 DAYS
		364.684-010	RUG DYER 2	3	2	2	SIX TO 12 MONTHS
		369.684-014	LAUNDRY OPERATOR	2	1	2	30 TO 90 DAYS
		369.685-010	FUR BLOWER	2	1	1	UP TO 30 DAYS
		369.685-014	FUR CLEANER, MACHINE	2	1	2	30 TO 90 DAYS
		369.685-022	FUR-GLAZING-AND-POLISHING-MACHINE O	2	1	1	30 TO 90 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	361.665-010	WASHER, MACHINE	3	2	2	THREE TO SIX MONTHS
		361.684-010	LAUNDERER, HAND	2	1	2	UP TO 30 DAYS
		361.684-014	LAUNDRY WORKER 1	2	1	1	UP TO 30 DAYS
		361.685-018	LAUNDRY WORKER 2	2	1	1	UP TO 30 DAYS
		361.685-022	PATCHING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		362.382-010	DRY-CLEANER APPRENTICE	3	2	2	SIX TO 12 MONTHS
		362.382-014	DRY CLEANER	3	2	2	SIX TO 12 MONTHS
		362.684-014	FUR CLEANER	3	2	2	SIX TO 12 MONTHS
		362.684-026	LEATHER CLEANER	3	2	2	30 TO 90 DAYS
		369.684-014	LAUNDRY OPERATOR	2	1	2	30 TO 90 DAYS
		369.685-014	FUR CLEANER, MACHINE	2	1	2	30 TO 90 DAYS
20.0605	EXECUTIVE HOUSEKEEPING	361.665-010	WASHER, MACHINE	3	2	2	THREE TO SIX MONTHS
		361.685-010	CONDITIONER-TUMBLER OPERATOR	2	1	2	UP TO 30 DAYS
		361.685-014	CONTINUOUS-TOWEL ROLLER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 7658 LAUNDERING AND DRY CLEANING MACHINE OPERATORS AND T (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		361.685-018	LAUNDRY WORKER 2	2 1 1	UP TO 30 DAYS
		361.685-022	PATCHING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7659

TEXTILE MACHINE OPERATORS AND TENDERS, MISCELLANEOUS

People in these jobs operate or tend machines used to process, finish, or treat textile products. Their work duties vary. They may block and trim hats, clean rugs, or fluff dry laundry. Others clean furs, stretch cloth, stuff quilts, dye garments, join shoe parts, or perform other tasks to prepare or finish textile products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	557.665-010	SYNTHETIC-STAPLE EXTRUDER	3 1 2	THREE TO SIX MONTHS
		557.685-018	PROCESSOR	2 1 1	30 TO 90 DAYS
		557.685-022	SECOND-FLOOR OPERATOR	2 1 1	30 TO 90 DAYS
		557.685-026	SPINNER	2 1 1	30 TO 90 DAYS
		557.685-030	SPINNING-BATH PATROILER	2 1 2	THREE TO SIX MONTHS
		580.485-010	CALENDERING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		580.585-010	TENTER-FRAME OPERATOR	2 1 2	UP TO 30 DAYS
		580.682-010	WEFT STRAIGHTENER	3 1 2	THREE TO SIX MONTHS
		580.685-014	CLOTH DRIER	2 1 2	UP TO 30 DAYS
		580.685-022	COTTON-BALL-MACHINE TENDER	3 2 2	THREE TO SIX MONTHS
		580.685-058	STRETCHING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		581.585-010	CARBONIZER	2 1 2	30 TO 90 DAYS
		581.685-010	CLOTH SANDER	1 1 1	UP TO 30 DAYS
		581.685-018	DRIER OPERATOR	2 1 1	30 TO 90 DAYS
		581.685-022	DRY-CANS OPERATOR	2 1 2	UP TO 30 DAYS
		581.685-026	DRYING-MACHINE OPERATOR, PACKAGE YA	2 1 1	UP TO 30 DAYS
		581.685-030	DRYING-MACHINE TENDER	2 1 2	UP TO 30 DAYS
		581.685-034	DRYING-UNIT-FELTING-MACHINE OPERATO	2 1 2	THREE TO SIX MONTHS
		581.685-038	EXTRACTOR OPERATOR	1 1 1	UP TO 30 DAYS
		581.685-046	RAW-STOCK-DRIER TENDER	2 1 1	UP TO 30 DAYS
		581.685-050	RUG-DRYING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		581.685-054	SKEIN-YARN DRIER	1 1 1	UP TO 30 DAYS
		581.685-058	STEAM-DRIER TENDER	3 2 3	SIX TO 12 MONTHS
		581.685-062	TUMBLER TENDER	2 1 1	UP TO 30 DAYS
		581.685-066	VACUUM-DRIER OPERATOR	2 1 1	THREE TO SIX MONTHS
		581.685-070	WHIZZER	2 1 1	UP TO 30 DAYS
		582.362-010	PANELBOARD OPERATOR	3 1 2	THREE TO SIX MONTHS
		582.482-014	TANNER, ROTARY DRUM, CONTINUOUS PRO	3 3 3	SIX TO 12 MONTHS
		582.482-018	TANNING-DRUM OPERATOR	3 2 2	THREE TO SIX MONTHS
		582.562-010	SLASHER TENDER	3 2 3	ONE TO TWO YEARS
		582.582-010	DYE-RANGE OPERATOR, CLOTH	3 2 2	THREE TO SIX MONTHS
		582.585-010	AGER OPERATOR	2 1 2	UP TO 30 DAYS
		582.665-010	CYLINDER BATCHER	2 1 2	30 TO 90 DAYS
		582.665-014	DYE-REFL OPERATOR	2 1 2	30 TO 90 DAYS
		582.665-018	JIGGER	2 1 2	30 TO 90 DAYS

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OCCUPATION: 7659 MISCELLANEOUS TEXTILE MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		582.665-022	SATURATION-EQUIPMENT OPERATOR	3	2 2	THREE TO SIX MONTHS
		582.665-026	SIZING-MACHINE-AND-DRIER OPERATOR	3	1 2	THREE TO SIX MONTHS
		582.682-010	FINISHING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		582.685-010	BACK WASHER	2	1 2	UP TO 30 DAYS
		582.685-014	BEAM-DYER OPERATOR	3	2 2	30 TO 90 DAYS
		582.685-038	CRABBER	3	1 2	UP TO 30 DAYS
		582.685-042	DECATING-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS
		582.685-046	DESIZING-MACHINE OPERATOR, HEAD-END	2	1 2	30 TO 90 DAYS
		582.685-050	DRUM ATTENDANT	1	1 1	UP TO 30 DAYS
		582.685-054	DYE-TANK TENDER	2	1 2	30 TO 90 DAYS
		582.685-058	DYED-YARN OPERATOR	2	1 2	UP TO 30 DAYS
		582.685-062	EXTRACTOR OPERATOR	2	1 2	30 TO 90 DAYS
		582.685-074	FUMIGATOR AND STERILIZER	2	1 2	UP TO 30 DAYS
		582.685-086	HAIR-BOILER OPERATOR	2	1 2	UP TO 30 DAYS
		582.685-090	JET-DYEING-MACHINE TENDER	2	1 2	30 TO 90 DAYS
		582.685-098	OPEN-DEVELOPER OPERATOR	3	2 2	THREE TO SIX MONTHS
		582.685-102	PACKAGE-DYEING-MACHINE OPERATOR	3	1 2	THREE TO SIX MONTHS
		582.685-106	PADDING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		582.685-110	PATCH WASHER	2	1 1	UP TO 30 DAYS
		582.685-114	ROPE-SILICA-MACHINE OPERATOR	2	1 2	30 TO 90 DAYS
		582.685-118	SATURATOR TENDER	3	1 2	30 TO 90 DAYS
		582.685-122	SCRUBBING-MACHINE OPERATOR	2	1 2	30 TO 90 DAYS
		582.685-126	SHEEPSKIN PICKLER	2	1 2	UP TO 30 DAYS
		582.685-130	SKEIN-YARN DYER	2	1 1	30 TO 90 DAYS
		582.685-134	SOAKER, HIDES	2	1 2	UP TO 30 DAYS
		582.685-138	SPRAY-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS
		582.685-142	STAINING-MACHINE OPERATOR	2	1 2	30 TO 90 DAYS
		582.685-146	STEAMER TENDER	2	1 2	UP TO 30 DAYS
		582.685-154	TIN-WHIZ-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		582.685-158	WARP-DYEING-VAT TENDER	2	1 2	THREE TO SIX MONTHS
		582.687-018	FELT-HAT STEAMER	1	1 1	SHORT DEMONSTRATION
		583.685-010	CALENDER-MACHINE OPERATOR	2	2 2	30 TO 90 DAYS
		583.682-010	COATING-AND-EMBOSSING-UNIT OPERATOR	3	2 2	ONE TO TWO YEARS
		583.685-010	BREAKER-MACHINE TENDER	2	1 2	UP TO 30 DAYS
		583.685-026	CALENDER OPERATOR	2	1 2	30 TO 90 DAYS
		583.685-030	EMBOSSER	2	1 2	30 TO 90 DAYS
		583.685-034	EMBOSSING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		583.685-038	EMBOSSING-MACHINE-OPERATOR HELPER	2	1 2	UP TO 30 DAYS
		583.685-062	JACQUARD-TWINE-POLISHER OPERATOR	2	1 2	30 TO 90 DAYS
		583.685-074	NARROW-FABRIC CALENDERER	2	1 1	UP TO 30 DAYS
		583.685-078	PILLOWCASE TURNER	2	1 1	30 TO 90 DAYS
		583.685-094	ROLLER-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		583.685-126	YARN-POLISHING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		584.382-010	COATING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		584.562-010	COATING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		584.665-010	COATER HELPER	2 1 2	30 TO 90 DAYS
		584.665-014	GLUE-SPREADING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		584.665-018	SIZING-MACHINE TENDER	2 2 2	30 TO 90 DAYS
		584.682-010	COATER	3 2 2	THREE TO SIX MONTHS
		584.682-014	LAMINATING-MACHINE OPERATOR	3 2 3	SIX TO 12 MONTHS
		584.685-010	CALENDER OPERATOR, ARTIFICIAL LEATH	2 2 2	30 TO 90 DAYS
		584.685-014	CLOTH-MERCERIZER OPERATOR	3 2 2	30 TO 90 DAYS
		584.685-018	COATING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		584.685-022	FOXING PAINTER	2 2 2	UP TO 30 DAYS
		584.685-026	HAT-STOCK-LAMINATING-MACHINE OPERAT	2 1 2	THREE TO SIX MONTHS
		584.685-030	KNIFE-MACHINE OPERATOR	2 1 2	THREE TO SIX MONTHS
		584.685-034	LAMINATOR	2 1 1	30 TO 90 DAYS
		584.685-042	MANGLE TENDER	2 1 2	UP TO 30 DAYS
		584.685-046	TARRING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		584.685-054	YARN-MERCERIZER OPERATOR 1	2 1 1	UP TO 30 DAYS
		584.685-058	YARN-MERCERIZER OPERATOR 2	2 1 2	30 TO 90 DAYS
		585.665-010	NAPPER TENDER	2 1 1	UP TO 30 DAYS
		585.685-018	BUFFER, MACHINE	2 1 1	30 TO 90 DAYS
		585.685-022	CHINCHILLA-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		585.685-034	CORDUROY-BRUSHER OPERATOR	2 1 2	UP TO 30 DAYS
		585.685-042	ELECTRIFIER OPERATOR	2 1 2	30 TO 90 DAYS
		585.685-050	GASSER	2 1 2	UP TO 30 DAYS
		585.685-054	GIG TENDER	2 1 2	UP TO 30 DAYS
		585.685-070	NAPPER TENDER	2 1 2	30 TO 90 DAYS
		585.685-078	ROLLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		585.685-106	SINGER	2 1 2	30 TO 90 DAYS
		586.382-010	FULLING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		586.662-010	FLLTING-MACHINE OPERATOR	3 2 3	THREE TO SIX MONTHS
		586.682-010	FULLER	3 2 3	THREE TO SIX MONTHS
		586.685-010	CARKOTING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		586.685-018	FELT-STRIP FINISHER	2 1 2	30 TO 90 DAYS
		586.685-022	FELTMAKER AND WEIGHER	2 2 2	30 TO 90 DAYS
		586.685-026	HARDENING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		586.685-030	HAT-FORMING-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		586.685-034	SHRINKING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		586.687-010	FELT CARBONIZER	2 1 2	30 TO 90 DAYS
		587.585-010	AUTOCLAVE OPERATOR	2 1 2	UP TO 30 DAYS
		587.682-010	AUTOCLAVE OPERATOR	3 2 2	THREE TO SIX MONTHS
		587.685-010	BRUSH OPERATOR	2 1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		587.685-014	BRUSHER, MACHINE	2	1 1	UP	10 30 DAYS
		587.685-018	CLOTH-SHRINKING-MACHINE OPERATOR	2	1 2	30	10 90 DAYS
		587.685-022	CONDITIONER TENDER	2	1 1	30	10 90 DAYS
		587.685-030	STRIKE-OUT-MACHINE OPERATOR	2	1 2	UP	10 30 DAYS
		589.485-010	PAD-EXTRACTOR TENDER	2	1 2	30	10 90 DAYS
		589.562-010	CLOTH-FINISHING-RANGE OPERATOR, CHI	3	2 3	SIX	TO 12 MONTHS
		589.662-010	SCOURING-TRAIN OPERATOR	3	2 3	THREE	10 SIX MONTHS
		589.662-014	TIRE-FABRIC-IMPREGNATING-RANGE OPER	3	2 2	SIX	TO 12 MONTHS
		589.665-010	BONDING-MACHINE TENDER	3	2 2	THREE	10 SIX MONTHS
		589.665-014	CLOTH-FINISHING-RANGE OPERATOR	2	2 2	UP	10 30 DAYS
		589.685-010	BOARDING-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		589.685-014	BREAKER-UP-MACHINE OPERATOR	1	1 1	UP	10 30 DAYS
		589.685-018	BURN-OUT TENDER, LACE	2	1 2	30	TO 90 DAYS
		589.685-022	CLOTH MEASURER, MACHINE	2	1 2	30	TO 90 DAYS
		589.685-026	CLOTH-FINISHING-RANGE TENDER	3	1 2	30	TO 90 DAYS
		589.685-030	DEACKER	1	1 1	UP	10 30 DAYS
		589.685-034	DRUMMER	1	1 1	UP	10 30 DAYS
		589.685-042	DYER HELPER	2	2 2	UP	10 30 DAYS
		589.685-046	EDGE STAINER 1	2	1 1	30	TO 90 DAYS
		589.685-058	FOLDING-MACHINE OPERATOR	2	1 2	UP	10 30 DAYS
		589.685-070	MEASURING-MACHINE OPERATOR	1	1 1	UP	10 30 DAYS
		589.685-074	PLEATER	1	1 1	UP	10 30 DAYS
		589.685-078	PULLER, MACHINE	1	1 1	UP	10 30 DAYS
		589.685-082	RENOVATOR-MACHINE OPERATOR	1	1 1	UP	10 30 DAYS
		589.685-090	SCUTCHER TENDER	2	1 1	UP	10 30 DAYS
		589.685-094	SHAKER	1	1 1	UP	10 30 DAYS
		589.685-098	WRINGER-MACHINE OPERATOR	1	1 1	UP	10 30 DAYS
		589.685-102	YARN-TEXTURING-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		589.686-022	FUR-FLOOR WORKER	1	1 1	UP	10 30 DAYS
		680.585-014	STAPLE-PROCESSING-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		680.665-010	COMBER TENDER	2	1 1	30	TO 90 DAYS
		680.665-014	DRAW-MACHINE OPERATOR	2	1 1	30	TO 90 DAYS
		680.665-018	MIDDLE-CARD TENDER	2	1 1	UP	10 30 DAYS
		680.685-010	BLENDING-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		680.685-014	CARD STRIPPER	2	1 1	30	TO 90 DAYS
		680.685-018	CARD TENDER	2	1 2	30	TO 90 DAYS
		680.685-026	CRIMP SETTER	2	1 1	30	TO 90 DAYS
		680.685-030	CRIMPING-MACHINE OPERATOR	2	1 1	30	TO 90 DAYS
		680.685-034	DRAW-FRAME TENDER	2	1 2	30	TO 90 DAYS
		680.685-038	DRAWING-FRAME TENDER	2	1 1	30	TO 90 DAYS
		680.685-046	FUR-BLOWER OPERATOR	2	1 1	THREE	TO SIX MONTHS
		680.685-050	GARNETT-MACHINE OPERATOR	2	1 1	30	TO 90 DAYS

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CODE	TITLE	CODE	TITLE	R	M L		
		680.685-054	GARNETTER	3	1 2	30	TO 90 DAYS
		680.685-058	GILL-BOX TENDER	2	1 1	30	TO 90 DAYS
		680.685-062	MIXER	2	1 1	30	TO 90 DAYS
		680.685-066	MIXING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		680.685-070	OPENER TENDER	2	1 1	UP TO	30 DAYS
		680.685-074	PICKER TENDER	3	1 2	30	TO 90 DAYS
		680.685-078	PICKER-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		680.685-082	PICKING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		680.685-086	RIBBON-LAP-MACHINE TENDER	2	1 1	UP TO	30 DAYS
		680.685-090	SILK SPREADER	2	1 1	30	TO 90 DAYS
		680.685-098	SLUBBER TENDER	2	1 1	30	TO 90 DAYS
		680.685-106	STRAND-AND-BINDER CONTROLLER	2	1 1	UP TO	30 DAYS
		680.685-110	STRETCH-BOX TENDER	2	1 1	UP TO	30 DAYS
		680.685-114	WASTE-MACHINE TENDER	1	1 1	UP TO	30 DAYS
		681.685-054	LEASING-MACHINE TENDER	2	1 1	UP TO	30 DAYS
		681.685-146	WAPER	2	1 1	THREE TO	SIX MONTHS
		683.685-010	BRAIDING-MACHINE OPERATOR	2	1 1	30	TO 90 DAYS
		683.685-018	CARD LACER, JACQUARD	2	1 1	UP TO	30 DAYS
		683.685-034	WARP-TYING-MACHINE TENDER	3	1 2	THREE TO	SIX MONTHS
		686.685-034	HANDLE-AND-VENT-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		686.685-062	SHOELACE-TIPPING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		686.685-070	TUBULAR-SPIITING-MACHINE TENDER	2	1 2	UP TO	30 DAYS
		687.682-010	FLOWER-MACHINE OPERATOR	3	1 2	THREE TO	SIX MONTHS
		687.682-014	TUFT-MACHINE OPERATOR	3	1 2	THREE TO	SIX MONTHS
		687.685-010	NEEDLE-CONTROL CHENILLER	3	2 2	30	TO 90 DAYS
		687.685-014	TUFTING-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		687.685-018	TUFTING-MACHINE OPERATOR	3	2 3	30	TO 90 DAYS
		687.685-022	TUFTING-MACHINE OPERATOR, SINGLE-NE	2	1 2	30	TO 90 DAYS
		689.585-010	BLANKET-CUTTING-MACHINE OPERATOR	2	1 2	30	TO 90 DAYS
		689.585-014	FOLDING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		689.662-010	NEEDLE-LOOM OPERATOR	3	2 3	SIX TO	12 MONTHS
		689.665-018	VACUUM-TANK TENDER	2	1 1	UP TO	30 DAYS
		689.682-010	LOOPER	3	1 2	THREE TO	SIX MONTHS
		689.685-010	BALL-FRINGE-MACHINE OPERATOR	2	1 1	30	TO 90 DAYS
		689.685-022	BOBBIN STRIPPER	2	1 1	UP TO	30 DAYS
		689.685-030	BOW-MAKER-MACHINE TENDER, AUTOMATIC	2	1 1	30	TO 90 DAYS
		689.685-034	BUFFING-WHEEL FORMER, AUTOMATIC	2	1 2	UP TO	30 DAYS
		689.685-042	CLOTH RECLER	2	1 1	UP TO	30 DAYS
		689.685-054	CRUSHER-AND-BINDER OPERATOR	2	1 1	UP TO	30 DAYS
		689.685-058	DRAWSTRING KNOTTER	2	1 1	UP TO	30 DAYS
		689.685-062	DROP-WIRE ALINER	1	1 1	UP TO	30 DAYS
		689.685-070	HEDDLE CLEANER, MACHINE	2	1 1	UP TO	30 DAYS

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CODE TITLE	CODE TITLE	R M I	
	689.685-082 KAPOK-AND-COTTON-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
	689.685-090 NEEDLE-LOOM TENDER	3 1 2	30 TO 90 DAYS
	689.685-094 PICK-PULLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	689.685-102 QUILT STUFFER, MACHINE	2 1 2	UP TO 30 DAYS
	689.685-110 ROLL TURNER	1 1 1	UP TO 30 DAYS
	689.685-122 SPLICING-MACHINE OPERATOR, AUTOMATI	2 1 1	UP TO 30 DAYS
	689.685-130 SURGICAL-DRESSING MAKER	2 1 1	UP TO 30 DAYS
	689.685-134 TAPE-FOLDING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
	689.685-142 TASSEL-MAKING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	689.685-146 TURNING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	689.685-158 YARN-TEXTURING-MACHINE OPERATOR 2	2 1 1	30 TO 90 DAYS
	689.687-074 SPANNER	1 1 1	UP TO 30 DAYS
	690.685-178 FOLDING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	690.685-266 LEATHER-BELT MAKER	2 1 2	30 TO 90 DAYS
	690.685-374 SKIVER	2 1 2	THREE TO SIX MONTHS
	692.685-026 BRASSIERE-SLIDE-MAKING-MACHINE TEND	1 1 1	UP TO 30 DAYS
	692.685-074 DIELECTRIC-PRESS OPERATOR	2 1 2	UP TO 30 DAYS
	692.685-110 LAMP-SHADE JOINER	1 1 1	UP TO 30 DAYS
	692.685-150 SANITARY-NAPKIN-MACHINE TENDER	2 1 2	UP TO 30 DAYS
	699.685-022 EYELET-PUNCH OPERATOR	2 1 1	UP TO 30 DAYS
	781.684-038 NYLON-HOT-WIRE CUTTER	2 2 1	30 TO 90 DAYS
	781.684-050 RUG-SAMPLE BEVELER	1 1 1	UP TO 30 DAYS
	783.685-010 COVERING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
	783.685-018 DISK-AND-TAPE-MACHINE TENDER	2 1 1	UP TO 30 DAYS
	786.685-038 ULTRASONIC-SEAMING-MACHINE OPERATOR	2 1 1	SHORT DEMONSTRATION
12.0101 DRYCLEANING AND LAUNDERING SERVICES	369.685-026 RUG-DRY-ROOM ATTENDANT	2 1 1	UP TO 30 DAYS
	369.685-030 SHIRT-FOLDING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
	369.685-034 TUMBLER OPERATOR	2 1 1	UP TO 30 DAYS
	581.685-042 EXTRACTOR OPERATOR	2 1 2	UP TO 30 DAYS
	582.685-018 BLEACH-RANGE OPERATOR	2 1 2	UP TO 30 DAYS
	582.685-022 BOIL-OFF-MACHINE OPERATOR, CLOTH	2 1 2	UP TO 30 DAYS
	582.685-030 CLOTH-WASHER OPERATOR	2 1 2	UP TO 30 DAYS
	582.685-066 FEATHER WASHER	2 1 1	UP TO 30 DAYS
	582.685-070 FELT-WASHING-MACHINE TENDER	2 1 2	30 TO 90 DAYS
	582.685-094 KNIT-GOODS WASHER	3 1 2	THREE TO SIX MONTHS
	582.685-150 STEAMING-CABINET TENDER	2 1 1	UP TO 30 DAYS
	582.685-162 WASHER	2 1 2	30 TO 90 DAYS
	582.685-166 WOOL-WASHING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
	589.685-038 DRY CLEANER	2 1 1	UP TO 30 DAYS
	589.685-066 LAUNDRY-MACHINE TENDER	2 1 1	30 TO 90 DAYS
20.0302 CLOTHING MAINTENANCE AIDE	369.685-034 TUMBLER OPERATOR	2 1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M L	UP TO	DAYS
		589.685-038	DRY CLEANER	2	1 1	UP TO	30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	369.685-030	SHIRT-FOLDING-MACHINE OPERATOR	2	1 2	UP TO	30 DAYS
		580.685-010	BRIM-STRETCHING-MACHINE OPERATOR	2	1 1	30 TO	90 DAYS
		580.685-018	COLLAR-TURNER OPERATOR	2	1 2	UP TO	30 DAYS
		580.685-026	HAT-BLOCKING-MACHINE OPERATOR 1	2	1 1	THREE TO	SIX MONTHS
		580.685-030	HAT-BLOCKING-MACHINE OPERATOR 2	1	1 1	UP TO	30 DAYS
		580.685-038	HYDRAULIC BLOCKER	2	1 2	THREE TO	SIX MONTHS
		580.685-042	MOLDER	2	1 1	THREE TO	SIX MONTHS
		580.685-046	ROLLER OPERATOR	2	1 2	UP TO	30 DAYS
		580.685-050	STAKER, MACHINE	2	1 1	UP TO	30 DAYS
		580.685-054	STRETCHER	2	1 1	UP TO	30 DAYS
		580.685-062	TIP STRETCHER	2	1 1	UP TO	30 DAYS
		582.585-014	DYE-TUB OPERATOR	2	1 2	30 TO	90 DAYS
		582.685-034	COLORING-MACHINE OPERATOR	3	2 2	30 TO	90 DAYS
		582.685-078	GARMENT STEAMER	2	1 1	UP TO	30 DAYS
		582.685-082	GREASER OPERATOR	2	1 1	30 TO	90 DAYS
		583.685-014	BRIM CURLER	2	1 1	UP TO	30 DAYS
		583.685-042	FOLDING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		583.685-046	FUSING-MACHINE TENDER	1	1 1	UP TO	30 DAYS
		583.685-066	LEATHER ETCHER	3	2 3	30 TO	90 DAYS
		583.686-010	BEAD-MACHINE OPERATOR	2	1 2	UP TO	30 DAYS
		585.565-010	CORDUROY-CUTTER OPERATOR	2	1 2	30 TO	90 DAYS
		585.685-010	BRIM-POUNCING-MACHINE OPERATOR	2	1 2	30 TO	90 DAYS
		585.685-014	BUFFER	2	1 2	30 TO	90 DAYS
		585.685-058	JIGGER-CROWN-POUNCING-MACHINE OPERA	2	1 1	30 TO	90 DAYS
		585.685-066	MELLOWING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		585.685-074	POUNCING-LATHE OPERATOR	2	1 2	UP TO	30 DAYS
		585.685-086	ROUNDING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		585.685-122	SWEATBAND SEPARATOR	2	1 1	UP TO	30 DAYS
		587.685-026	DUSTER	2	1 1	UP TO	30 DAYS
		589.685-062	HAT FINISHER	2	2 2	THREE TO	SIX MONTHS
		686.685-030	FOLDER	2	1 2	UP TO	30 DAYS
		686.685-038	PERFORATING-MACHINE OPERATOR	2	1 2	UP TO	30 DAYS
		686.685-054	RIVEI-HOLE PUNCHER	2	1 1	UP TO	30 DAYS
		689.585-018	STRINGING-MACHINE TENDER	2	1 2	UP TO	30 DAYS
		689.665-010	STRAP BUCKLER, MACHINE	2	1 2	30 TO	90 DAYS
		689.682-014	NEEDLE-PUNCH-MACHINE OPERATOR	2	1 2	30 TO	90 DAYS
		689.685-074	HELMET COVERER	2	1 1	30 TO	90 DAYS
		689.685-086	LABEL-CUTTING-AND-FOLDING-MACHINE O	2	1 1	UP TO	30 DAYS
		699.685-010	BUTTON-ATTACHING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		781.685-010	SPREADER, MACHINE	2	1 1	30 TO	90 DAYS

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CODE	TITLE	CODE	TITLE	R	M L		
		783.685-014	CREASER	3	1 2	THREE	TO SIX MONTHS
		783.685-022	LAMINATOR 2	2	1 1	UP TO	30 DAYS
		783.685-026	MARKING-MACHINE TENDER	2	1 1	UP TO	30 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	686.685-046	PREPLEATER	3	1 2	30 TO	90 DAYS
48.0304	SHOE AND BOOT REPAIR	585.685-030	CONCAVING-MACHINE OPERATOR	2	1 2	UP TO	30 DAYS
		585.685-110	SKIVER, BLOCKERS	2	1 2	UP TO	30 DAYS
		585.685-114	SPLITTER, MACHINE	2	1 1	UP TO	30 DAYS
		690.685-074	CEMENTER, MACHINE JOINER	2	1 2	UP TO	30 DAYS
		690.685-086	CHANNELER, INSOLE	2	1 2	30 TO	90 DAYS
		690.685-098	COUNTER FORMER	2	1 2	UP TO	30 DAYS
		690.685-138	EDGE BURNISHER, UPPERS	2	1 1	30 TO	90 DAYS
		690.685-174	FOLDER, MACHINE	2	1 2	30 TO	90 DAYS
		690.685-206	HEEL BUILDER, MACHINE	2	1 2	30 TO	90 DAYS
		690.685-210	HEEL COMPRESSOR	1	1 1	UP TO	30 DAYS
		690.685-246	INSOLE REINFORCER	2	1 1	30 TO	90 DAYS
		690.685-358	SIDE LASTER, CEMENT	2	1 1	30 TO	90 DAYS
		690.685-414	TAPER, MACHINE	2	1 2	30 TO	90 DAYS
		690.685-430	TOE LASTER, AUTOMATIC	2	1 2	30 TO	90 DAYS
		690.685-462	VULCANIZER	2	1 1	UP TO	30 DAYS
		690.685-474	WELT BUTTER, MACHINE	2	1 2	UP TO	30 DAYS
		690.685-486	WIDTH STRIPPER	2	1 2	30 TO	90 DAYS
		690.686-066	TOGGLE-PRESS FOLDER-AND-FEEDER	1	1 1	UP TO	30 DAYS
		699.685-018	EYELET-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 7660

MACHINE OPERATORS AND TENDERS: ASSORTED MATERIALS

These workers operate machines that process or manufacture products. Workers set and adjust machines, measure and load materials, and watch operations. They check processed materials. These machines may do such diverse things as fold boxes, glue skis, supply heat to buildings, or mix paints or breads. They may cool plasma, shape plastics or chocolate chips, separate precious metals from ore, develop film, compress fruits for juice, or bleach paper pulp.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7661

CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to cement, glue, or tape together parts of products. They set or adjust machine controls, mount or load materials in the machines, fill glue or other containers, and watch machine operations to detect problems. They also check finished articles for defects. They may perform other tasks such as cleaning and oiling equipment, clearing machine jams, and keeping production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	569.685-018	CORE FEEDER, PLYWOOD LAYUP LINE	2	1 1	30 TO 90 DAYS
		569.685-022	CORE-COMPOSER-MACHINE TENDER	2	1 1	30 TO 90 DAYS
		569.685-034	EDGE-GLUE-MACHINE TENDER	2	1 1	UP TO 30 DAYS
		579.685-022	GLASS-WOOL-BLANKET-MACHINE FEEDER	2	1 1	30 TO 90 DAYS
		620.685-010	BONDER, AUTOMOBILE BRAKES	2	1 2	30 TO 90 DAYS
		640.685-014	BOOK-JACKET-COVER-MACHINE OPERATOR	3	2 2	30 TO 90 DAYS
		641.662-010	BOX-SEALING-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		641.682-010	BLANKET-WINDER OPERATOR	3	2 2	THREE TO SIX MONTHS
		641.685-014	BOARD-LINER OPERATOR	2	1 1	30 TO 90 DAYS
		641.685-018	BOX-LINING-MACHINE FEEDER	2	1 1	UP TO 30 DAYS
		641.685-030	CHIP-APPLYING-MACHINE TENDER	2	1 1	30 TO 90 DAYS
		641.685-034	COVER STRIPPER	2	1 1	UP TO 30 DAYS
		641.685-042	ENDING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		641.685-046	EXTENSION EDGER	2	1 1	UP TO 30 DAYS
		641.685-058	LINER-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		641.685-066	PATCH-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		641.685-074	SEALING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		641.685-082	SPOOL MAKER	1	1 1	UP TO 30 DAYS
		641.685-090	STRIPPING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		641.685-098	WRAPPING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		649.685-050	HANDLE-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		649.685-126	TAPER OPERATOR	2	1 1	30 TO 90 DAYS
		649.686-014	CARD DECORATOR	2	1 1	UP TO 30 DAYS
		689.685-138	TAPE-MAKING-MACHINE OPERATOR	2	1 2	30 TO 90 DAYS
		690.685-134	DUAL-HOSE CEMENTER	2	1 2	UP TO 30 DAYS
		692.685-022	BEAD PREPARER	2	1 1	30 TO 90 DAYS
		692.685-062	CROWN-ASSEMBLY-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		692.685-098	GLUING-MACHINE OPERATOR	1	1 1	UP TO 30 DAYS
		739.685-018	BRUSH-HEAD MAKER	2	1 1	UP TO 30 DAYS
		750.684-010	BAND BUILDER	2	2 2	30 TO 90 DAYS
		759.484-010	ROLL BUILDER	2	1 2	30 TO 90 DAYS
		759.684-066	V-BELT BUILDER	3	1 2	THREE TO SIX MONTHS
		795.687-010	COVERER, LOOSELEAF BINDER	2	2 1	THREE TO SIX MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	692.685-170	SKI TOPPER	2	1 1	UP TO 30 DAYS

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OCCUPATION: 7661 CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
47.0408	WATCH REPAIR	715.685-010	COLLET GLUER	2 1 1	UP TO 30 DAYS
48.6202	BOOKBINDING	653.685-018	CASE-MAKING-MACHINE OPERATOR	2 1 1	THREE TO SIX MONTHS
48.0304	SHOE AND BOOT REPAIR	690.685-070	CEMENTER AND FOLDER, MACHINE	2 1 2	30 TO 90 DAYS
		692.685-050	CEMENTER, MACHINE	1 1 1	UP TO 30 DAYS
48.0702	FURNITURE MAKING	762.685-010	EDGE BANDER, MACHINE	2 2 2	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7662

PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to fill articles with materials or to package products. They may fill medicine capsules or stuffed toys, or package food or tobacco products. They load materials into the machines, set controls, and clear machine jams when necessary. They may also replace worn or damaged machine parts, clean used equipment, weigh sample products, and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	529.665-010	FRUIT-GRADER OPERATOR	2 1 1	UP TO 30 DAYS
		529.665-022	YEAST-CUTTING-AND-WRAPPING-MACHINE	2 1 1	UP TO 30 DAYS
		529.685-010	AUTO ROLLER	2 1 1	UP TO 30 DAYS
		529.685-038	BUNCH MAKER, MACHINE	2 1 1	UP TO 30 DAYS
		529.685-186	PLUG-OVERWRAP-MACHINE TENDER	2 1 2	30 TO 90 DAYS
		529.685-190	PRESERVATIVE FILLER, MACHINE	2 1 2	30 TO 90 DAYS
		529.685-266	WRAPPER LAYER	2 1 2	30 TO 90 DAYS
		529.685-270	WRAPPER-LAYER-AND-EXAMINER, SOFT WO	2 1 1	UP TO 30 DAYS
		529.685-282	CAN-FILLING-AND-CLOSING-MACHINE IEN	2 1 1	UP TO 30 DAYS
		529.685-286	CIGAR-WRAPPER TENDER, AUTOMATIC	2 1 2	UP TO 30 DAYS
		554.684-014	FOAM DISPENSER	2 1 1	30 TO 90 DAYS
		559.565-010	CYLINDER FILLER	3 2 2	30 TO 90 DAYS
		559.682-010	CAPSULE-FILLING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		559.685-018	AMPOULE FILLER	2 1 1	UP TO 30 DAYS
		579.685-038	PACKER, INSULATION	2 1 1	UP TO 30 DAYS
		649.685-094	PUNCHBOARD-FILLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		649.685-122	TAPE-FASTENER-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		690.685-022	BALER	2 1 1	UP TO 30 DAYS
		692.662-014	GELATIN-DYNAMITE-PACKING OPERATOR	3 2 3	SIX TO 12 MONTHS
		692.682-058	STRAPPING-MACHINE OPERATOR	3 1 2	THREE TO SIX MONTHS
		692.685-114	LEVEL-GLASS-VIAL FILLER	1 1 1	UP TO 30 DAYS
		692.685-154	SEAL-EXTRUSION OPERATOR	2 1 1	UP TO 30 DAYS
		694.382-014	TRACER-BULLET-CHARGING-MACHINE OPER	3 2 3	THREE TO SIX MONTHS
		694.685-026	LOADING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		694.685-030	LOADING-UNIT OPERATOR	2 1 2	UP TO 30 DAYS
		694.685-050	RIM-FIRE-PRIMING OPERATOR	2 1 2	30 TO 90 DAYS
		731.685-014	STUFFER	2 1 1	UP TO 30 DAYS
		914.485-010	BARREL FILLER	2 2 1	30 TO 90 DAYS
		920.465-010	COTTON BALER	2 2 2	30 TO 90 DAYS
		920.482-010	ICICLE-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		920.585-010	BUNDLE TIER AND LABELER	2 1 1	UP TO 30 DAYS
		920.665-010	CARTON-PACKAGING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		920.665-014	RACK-ROOM WORKER	2 1 1	UP TO 30 DAYS
		920.685-014	BANDER-AND-CELLOPHANER, MACHINE	2 1 1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7662 PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		920.685-018	BB SHOT PACKER	2	1	1	UP TO 30 DAYS
		920.685-026	BOTTLE PACKER	2	1	1	UP TO 30 DAYS
		920.685-030	CANDLE WRAPPING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		920.685-034	CARDER	2	1	1	UP TO 30 DAYS
		920.685-038	CASE PACKER AND SEALER	2	1	2	30 TO 90 DAYS
		920.685-042	CASE-LOADER OPERATOR	2	1	1	UP TO 30 DAYS
		920.685-046	CIGAR BRANDER	2	1	1	UP TO 30 DAYS
		920.685-050	CIGARETTE-PACKING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		920.685-054	COTTON-ROLL PACKER	2	1	1	UP TO 30 DAYS
		920.685-058	FEED WEIGHER	2	1	1	UP TO 30 DAYS
		920.685-062	HYDRAULIC-PRESS OPERATOR	2	1	2	UP TO 30 DAYS
		920.685-066	LABELING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		920.685-074	PACKAGE SEALER, MACHINE	2	1	1	UP TO 30 DAYS
		920.685-078	PACKAGER, MACHINE	2	1	1	UP TO 30 DAYS
		920.685-082	PACKER OPERATOR, AUTOMATIC	2	1	1	UP TO 30 DAYS
		920.685-086	PACKING-MACHINE-PILOT CAN ROUTER	2	1	1	UP TO 30 DAYS
		920.685-090	ROLL FINISHER	2	1	1	UP TO 30 DAYS
		920.685-094	SNUFF-PACKING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		920.685-098	TOBACCO-PACKING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.685-010	BASE-FILLER OPERATOR	2	1	1	UP TO 30 DAYS
		732.685-034	STUFFING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
48.0303	UPHOLSTERING	780.685-014	STUFFING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	520.685-174	MOLDER, MEAT	2	1	1	UP TO 30 DAYS
		520.685-210	STUFFER	2	1	1	UP TO 30 DAYS
		525.685-014	CASING-RUNNING-MACHINE TENDER	1	1	1	UP TO 30 DAYS
		529.685-138	HAM-ROLLING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		529.685-162	LINKING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
48.0604	PLASTICS	554.682-011	MASKING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
49.0203	MATERIAL HANDLING	929.685-014	TYING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		929.685-018	TYING-MACHINE OPERATOR, LUMBER	2	1	1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7663

EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to extrude (press out) or form materials into desired shapes. The products they may form include: cheese balls, candies, animal feed pellets, gaskets, bowling balls, and silverware. They install and adjust machine parts, load materials in the machines, and watch for problems with machine operations. They adjust machine settings, oil and clean parts, and clear away jammed material. They also check finished products for defects and may weigh products and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
00.0000	NO CIP ASSIGNED	520.685-038	CAKE FORMER	2 1 1	UP TO 30 DAYS
		520.685-058	CASTING-MACHINE OPERATOR	2 2 1	30 TO 90 DAYS
		520.685-078	CONFECTIONERY-DROPS-MACHINE OPERATO	1 1 1	UP TO 30 DAYS
		520.685-126	LUMP-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		520.685-178	PELLET-MILL OPERATOR	2 1 1	UP TO 30 DAYS
		520.685-186	PRESS TENDER	3	1 THREE TO SIX MONTHS
		520.685-198	ROLLING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		520.685-218	TRAY-CASTING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		529.685-014	AUTOMATIC LUMP MAKING MACHINE TENDE	2 1 2	UP TO 30 DAYS
		529.685-042	BUTT MAKER	2 1 1	UP TO 30 DAYS
		529.685-054	CHOCOLATE MOLDER, MACHINE	3 2 2	THREE TO SIX MONTHS
		529.685-210	SANDWICH-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		529.685-234	SUCKER-MACHINE OPERATOR	1 1 1	30 TO 90 DAYS
		535.482-010	WAD-COMPRESOR OPERATOR-ADJUSTER	3 3 2	THREE TO SIX MONTHS
		539.685-018	MOLDING-MACHINE TENDER	2 2 1	30 TO 90 DAYS
		539.685-022	PUMP-PRESS OPERATOR	3 2 2	THREE TO SIX MONTHS
		539.685-026	SCREEN HANDLER	2 1 1	UP TO 30 DAYS
		539.685-030	WET-MACHINE TENDER	2 2 2	30 TO 90 DAYS
		549.685-018	MOLDER, WAX	2 2 1	THREE TO SIX MONTHS
		555.685-042	PELLET-PRESS OPERATOR	3 2 1	30 TO 90 DAYS
		556.382-018	POLYSTYRENE-BEAD MOLDER	3 2 2	THREE TO SIX MONTHS
		556.385-010	CENTRIFUGAL-CASTING-MACHINE TENDER	3 2 2	30 TO 90 DAYS
		556.682-010	BLOW-MOLDING-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		556.684-022	NEEDLE-BAR MOLDER	2 1 1	UP TO 30 DAYS
		556.685-030	DIPPER	2 1 1	UP TO 30 DAYS
		556.685-034	DIPPING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		556.685-050	MOLDER, MACHINE	3 2 1	THREE TO SIX MONTHS
		556.685-062	POLYSTYRENE-MOLDING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		556.685-066	PRESS TENDER	2 1 1	UP TO 30 DAYS
		557.565-010	EXTRUDING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		557.565-014	SYNTHETIC-FILAMENT EXTRUDER	2 1 1	30 TO 90 DAYS
		557.685-010	CORE EXTRUDER	2 1 1	UP TO 30 DAYS
		557.685-014	EXTRUDER TENDER	2 1 1	30 TO 90 DAYS
		559.665-022	FORMING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS

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OCCUPATION: 7663 EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		559.682-050	SPONGE-PRESS OPERATOR	3	2	2	THREE TO SIX MONTHS
		559.685-030	BRIQUETTER OPERATOR	3	2	2	30 TO 90 DAYS
		559.685-126	NOODLE-CATALYST MAKER	2	1	1	UP TO 30 DAYS
		559.685-174	TUBE-BUILDING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		559.685-186	WET-END OPERATOR 1	3	2	2	THREE TO SIX MONTHS
		569.682-014	PRESS OPERATOR, HARDBOARD	3	2	2	SIX TO 12 MONTHS
		569.685-038	EXTRUDER OPERATOR	2	2	2	UP TO 30 DAYS
		575.685-018	CHALK-EXTRUDING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		575.685-022	CHALK-MOLDING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		575.685-046	HYDRAULIC-BILLET MAKER	2	1	1	30 TO 90 DAYS
		575.685-050	LEAD FORMER	1	1	1	UP TO 30 DAYS
		575.685-062	MOLDER-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		575.685-066	MOLDER, FIBERGLASS LUGGAGE	2	1	1	UP TO 30 DAYS
		579.685-026	MICA-PLATE LAYER	2	1	1	UP TO 30 DAYS
		590.682-010	CALENDER OPERATOR	3	2	3	THREE TO SIX MONTHS
		641.685-038	DOMER	2	1	1	UP TO 30 DAYS
		641.685-062	PAPER-CONE-MACHINE TENDER	2	1	1	UP TO 30 DAYS
		649.685-078	PAPER-CUP-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		649.685-086	PATTERNMAKER, ACOUSTICAL TILE	3	2	1	THREE TO SIX MONTHS
		649.685-098	RING-MAKING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		679.685-026	TURNING-AND-BEADING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		691.382-010	EXTRUDING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		691.382-014	LEAD-PRESS OPERATOR	3	2	2	THREE TO SIX MONTHS
		692.485-010	STRINGER-MACHINE TENDER	2	1	2	UP TO 30 DAYS
		692.682-026	CANDLE-EXTRUSION-MACHINE OPERATOR	3	2	3	THREE TO SIX MONTHS
		692.685-038	CANDLE MOLDER, MACHINE	2	1	2	THREE TO SIX MONTHS
		692.685-058	CORE SHAPER	2	1	2	UP TO 30 DAYS
		694.685-034	PELLET-PRESS OPERATOR	2	1	2	30 TO 90 DAYS
		700.682-010	FLATWARE MAKER	3	2	2	TWO TO FOUR YEARS
		716.685-014	DRILLER	2	1	1	30 TO 90 DAYS
20.0402	BAKING	520.685-086	DIVIDING-MACHINE OPERATOR	3	1	1	30 TO 90 DAYS
		520.685-190	PRETZEL-TWISTING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		520.685-214	SWEET-GOODS-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		524.685-030	FILLING MACHINE TENDER	2	1	2	30 TO 90 DAYS
20.0406	FOOD SERVICE	520.685-062	CASTING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		520.685-102	FLAKING-ROLL OPERATOR	3	1	1	30 TO 90 DAYS
		529.685-078	CORN-PRESS OPERATOR	2	1	1	30 TO 90 DAYS
46.0402	CONCRETE PLACING AND FINISHING	575.665-010	CONCRETE-PIPE-MAKING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		575.685-014	BLOCK-MAKING-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS

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OCCUPATION: 7663 EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		579.685-042	PRECAST MOLDER	2	1 2	30 TO 90 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.687-054	MOLDER, INFLATED BALL	2	1 1	UP TO 30 DAYS
48.0504	METAL FABRICATION	692.685-034	BUCKLE-FRAME SHAPER	2	1 2	30 TO 90 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	575.360-010	GLASS-BULB-MACHINE ADJUSTER	4	3 3	ONE TO TWO YEARS
		575.362-010	DRAWING-KILN OPERATOR	3	2 2	30 TO 90 DAYS
		575.362-014	GLASS-RIBBON-MACHINE OPERATOR	4	3 3	TWO TO FOUR YEARS
		575.365-010	GLASS-RIBBON-MACHINE-OPERATOR ASSIS	3	2 3	ONE TO TWO YEARS
		575.382-018	GLASS-BULB-MACHINE FORMER, TUBULAR	3	2 3	SIX TO 12 MONTHS
		575.382-026	RETORT-OR-CONDENSER PRESS OPERATOR	3	1 1	THREE TO SIX MONTHS
		575.462-010	AUGER PRESS OPERATOR, MANUAL CONTRO	3	2 2	ONE TO TWO YEARS
		575.662-010	DRY-PRESS OPERATOR	3	2 2	SIX TO 12 MONTHS
		575.662-014	YARDAGE-CONTROL OPERATOR, FORMING	3	3 3	SIX TO 12 MONTHS
		575.665-014	DIE TRIPPER	2	2 1	UP TO 30 DAYS
		575.682-014	MOLDING-MACHINE OPERATOR	3	1 1	THREE TO SIX MONTHS
		575.682-018	PRESS OPERATOR	3	2 2	THREE TO SIX MONTHS
		575.685-026	DIE PRESSER	3	2 1	30 TO 90 DAYS
		575.685-030	FIBER-MACHINE TENDER	3	1 1	30 TO 90 DAYS
		575.685-034	FLOWER-POT-PRESS OPERATOR	2	1 1	UP TO 30 DAYS
575.685-038	FORMING-MACHINE TENDER	3	2 2	THREE TO SIX MONTHS		
575.685-054	LENS-MOLDING-EQUIPMENT OPERATOR	2	1 1	30 TO 90 DAYS		
575.685-058	MARBLE-MACHINE TENDER	2	2 2	30 TO 90 DAYS		
575.685-074	PRESSER	2	1 1	30 TO 90 DAYS		
575.685-014	DRILLER, MACHINE	2	1 1	UP TO 30 DAYS		
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	549.685-038	WAX MOLDER	2	1 2	UP TO 30 DAYS
		559.684-018	RUBBER-MOLD MAKER	2	1 1	30 TO 90 DAYS
		575.685-078	SYNTHETIC-GEM-PRESS OPERATOR	2	1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7664

MIXING AND BLENDING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to mix or blend ingredients to make materials such as paint, candy, doughs, ice cream, animal feed, sausage, mortar, chemicals, or wine. They measure or weigh ingredients and pour or load them into the machines. They may follow work orders, charts, or formulas to determine the amounts of different ingredients required. They start machines and watch them operate to detect problems. They may check gauges and meter readings, and move controls to regulate machine actions. They also may inspect and clean machine units.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	509.485-010	COMPOUND MIXER	3	2	2 THREE TO SIX MONTHS
		510.465-014	SLURRY-CONTROL TENDER	3	2	2 SIX TO 12 MONTHS
		511.685-046	REAGENT TENDER	3	1	1 THREE TO SIX MONTHS
		520.362-010	BULK-PLANT OPERATOR	4	3	3 SIX TO 12 MONTHS
		520.362-014	DRY-STARCH OPERATOR	3	2	3 TWO TO FOUR YEARS
		520.382-010	CISTERN-ROOM OPERATOR	3	2	3 THREE TO SIX MONTHS
		520.382-014	LIQUID-SUGAR MELTER	3	2	2 THREE TO SIX MONTHS
		520.485-010	FLOUR MIXER	2	2	2 UP TO 30 DAYS
		520.485-014	GRAIN MIXER	2	1	1 UP TO 30 DAYS
		520.485-018	MINCEMEAT MAKER	3	2	2 30 TO 90 DAYS
		520.485-022	REFINED-SIRUP OPERATOR	3	3	3 THREE TO SIX MONTHS
		520.485-026	SIRUP MAKER	3	2	3 THREE TO SIX MONTHS
		520.565-010	CHURNER	2	1	1 UP TO 30 DAYS
		520.585-010	BLENDER	1	1	1 UP TO 30 DAYS
		520.595-018	COOLER TENDER	2	1	1 THREE TO SIX MONTHS
		520.585-022	LIQUID-SUGAR FORTIFIER	2	2	2 THREE TO SIX MONTHS
		520.585-026	SAUCE MIXER	2	1	1 UP TO 30 DAYS
		520.662-010	NOODLE-PRESS OPERATOR	3	3	2 ONE TO TWO YEARS
		520.665-010	MINGLER OPERATOR	2	1	1 30 TO 90 DAYS
		520.665-018	STARCH-TREATING ASSISTANT	3	2	2 THREE TO SIX MONTHS
		520.682-010	BLENDING-PLANT OPERATOR	3	3	2 SIX TO 12 MONTHS
		520.682-018	EXTRUDER OPERATOR	3	2	2 SIX TO 12 MONTHS
		520.682-022	GUM-SCORING-MACHINE OPERATOR	3	2	1 SIX TO 12 MONTHS
		520.685-018	BLENDER-MACHINE OPERATOR	2	1	1 UP TO 30 DAYS
		520.685-022	BLENDER, SNUFF	2	1	1 UP TO 30 DAYS
		520.685-026	BLENDING-LINE ATTENDANT	2	1	1 30 TO 90 DAYS
		520.685-030	BLENDING-TANK TENDER	2	1	2 UP TO 30 DAYS
		520.685-034	BRINE-MIXER OPERATOR, AUTOMATIC	2	1	1 UP TO 30 DAYS
		520.685-054	CASING-FLUID TENDER	2	1	1 30 TO 90 DAYS
		520.685-070	CHURN OPERATOR, MARGARINE	2	2	2 UP TO 30 DAYS
		520.685-074	COCOA-POWDER-MIXER OPERATOR	3	2	2 THREE TO SIX MONTHS
		520.685-082	COOKER, CASING	2	1	1 30 TO 90 DAYS
		520.685-094	FEED BLENDER	2	1	1 UP TO 30 DAYS

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OCCUPATION: 7664 MIXING AND BLENDING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	I	
		520.685-098	FEED MIXER	2	2	2	UP TO 30 DAYS
		520.685-106	FLOUR BLENDER	2	1	1	30 TO 90 DAYS
		520.685-110	GREEN-COFFEE BLENDER	2	1	2	UP TO 30 DAYS
		520.685-118	KETTLE TENDER	2	1	1	UP TO 30 DAYS
		520.685-130	MASH GRINDER	2	2	2	UP TO 30 DAYS
		520.685-134	MILL FEEDER	1	1	1	UP TO 30 DAYS
		520.685-142	MIXER OPERATOR	2	1	1	UP TO 30 DAYS
		520.685-146	MIXER OPERATOR	2	2	1	30 TO 90 DAYS
		520.685-150	MIXER OPERATOR	2	2	1	30 TO 90 DAYS
		520.685-158	MIXER, CHILI POWDER	2	2	1	30 TO 90 DAYS
		520.685-162	MIXER, DRY-FOOD PRODUCTS	2	1	2	30 TO 90 DAYS
		520.685-166	MIXING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		520.685-170	MIXING-TANK OPERATOR	2	1	2	UP TO 30 DAYS
		520.685-194	RELISH BLENDER	2	1	1	30 TO 90 DAYS
		520.685-222	TUMBLER TENDER	1	1	1	UP TO 30 DAYS
		521.685-022	BATCH-TANK CONTROLLER	2	1	1	30 TO 90 DAYS
		522.382-038	VINEGAR MAKER	3	2	3	THREE TO SIX MONTHS
		522.662-010	RECEIVER, FERMENTING CELLARS	3	2	2	THREE TO SIX MONTHS
		522.685-010	BLENDING-MACHINE OPERATOR	3	2	2	30 TO 90 DAYS
		522.685-022	BRINE MAKER 2	2	2	1	THREE TO SIX MONTHS
		522.685-062	FERMENTER, WINE	3	2	3	THREE TO SIX MONTHS
		523.682-018	DEXIRINE MIXER	3	2	2	THREE TO SIX MONTHS
		524.685-010	BREADING MACHINE TENDER	1	1	1	UP TO 30 DAYS
		526.382-010	CONCHE OPERATOR	3	2	2	THREE TO SIX MONTHS
		529.382-010	BUTTERMAKER, CONTINUOUS CHURN	3	2	3	30 TO 90 DAYS
		529.462-010	SIRUP MIXER	3	2	3	SIX TO 12 MONTHS
		529.485-014	BLOW-UP OPERATOR	3	2	3	30 TO 90 DAYS
		529.682-014	CHEESEMAKER HELPER	3	2	2	ONE TO TWO YEARS
		529.682-034	WHIPPED-TOPPING FINISHER	3	2	2	SIX TO 12 MONTHS
		529.685-126	FLAVOR EXTRACTOR	2	1	1	30 TO 90 DAYS
		530.582-010	PULPER, SYNTHETIC SOIL BLOCKS	3	3	2	THREE TO SIX MONTHS
		530.665-010	BEATER-ENGINEER HELPER	2	2	2	UP TO 30 DAYS
		530.685-010	COATING-MIXER TENDER	2	2	2	UP TO 30 DAYS
		540.382-010	COMPOUNDER	3	3	3	TWO TO FOUR YEARS
		540.462-010	BLENDER	3	3	2	ONE TO TWO YEARS
		540.585-010	MIXER OPERATOR, CARBON PASTE	2	2	2	THREE TO SIX MONTHS
		549.665-010	ACETYLENE-CYLINDER-PACKING MIXER	2	2	2	UP TO 30 DAYS
		549.682-010	GREASE MAKER	3	2	3	SIX TO 12 MONTHS
		549.685-026	SCREENER-AND-BLENDER OPERATOR	2	2	2	UP TO 30 DAYS
		550.362-010	FROTHING-MACHINE OPERATOR	3	2	2	SIX TO 12 MONTHS
		550.382-010	COLOR MAKER	3	2	2	SIX TO 12 MONTHS
		550.382-014	COLOR MAKER	3	2	3	SIX TO 12 MONTHS

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7664 MIXING AND BLENDING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		550.382-018	MIXER OPERATOR	3	2	2	THREE TO SIX MONTHS
		550.382-022	MIXING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		550.382-030	ROOF-CEMENT-AND-PAINT MAKER	3	2	2	SIX TO 12 MONTHS
		550.485-010	CHEMICAL MIXER	3	2	2	ONE TO TWO YEARS
		550.485-014	MIXING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		550.485-018	PAINT MIXER, MACHINE	2	1	1	30 TO 90 DAYS
		550.485-022	POWDER BLENDER AND POURER	2	2	2	30 TO 90 DAYS
		550.485-026	PULVERIZING-AND-SIFTING OPERATOR	3	2	2	THREE TO SIX MONTHS
		550.564-010	METAL-BONDING CRIB ATTENDANT	3	2	2	THREE TO SIX MONTHS
		550.565-010	PRIMER-POWDER BLENDER, DRY	2	1	2	30 TO 90 DAYS
		550.582-010	PRIMER-POWDER BLENDER, WET	3	2	2	THREE TO SIX MONTHS
		550.582-014	WEIGHER-BULKER	3	2	2	SIX TO 12 MONTHS
		550.585-010	BINDER TECHNICIAN	3	2	2	30 TO 90 DAYS
		550.585-018	CHEMICAL MIXER	3	2	2	THREE TO SIX MONTHS
		550.585-022	COATING OPERATOR	3	1	2	THREE TO SIX MONTHS
		550.585-026	LIME-SLUDGE MIXER	2	1	1	30 TO 90 DAYS
		550.585-030	NITRATING-ACID MIXER	3	2	2	SIX TO 12 MONTHS
		550.585-034	PASTE MIXER	2	1	1	30 TO 90 DAYS
		550.585-038	THINNER	3	2	2	30 TO 90 DAYS
		550.585-042	TRACER-POWDER BLENDER	3	2	2	30 TO 90 DAYS
		550.585-046	WAX BLENDER	3	1	2	30 TO 90 DAYS
		550.662-010	BLEACH-LIQUOR MAKER	3	2	2	SIX TO 12 MONTHS
		550.665-010	BLENDER	3	2	2	THREE TO SIX MONTHS
		550.665-014	COMPOSITION MIXER	3	1	2	THREE TO SIX MONTHS
		550.665-018	FERTILIZER MIXER	2	1	1	UP TO 30 DAYS
		550.665-022	MORTAR OPERATOR	2	1	1	30 TO 90 DAYS
		550.682-010	SIZE MAKER	3	2	2	SIX TO 12 MONTHS
		550.682-014	TANNING-SOLUTION MAKER	3	1	2	SIX TO 12 MONTHS
		550.684-026	SILVER-SOLUTION MIXER	3	2	2	30 TO 90 DAYS
		550.685-010	BATCH MIXER	2	1	1	30 TO 90 DAYS
		550.685-014	BLENDER	2	1	1	UP TO 30 DAYS
		550.685-018	BRINE MAKER	3	2	2	30 TO 90 DAYS
		550.685-022	CD-MIXER	2	1	1	30 TO 90 DAYS
		550.685-026	CEMENT MIXER	2	1	2	30 TO 90 DAYS
		550.685-030	CHEMICAL PREPARER 1	3	3	3	THREE TO SIX MONTHS
		550.685-038	COLOR-PASTE MIXER	3	2	2	30 TO 90 DAYS
		550.685-042	COMPOUND FINISHER	2	1	1	30 TO 90 DAYS
		550.685-046	COMPOUNDER	3	2	2	THREE TO SIX MONTHS
		550.685-050	COMPOUNDEP	2	1	1	30 TO 90 DAYS
		550.685-054	CRUTCHER	3	2	2	THREE TO SIX MONTHS
		550.685-058	DUSTLESS OPERATOR	3	1	2	30 TO 90 DAYS
		550.685-062	GLUE MIXER	3	2	2	30 TO 90 DAYS

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OCCUPATION: 7664 MIXING AND BLENDING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		550.685-066	GROUND MIXER	2 1 1	UP TO 30 DAYS
		550.685-070	INSECTICIDE MIXER	2 1 1	UP TO 30 DAYS
		550.685-074	MIXER	3 2 1	30 TO 90 DAYS
		550.685-078	MIXER	3 1 2	30 TO 90 DAYS
		550.685-082	MIXER OPERATOR	2 1 1	30 TO 90 DAYS
		550.685-086	MIXER, FOAM RUBBER	2 1 1	UP TO 30 DAYS
		550.685-090	MIXING-MACHINE TENDER	3 2 2	THREE TO SIX MONTHS
		550.685-094	PEARL-GLUE OPERATOR	2 1 1	30 TO 90 DAYS
		550.685-098	POWERHOUSE HELPER	2 1 1	30 TO 90 DAYS
		550.685-102	RUBBER-MILL TENDER	2 2 2	30 TO 90 DAYS
		550.685-106	SEASONING MIXER	2 2 2	30 TO 90 DAYS
		550.685-110	SWEEPING-COMPOUND BLENDER	2 1 2	30 TO 90 DAYS
		550.685-114	TETRYL-DISSOLVER OPERATOR	3 1 2	30 TO 90 DAYS
		550.685-118	TUMBLER OPERATOR	2 1 1	UP TO 30 DAYS
		550.685-122	WEIGHER AND MIXER	2 1 1	THREE TO SIX MONTHS
		550.685-126	WFT MIXER	2 1 1	UP TO 30 DAYS
		551.465-010	PURIFICATION-OPERATOR HELPER	3 2 2	THREE TO SIX MONTHS
		553.682-014	CURER, FOAM RUBBER	3 2 2	THREE TO SIX MONTHS
		558.382-046	NITRATOR OPERATOR	3 2 2	ONE TO TWO YEARS
		559.382-014	CATALYST OPERATOR, GASOLINE	3 3 2	SIX TO 12 MONTHS
		559.382-026	GRANULATOR-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.382-034	MAKE-UP OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.382-054	SOAP MAKER	3 2 3	TWO TO FOUR YEARS
		559.582-014	SPECIALTIES OPERATOR	3 3 2	SIX TO 12 MONTHS
		559.664-010	NITROGLYCERIN DISTRIBUTOR	2 1 1	UP TO 30 DAYS
		559.665-026	MIXER	2 2 2	THREE TO SIX MONTHS
		559.685-034	CD-STORAGE-AND-MATERIALS MAKE-UP HE	2 2 2	THREE TO SIX MONTHS
		559.685-154	RESTRICTIVE-PREPARATION OPERATOR	2 2 1	30 TO 90 DAYS
		570.362-010	BULK-STATION OPERATOR	3 2 2	SIX TO 12 MONTHS
		570.382-014	PLASTER MIXER, MACHINE	3 2 1	SIX TO 12 MONTHS
		570.382-018	SUPPLY CONTROLLER	4 2 2	THREE TO SIX MONTHS
		570.485-010	ABRASIVE MIXER	3 2 1	THREE TO SIX MONTHS
		570.685-034	LIME SLAKER	2 2 1	THREE TO SIX MONTHS
		570.685-050	MIXER	2 1 1	UP TO 30 DAYS
		570.685-054	MIXER	2 1 1	30 TO 90 DAYS
		570.685-058	MIXER OPERATOR	1 1 1	UP TO 30 DAYS
		570.685-062	MIXER TENDER, BOARD	3 2 1	THREE TO SIX MONTHS
		570.685-066	MOLDING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		570.685-070	MUD-MIXER OPERATOR	2 1 1	UP TO 30 DAYS
		570.685-078	REFRACTORY MIXER	2 1 1	30 TO 90 DAYS
		570.685-082	ROUGE MIXER	1 1 1	UP TO 30 DAYS
		570.685-090	SILICA-SPRAY MIXLR	2 1 1	30 TO 90 DAYS

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OCCUPATION: 7664 MIXING AND BLENDING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		570.685-094	SLATE MIXER	2	1	1	UP TO 30 DAYS
		589.464-010	COLOR MIXER	2	2	2	30 TO 90 DAYS
		589.685-050	FEATHER MIXER	2	1	1	UP TO 30 DAYS
		590.662-018	MIXING-ROLL OPERATOR	3	2	3	THREE TO SIX MONTHS
		727.484-010	ACID ADJUSTER	2	2	2	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	599.685-014	BRAN MIXER	2	1	1	UP TO 30 DAYS
20.0402	BAKING	520.385-010	MIXER, WHIPPED TOPPING	2	2	2	30 TO 90 DAYS
		520.462-010	DOUGH-MIXER OPERATOR	3	1	3	SIX TO 12 MONTHS
		520.482-010	CRACKER-AND-COOKY-MACHINE OPERATOR	3	2	2	SIX TO 12 MONTHS
		520.582-010	DOUGH MIXER	3	2	3	SIX TO 12 MONTHS
		520.585-014	BROTH MIXER	3	2	2	THREE TO SIX MONTHS
		520.665-014	MIXING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		520.685-014	BATTER MIXER	2	2	2	UP TO 30 DAYS
		520.685-090	DOUGH-BRAKE-MACHINE OPERATOR	2	1	1	30 TO 90 DAYS
		520.685-114	ICING MIXER	3	1	2	30 TO 90 DAYS
		520.685-226	UNLEAVENED-DOUGH MIXER	2	1	1	UP TO 30 DAYS
20.0406	FOOD SERVICE	520.582-010	DOUGH MIXER	3	2	3	SIX TO 12 MONTHS
		520.682-030	SPINNER	3	2	2	ONE TO TWO YEARS
		520.685-010	BATTER MIXER	3	2	2	THREE TO SIX MONTHS
		520.685-046	CANDY PULLER	3	2	2	SIX TO 12 MONTHS
		520.685-050	CANDY-MAKER HELPER	3	2	1	THREE TO SIX MONTHS
		520.685-122	LOZENGE-DOUGH MIXER	2	2	2	THREE TO SIX MONTHS
		520.685-138	MIXER	2	2	1	30 TO 90 DAYS
		520.685-154	MIXER-AND-BLENDER	3	2	2	THREE TO SIX MONTHS
		520.685-226	UNLEAVENED-DOUGH MIXER	2	1	1	UP TO 30 DAYS
		523.685-022	CHOCOLATE TEMPERER	2	1	1	30 TO 90 DAYS
46.0402	CONCRETE PLACING AND FINISHING	570.685-010	AUXILIARY-EQUIPMENT TENDER	2	2	1	30 TO 90 DAYS
		579.682-010	MIXER, WET POUR	3	2	1	THREE TO SIX MONTHS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	930.685-010	MUD-PLANT OPERATOR	3	2	2	THREE TO SIX MONTHS
48.0403	SLAUGHTERING AND BUTCHERING	520.685-066	CHOPPING-MACHINE OPERATOR	2	1	1	THREE TO SIX MONTHS
		520.685-202	SAUSAGE MAKER	2	1	2	UP TO 30 DAYS
		520.685-206	SAUSAGE MIXER	2	1	2	30 TO 90 DAYS
		522.485-010	PICKLING SOLUTION MAKER	2	2	2	30 TO 90 DAYS
48.0502	FOUNDRY WORK	510.465-010	CARBIDE-POWDER PROCESSOR	3	2	2	SIX TO 12 MONTHS
		510.685-010	DUST MIXER	3	2	1	THREE TO SIX MONTHS

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OCCUPATION: 7664 MIXING AND BLENDING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
		510.685-014	MIX-HOUSE TENDER	2 1 1	30 TO 90 DAYS
		510.685-018	MIXER	2 2 2	30 TO 90 DAYS
		510.685-022	PUG-MILL OPERATOR	3 1 2	THREE TO SIX MONTHS
		510.685-026	SINTER-MACHINE OPERATOR	3 1 1	SIX TO 12 MONTHS
		510.685-030	SLIME-PLANT OPERATOR 1	3 2 1	ONE TO TWO YEARS
		514.685-022	LIME MIXER TENDER	2 1 1	30 TO 90 DAYS
		519.685-026	MUD-MILL TENDER	2 1 2	30 TO 90 DAYS
		570.683-014	SAND-CUTTER OPERATOR	2 1 1	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	570.382-010	MILL OPERATOR	3 2 1	SIX TO 12 MONTHS
		570.482-010	CLAY MAKER	3 2 2	SIX TO 12 MONTHS
		570.685-014	CLAY MIXER	2 1 1	UP TO 30 DAYS
		570.685-074	PUG-MILL-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		579.685-014	FRIT-MIXER-AND-BURNER	2 2 1	THREE TO SIX MONTHS
		773.487-010	CLAY-STAIN MIXER	3 2 2	30 TO 90 DAYS
48.0604	PLASTICS	550.382-026	OPERATOR, CATALYST CONCENTRATION	3 2 2	SIX TO 12 MONTHS
		550.382-034	SOLUTIONS OPERATOR	3 2 2	SIX TO 12 MONTHS
		550.585-014	CELLOPHANE-BATH MIXER	3 2 2	30 TO 90 DAYS
		550.685-034	CHURN TENDER	3 2 2	30 TO 90 DAYS
		550.685-130	MATERIAL MIXER	2 2 2	UP TO 30 DAYS
		559.362-014	FINISHING-AREA OPERATOR	3 2 2	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7665

COOLING AND FREEZING EQUIPMENT OPERATORS AND TENDERS

These workers operate or tend cooling equipment used to preserve or process products such as foods, blood plasma, or glue. They may also start equipment such as water pumps, agitators, ice feeders, and conveyors. They read gauges and thermometers to check and control the temperature in chilling vats, coolers, or freezers. They may keep records of temperature and other readings. They may measure and mix ingredients to prepare products to be cooled or frozen.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	523.585-018	CRYSTALLIZER OPERATOR	2 2 2	30 TO 90 DAYS
		523.685-038	COOLER TENDER	2 2 1	UP TO 30 DAYS
		523.685-042	COOLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		523.685-046	COOLING-PAN TENDER	2 1 1	UP TO 30 DAYS
		523.685-050	CRYSTALLIZER OPERATOR	2 2 2	30 TO 90 DAYS
		523.685-082	FREEZER TUNNEL OPERATOR	3 1 2	30 TO 90 DAYS
		523.685-102	ICE MAKER	2 1 2	30 TO 90 DAYS
		529.482-010	FREEZER OPERATOR	3 2 2	SIX TO 12 MONTHS
		529.482-014	NOVELTY MAKER 1	3 2 2	THREE TO SIX MONTHS
		529.482-018	NOVELTY MAKER 2	3 2 2	SIX TO 12 MONTHS
		529.485-010	BARREL FILLER	2 2 1	UP TO 30 DAYS
		551.685-042	CHILLER OPERATOR	2 1 2	30 TO 90 DAYS
		556.685-054	PARADICHLOROBENZENE TENDER	2 1 1	UP TO 30 DAYS
		559.685-090	FREEZING-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		969.685-010	SNOWMAKER	2 1 1	UP TO 30 DAYS
20.0406	FOOD SERVICE	523.685-010	BATCH FREEZER	2 1 1	UP TO 30 DAYS
47.0202	COOLING AND REFRIGERATION	827.485-010	GAS CHARGER	2 2 2	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	523.585-014	CHILLER TENDER	2 2 2	30 TO 90 DAYS
		523.685-018	CHILLING-HOOD OPERATOR	1 1 1	UP TO 30 DAYS
		529.685-250	VOTATOR-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7666 SEPARATING AND FILTERING MACHINE OPERATORS AND TEND (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		521.685-106	DETHISTLER OPERATOR	3	1	2	30 TO 90 DAYS
		521.685-114	EGG-BREAKING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		521.685-126	FILTER OPERATOR	2	1	1	30 TO 90 DAYS
		521.685-130	FILTER-PRESS TENDER	2	1	1	UP TO 30 DAYS
		521.685-134	FILTER-TANK-TENDER HELPER, HEAD	2	1	1	UP TO 30 DAYS
		521.685-138	FILTERING-MACHINE TENDER	2	2	1	30 TO 90 DAYS
		521.685-142	FINISHER OPERATOR	2	1	1	UP TO 30 DAYS
		521.685-150	GLUTEN-SETTLING TENDER	1	1	1	UP TO 30 DAYS
		521.685-154	GRADER TENDER	2	1	1	30 TO 90 DAYS
		521.685-174	HONEY EXTRACTOR	1	1	1	UP TO 30 DAYS
		521.685-178	HOP-STRAINER	2	1	1	UP TO 30 DAYS
		521.685-182	HOPPER ATTENDANT	2	1	1	UP TO 30 DAYS
		521.685-190	ION EXCHANGE OPERATOR	2	1	1	UP TO 30 DAYS
		521.685-198	LINTER TENDER	2	1	1	30 TO 90 DAYS
		521.685-206	LYE-PEEL OPERATOR	1	1	1	UP TO 30 DAYS
		521.685-218	MEAT-GRADING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		521.685-230	MONITOR-AND-STORAGE-BIN TENDER	1	1	1	UP TO 30 DAYS
		521.685-238	NUT-SORTER OPERATOR	2	1	1	30 TO 90 DAYS
		521.685-246	PEANUT BLANCHER	1	1	1	UP TO 30 DAYS
		521.685-250	POTATO-PEELING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		521.685-254	PROCESSOR, GRAIN	2	1	1	UP TO 30 DAYS
		521.685-262	PULPER TENDER	1	1	1	UP TO 30 DAYS
		521.685-270	RIDDLER OPERATOR	1	1	1	UP TO 30 DAYS
		521.685-274	ROUGH-RICE TENDER	2	1	1	30 TO 90 DAYS
		521.685-282	SCREEN-ROOM OPERATOR	2	1	1	30 TO 90 DAYS
		521.685-286	SEPARATOR OPERATOR, SHELLFISH MEATS	2	1	1	UP TO 30 DAYS
		521.685-290	SEPARATOR TENDER	2	1	1	30 TO 90 DAYS
		521.685-294	SHELLER 2	1	1	1	UP TO 30 DAYS
		521.685-318	SORTING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		521.685-322	SPICE CLEANER	2	1	1	UP TO 30 DAYS
		521.685-334	STEMMER, MACHINE	1	1	1	UP TO 30 DAYS
		521.685-362	THRESHING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		521.685-370	WINERY WORKER	3	1	1	30 TO 90 DAYS
		521.685-374	WINTERIZER	2	1	1	UP TO 30 DAYS
		522.382-018	LIQUOR BLENDER	4	3	3	ONE TO TWO YEARS
		522.665-010	FILTER TENDER	3	1	2	THREE TO SIX MONTHS
		529.682-010	CENTRIFUGE OPERATOR	3	2	2	THREE TO SIX MONTHS
		529.685-114	FILTER TENDER, JELLY	3	2	1	30 TO 90 DAYS
		529.685-154	LABORER, STARCH FACTORY	2	1	1	30 TO 90 DAYS
		529.687-170	PRESS PULLER	1	1	1	UP TO 30 DAYS
		533.685-022	SCREEN TENDER	3	2	1	THREE TO SIX MONTHS
		533.685-026	SCREEN TENDER, CHIPS	2	1	1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7666

SEPARATING AND FILTERING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to separate, filter, or refine materials. They work in a variety of industries. They may tend machines that separate waste materials from ore, refine oil used in making paint, or filter spices to remove mold and insects. They hoist, pump, or dump materials into the machines. They may read meters and collect samples of materials and keep processing records. They may help set up, clean, and repair the equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R	M	I	TRAINING TIME
CODE	TITLE	CODE	TITLE					
00.0000	NO CIP ASSIGNED	511.562-010	CLASSIFIER OPERATOR	3	2	2		SIX TO 12 MONTHS
		511.585-010	HYDRATE-CONTROL TENDER	3	1	2		THREE TO SIX MONTHS
		511.685-010	AMALGAMATOR	3	1	1		30 TO 90 DAYS
		511.685-014	CLASSIFIER TENDER	3	1	2		THREE TO SIX MONTHS
		511.685-026	FLOTATION TENDER	3	1	1		THREE TO SIX MONTHS
		511.685-050	SCREEN OPERATOR	3	1	2		THREE TO SIX MONTHS
		511.685-062	TABLE TENDER	3	1	1		THREE TO SIX MONTHS
		520.485-030	STARCHMAKER	3	2	3		30 TO 90 DAYS
		521.365-010	CHAR-FILTER OPERATOR	3	2	2		SIX TO 12 MONTHS
		521.382-010	EVAPORATOR OPERATOR	3	2	2		SIX TO 12 MONTHS
		521.382-014	SEPARATOR OPERATOR	2	2	2		THREE TO SIX MONTHS
		521.385-010	CRACKING-AND-FANNING-MACHINE OPERAT	2	1	1		30 TO 90 DAYS
		521.565-010	LIQUOR-BRIDGE OPERATOR	2	1	1		30 TO 90 DAYS
		521.565-018	SOFT-SUGAR OPERATOR, HEAD	3	2	3		THREE TO SIX MONTHS
		521.582-010	SILICA-FILTER OPERATOR	3	1	1		THREE TO SIX MONTHS
		521.585-010	CENTRIFUGAL-STATION OPERATOR, AUTOM	3	2	2		SIX TO 12 MONTHS
		521.665-010	CHAR-FILTER-TANK TENDER, HEAD	3	2	2		THREE TO SIX MONTHS
		521.665-014	EXTRACTOR-MACHINE OPERATOR	1	1	1		UP TO 30 DAYS
		521.665-022	RICE CLEANING MACHINE TENDER	3	1	1		30 TO 90 DAYS
		521.665-026	SIEVE-GRADER TENDER	2	1	1		UP TO 30 DAYS
		521.682-010	CENTRIFUGAL OPERATOR	3	2	2		30 TO 90 DAYS
		521.682-014	COCOA-PRESS OPERATOR	3	2	2		THREE TO SIX MONTHS
		521.682-018	FILTER OPERATOR	3	2	2		SIX TO 12 MONTHS
		521.685-010	ALMOND HULLER	2	1	1		UP TO 30 DAYS
		521.685-014	ALMOND-BLANCHER OPERATOR	2	1	1		UP TO 30 DAYS
		521.685-026	BLEACHER, LARD	2	1	1		UP TO 30 DAYS
		521.685-030	BOLTER	2	1	1		30 TO 90 DAYS
		521.685-038	BRINE-TANK-SEPARATOR OPERATOR	1	1	1		UP TO 30 DAYS
		521.685-042	CENTRIFUGE OPERATOR	2	2	2		UP TO 30 DAYS
		521.685-046	CENTRIFUGE OPERATOR	2	2	2		30 TO 90 DAYS
		521.685-050	CENTRIFUGE OPERATOR	2	2	1		30 TO 90 DAYS
		521.685-062	CLEAN-RICE GRADER AND REEL TENDER	2	1	1		30 TO 90 DAYS
		521.685-066	COCOA-BEAN CLEANER	2	1	1		UP TO 30 DAYS
		521.685-070	COCOA-BUTTER-FILTER OPERATOR	2	1	1		UP TO 30 DAYS

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OCCUPATION: 7666 SEPARATING AND FILTERING MACHINE OPERATORS AND TEND (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		541.362-010	DESULFURIZER OPERATOR	4	3 2	ONE TO TWO YEARS
		541.362-014	PUMP OPERATOR, BYPRODUCTS	3	2 2	SIX TO 12 MONTHS
		541.382-010	COAL WASHER	3	2 2	SIX TO 12 MONTHS
		541.382-014	CRUDE-OIL TREATER	3	3 3	SIX TO 12 MONTHS
		541.585-010	CENTRIFUGE-SEPARATOR TENDER	2	2 2	THREE TO SIX MONTHS
		541.665-010	SHAKER TENDER	2	2 1	30 TO 90 DAYS
		541.682-010	PARAFFIN-PLANT OPERATOR	3	2 2	SIX TO 12 MONTHS
		541.685-010	HEAVY-MEDIA OPERATOR	2	1 1	30 TO 90 DAYS
		541.685-014	LEAD RECOVERER, CONTINUOUS-NAPHTHA-	3	2 2	THREE TO SIX MONTHS
		543.682-022	PARAFFIN-PLANT-SWEATER OPERATOR	3	2 2	THREE TO SIX MONTHS
		551.365-010	STRAINER TENDER	2	1 2	THREE TO SIX MONTHS
		551.382-010	ABSORPTION OPERATOR	3	2 2	SIX TO 12 MONTHS
		551.562-010	FILTRATION OPERATOR, POLYETHYLENE C	3	2 2	SIX TO 12 MONTHS
		551.585-010	FILTER-TANK OPERATOR	2	1 1	UP TO 30 DAYS
		551.685-018	BONE-COOKING OPERATOR	3	1 2	30 TO 90 DAYS
		551.685-034	CENTRIFUGE OPERATOR	2	1 1	UP TO 30 DAYS
		551.685-074	FILTER HELPER	2	1 1	UP TO 30 DAYS
		551.685-078	FILTER OPERATOR	2	1 1	UP TO 30 DAYS
		551.685-082	FILTER-PRESS OPERATOR	2	1 1	30 TO 90 DAYS
		551.685-106	POACHER OPERATOR	3	1 2	THREE TO SIX MONTHS
		551.685-130	SCREEN OPERATOR	2	1 1	30 TO 90 DAYS
		551.685-146	TETRYL-SCREEN OPERATOR	2	1 2	UP TO 30 DAYS
		551.685-158	WAX BLEACHER	3	1 2	30 TO 90 DAYS
		552.685-030	STILL-OPERATOR HELPER	3	2 2	30 TO 90 DAYS
		559.382-022	GLUE MAKER, BONE	3	2 2	SIX TO 12 MONTHS
		559.382-030	LINSEED-OIL REFINER	3	2 2	THREE TO SIX MONTHS
		559.682-026	FLUSHER	3	2 2	SIX TO 12 MONTHS
		559.682-038	RIPENING-ROOM ATTENDANT	3	2 2	THREE TO SIX MONTHS
		559.685-166	SEPARATOR OPERATOR	2	2 1	UP TO 30 DAYS
		559.686-034	OPENER	1	1 1	UP TO 30 DAYS
		579.685-046	ROUGE SIFTER AND MILLER	1	1 1	UP TO 30 DAYS
		589.685-054	FEATHER SEPARATOR	2	1 1	30 TO 90 DAYS
		599.665-010	SEED-CLEANER OPERATOR	2	1 1	UP TO 30 DAYS
		599.685-042	FILTER-PRESS TENDER	2	1 2	30 TO 90 DAYS
		599.685-082	SCREENER OPERATOR	2	1 2	UP TO 30 DAYS
		692.685-166	SEPARATOR OPERATOR	2	1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	599.685-018	CENTRIFUGE OPERATOR, PLASMA PROCESS	2	2 2	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	525.685-022	HIDE PULLER	2	1 1	UP TO 30 DAYS
		525.685-030	SKIN-PFELING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	511.382-010	TUNGSTEN REFINER	3	2 2	SIX TO 12 MONTHS

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OCCUPATION: 7666 SEPARATING AND FILTERING MACHINE OPERATORS AND TEND (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			
CODE	TITLE	CODE	TITLE	R	M	L	TRAINING TIME
		511.385-010	ZINC-CHLORIDE OPERATOR	3	2	2	THREE TO SIX MONTHS
		511.485-014	THICKENER OPERATOR	3	1	2	THREE TO SIX MONTHS
		511.565-010	DEWATERER OPERATOR	3	1	2	SIX TO 12 MONTHS
		511.582-010	LEACHER	3	2	2	SIX TO 12 MONTHS
48.0691	INDUSTRIAL CERAMICS MANUFACTURING	571.685-014	GLAZE HANDLER	2	1	1	THREE TO SIX MONTHS
49.0204	MINING EQUIPMENT OPERATION	934.685-010	CONE OPERATOR	2	1	1	30 TO 90 DAYS
		934.685-018	SHAKER TENDER	2	2	1	30 TO 90 DAYS
		934.685-022	SPIRAL RUNNER	2	1	1	THREE TO SIX MONTHS
		939.685-014	WASHER-AND-CRUSHER TENDER	2	2	2	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7667

COMPRESSING AND COMPACTING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to press together or compact materials or objects. They work in a variety of industries. They may pack sand in molds, press meats into shape for packing, or press fruits to extract juice. They may also compress materials to form or shape products, such as malted milk tablets or plugs of chewing tobacco. They install and adjust machines, move controls, load and unload materials, and watch machine operations. They check finished products for defects, and may collect samples for lab tests.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	520.687-050	PLUG SHAPER, HAND	1	1	1	30 10 90 DAYS
		521.665-018	FILTER-PRESS TENDER, HEAD	2	1	1	30 10 90 DAYS
		521.685-118	EXTRACTOR OPERATOR	2	1	2	30 10 90 DAYS
		521.685-146	FRUIT-PRESS OPERATOR	1	1	1	UP TO 30 DAYS
		521.685-242	OILSEED-MEAT PRESSER	1	1	1	UP TO 30 DAYS
		521.685-258	PULP-PRESS TENDER	2	1	1	30 10 90 DAYS
		521.685-330	STEM-ROLLER-OR-CRUSHER OPERATOR	1	1	1	UP TO 30 DAYS
		521.685-350	SUGAR PRESSER	1	1	1	UP TO 30 DAYS
		529.685-238	TABLET MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		529.686-066	PRESS MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		532.685-026	PULP-PRESS TENDER	2	1	2	30 10 90 DAYS
		534.685-010	DAMPENER OPERATOR	2	2	1	UP TO 30 DAYS
		535.685-010	PLATE WORKER	2	2	2	UP TO 30 DAYS
		539.565-010	VULCANIZED-FIBER-UNIT OPERATOR	3	3	3	SIX TO 12 MONTHS
		539.685-010	COATER OPERATOR, INSULATION BOARD	2	2	1	UP TO 30 DAYS
		551.685-114	PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		551.685-118	PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		551.685-138	STEEPING-PRESS TENDER	2	1	2	30 10 90 DAYS
		553.665-010	BELT-PRESS OPERATOR 2	2	1	1	30 10 90 DAYS
		553.665-046	STEAM-PRESS TENDER 1	2	1	1	THREE TO SIX MONTHS
		553.665-050	STEAM-PRESS TENDER 2	2	1	1	30 10 90 DAYS
		553.682-026	V-BELT CURER	3	2	2	THREE TO SIX MONTHS
		554.665-014	LAMINATING-MACHINE TENDER	2	1	2	UP TO 30 DAYS
		556.582-010	PLATE MOLDER	3	2	2	THREE TO SIX MONTHS
		556.685-010	AIR-BAG CURER	2	1	1	UP TO 30 DAYS
		556.685-014	BLOCK-PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		556.685-018	BOWLING-BALL MOLDER	2	1	1	30 10 90 DAYS
		556.685-026	COSMETICS PRESSER	2	1	1	30 10 90 DAYS
		556.685-042	MATTING-PRESS TENDER	2	1	1	UP TO 30 DAYS
		556.685-046	MOLDER, FOAM RUBBER	2	1	1	30 10 90 DAYS
		556.685-070	RECORD-PRESS TENDER	2	1	1	30 10 90 DAYS
		556.685-074	SLUG-PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		556.685-078	STAMPER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 7667 COMPRESSING AND COMPACTING MACHINE OPERATORS AND TE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		559.665-030	PRESS OPERATOR	2	2	1	30 TO 90 DAYS
		559.685-038	COMPRESSOR OPERATOR	2	1	1	UP TO 30 DAYS
		559.685-150	REBRANDER	2	1	1	UP TO 30 DAYS
		563.685-010	BARK-PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		575.685-010	ABRASIVE-WHEEL MOLDER	3	2	1	THREE TO SIX MONTHS
		575.685-042	HOT-PRESS OPERATOR	2	1	1	30 TO 90 DAYS
		575.685-070	PRESS OPERATOR	2	1	1	30 TO 90 DAYS
		590.665-014	PRESS-MACHINE OPERATOR	2	2	2	UP TO 30 DAYS
		690.685-258	LAMINATOR 1	2	1	1	UP TO 30 DAYS
		690.685-286	MAT PUNCHER	2	1	2	UP TO 30 DAYS
		690.685-318	PRESSER	2	1	1	UP TO 30 DAYS
		692.685-030	BROOM BUNDLER	2	1	2	UP TO 30 DAYS
		692.635-086	FOILING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		694.685-038	PRESS TENDER, PYROTECHNICS	2	1	2	UP TO 30 DAYS
		699.685-038	FILLING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		709.685-014	HOT BOX OPERATOR	2	1	2	UP TO 30 DAYS
		709.685-018	ROLLER, GOLD LEAF	2	1	2	30 TO 90 DAYS
		752.684-042	RUBBER-TUBING SPLICLR	2	1	2	UP TO 30 DAYS
		752.685-010	SECTIONAL-BFLT-MOLD ASSEMBLER	2	1	1	30 TO 90 DAYS
		777.684-010	FORM MAKER, PLASTER	3	2	2	THREE TO SIX MONTHS
		920.685-010	BALING-MACHINE TENDER	2	1	1	UP TO 30 DAYS
47.0407	SPORTING GOODS-EQUIPMENT REPAIR	732.687-070	SOFTBALL CORE MOLDER	2	1	1	UP TO 30 DAYS
48.0202	BOOKBINDING	977.684-018	PRESSER	3	1	1	THREE TO SIX MONTHS
48.0304	SHOE AND BOOT REPAIR	690.685-294	MOLDER, LABELS	2	1	1	UP TO 30 DAYS
		690.685-466	VULCANIZING-PRESS OPERATOR	2	1	1	30 TO 90 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	520.685-182	PRESS OPERATOR, MEAT	1	1	1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	518.683-010	SAND-SLINGER OPERATOR	2	1	1	30 TO 90 DAYS
48.0604	PLASTICS	551.685-046	DEHYDRATING-PRESS OPERATOR	2	1	2	UP TO 30 DAYS
		554.685-018	COMBINING-MACHINE OPERATOR	3	1	1	THREE TO SIX MONTHS
49.0203	MATERIAL HANDLING	929.685-010	CRATE OPENER	2	1	1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7668

BOILER OPERATORS AND TENDERS (LOW PRESSURE)

These workers control boilers and other equipment used to heat buildings and to provide power for tools and equipment. They operate boilers, heat pumps, compressors, and fans. They push buttons and open valves to start and control the equipment. They may light oil or gas burners. They watch temperature and pressure gauges and adjust fuel supply and other controls as necessary. They also oil and adjust equipment, replace gauge glasses, and keep the work area and equipment clean.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	553.685-066	FIRER, RETORT	2 1 1	30 TO 90 DAYS
47.0203	HEATING AND AIR CONDITIONING	950.685-014	BOILER-ROOM HELPER	2 2 2	THREE TO SIX MONTHS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	950.685-010	AIR-COMPRESSOR OPERATOR	3 2 2	SIX TO 12 MONTHS
		950.685-014	BOILER-ROOM HELPER	2 2 2	THREE TO SIX MONTHS
		951.685-014	FIRER, LOW PRESSURE	2 2 2	SIX TO 12 MONTHS
		951.685-018	FIRER, MARINE	3 3 3	SIX TO 12 MONTHS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7669

COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to coat, paint, or spray objects. They work in a variety of industries. For example, they may coat candy with syrup, coat paper with sizing solutions, or paint airplanes or cars. They weigh, measure, and mix ingredients. They install and adjust machine units, fill machine units with solutions, and load articles in the machines to be coated or painted. They watch the machines operate and adjust controls as necessary. They also check finished articles for defects and may keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	524.382-010	COATING-MACHINE OPERATOR	3 2 2	ONE TO TWO YEARS
		524.685-014	CHEESE SPRAYER	1 1 1	UP TO 30 DAYS
		524.685-018	COATING OPERATOR	2 1 1	30 TO 90 DAYS
		524.685-022	CRACKER SPRAYER	1 1 1	UP TO 30 DAYS
		524.685-026	ENROBING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		534.482-010	WAXING-MACHINE OPERATOR	3 3 2	SIX TO 12 MONTHS
		534.582-010	PAPER-COATING-MACHINE OPERATOR	3 3 2	SIX TO 12 MONTHS
		534.682-010	AIR-DRIER-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		534.682-014	CARBON-COATER-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		534.682-018	COATING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		534.682-022	COATING-MACHINE OPERATOR, HARDBOARD	3 2 2	SIX TO 12 MONTHS
		534.682-038	SUPERCALENDER OPERATOR	3 2 2	SIX TO 12 MONTHS
		534.685-022	PAPER COATER	2 1 1	30 TO 90 DAYS
		534.685-026	PARAFFIN-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		534.685-030	VARNISHING-MACHINE OPERATOR	2 2 1	UP TO 30 DAYS
		539.482-010	CALENDER OPERATOR, INSULATION BOARD	3 2 1	THREE TO SIX MONTHS
		554.362-010	CALENDER OPERATOR	3 2 2	THREE TO SIX MONTHS
		554.382-010	COATER	3 2 2	SIX TO 12 MONTHS
		554.384-010	DYER	3 2 2	30 TO 90 DAYS
		554.485-010	BUCKLE-STRAP-DRUM OPERATOR	2 1 1	UP TO 30 DAYS
		554.585-010	CATHODE MAKER	3 2 2	THREE TO SIX MONTHS
		554.662-010	CALENDER OPERATOR, FOUR-ROLL	3 2 2	SIX TO 12 MONTHS
		554.685-026	SIZING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		559.685-170	SPREADING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		561.585-010	STAIN APPLICATOR	2 2 2	UP TO 30 DAYS
		574.484-010	OPTICAL-GLASS SILVERER	3 1 1	THREE TO SIX MONTHS
		574.682-010	FIBERGLASS-MACHINE OPERATOR	3 2 1	THREE TO SIX MONTHS
		574.684-014	SILVERER	3 1 1	30 TO 90 DAYS
		574.685-010	COATER, BRAKE LININGS	2 1 2	UP TO 30 DAYS
		574.685-014	PAINT-SPRAY TENDER	3 2 1	THREE TO SIX MONTHS
		584.685-038	LATEXER 1	2 1 1	30 TO 90 DAYS
		584.685-050	WAX-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		590.685-014	COATING-MACHINE OPERATOR	3 2 3	THREE TO SIX MONTHS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7669 COATING, PAINTING, AND SPRAYING MACHINE OPERATORS A (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		590.685-022	DIPPER	2	1 2	30 TO 90 DAYS
		590.685-054	WAD IMPREGNATOR	2	1 2	UP TO 30 DAYS
		599.685-026	DIPPER	2	1 1	UP TO 30 DAYS
		599.685-030	DIPPER AND BAKER	2	1 1	UP TO 30 DAYS
		599.685-046	IMPREGNATING-TANK OPERATOR	3	2 2	THREE TO SIX MONTHS
		599.685-094	SPRAYER, MACHINE	2	1 2	UP TO 30 DAYS
		599.685-126	SEED PELLETTER	2	1 2	UP TO 30 DAYS
		690.682-054	ORNAMENTAL-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		692.685-054	COATING-MACHINE OPERATOR	2	1 2	UP TO 30 DAYS
		692.685-142	RIBBON INKER	2	1 2	UP TO 30 DAYS
		692.685-162	SEALING-MACHINE OPERATOR	2	1 2	30 TO 90 DAYS
		692.685-210	TAPE COATER	1	1 1	UP TO 30 DAYS
		733.685-030	TIP BANDER	2	1 1	UP TO 30 DAYS
		741.685-010	SPRAY-PAINTING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		769.685-010	PANEL EDGE SEALER	2	1 1	UP TO 30 DAYS
20.0402	BAKING	524.382-014	ENROBING-MACHINE OPERATOR	3	1 2	ONE TO TWO YEARS
		524.682-010	DEPOSITING-MACHINE OPERATOR	3	1 2	THREE TO SIX MONTHS
		524.685-034	ICFR, MACHINE	2	1 1	30 TO 90 DAYS
20.0406	FOOD SERVICE	524.382-014	ENROBING-MACHINE OPERATOR	3	1 2	ONE TO TWO YEARS
		524.665-010	SANDING-MACHINE OPERATOR	1	1 1	UP TO 30 DAYS
46.0402	CONCRETE PLACING AND FINISHING	575.665-018	SHOT-COAT TENDER	2	1 1	UP TO 30 DAYS
46.0408	PAINTING AND DECORATING	599.685-066	PAINT-LINE OPERATOR	2	1 2	30 TO 90 DAYS
		599.685-070	PAINTER, TUMBLING BARREL	3	2 2	30 TO 90 DAYS
		599.685-074	PAINTING-MACHINE OPERATOR	2	1 2	30 TO 90 DAYS
47.0105	INDUSTRIAL ELECTRONICS	590.682-014	IMPREGNATOR	3	2 2	THREE TO SIX MONTHS
47.0603	AUTOMOTIVE BODY REPAIR	845.381-010	PAINTER APPRENTICE, AUTOMOTIVE	3	2 2	ONE TO TWO YEARS
		845.381-014	PAINTER, TRANSPORTATION EQUIPMENT	3	2 2	ONE TO TWO YEARS
48.0304	SHOF AND BOOT REPAIR	590.685-038	HEEL SPRAYER, MACHINE	2	1 2	30 TO 90 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	570.485-014	GLAZE MAKER	3	2 1	THREE TO SIX MONTHS
		573.685-018	GLAZING-MACHINE OPLRATOR	2	1 1	UP TO 30 DAYS

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OCCUPATION: 7671

PHOTOGRAPHIC DEVELOPING MACHINE OPERATOR

These workers operate equipment used to develop film and print photographs. They also may process color slides and movie films. Some make prints from negatives. Some mend, sort, and file film. Some tend machines that develop rolls of film. These workers may spend much of their time in a darkroom. They mix developer and other solutions and operate machines such as enlargers, printers, and dryers. Some tend machines that automatically develop, fix, wash, and dry photographs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	976.685-018	FILM LABORATORY TECHNICIAN 2	3 2 2	SIX TO 12 MONTHS
10.0103	PHOTOGRAPHIC TECHNOLOGY	976.382-010	CAMERA OPERATOR, TITLE	4 3 3	TWO TO FOUR YEARS
10.0106	VIDEO TECHNOLOGY	*976.684-014	FILM LABORATORY TECHNICIAN	3 2 2	30 TO 90 DAYS
48.0204	COMMERCIAL PHOTOGRAPHY	976.682-022	MICROFILM-CAMERA OPERATOR	3 1 2	UP TO 30 DAYS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.380-010	COMPUTER-CONTROLLED-COLOR-PHOTOGRAP	3 3 3	30 TO 90 DAYS
		976.382-010	CAMERA OPERATOR, TITLE	4 3 3	TWO TO FOUR YEARS
		976.382-014	COLOR-PRINTER OPERATOR	3 2 2	30 TO 90 DAYS
		976.382-018	FILM DEVELOPER	3 1 1	ONE TO TWO YEARS
		976.382-026	COMPUTER-OUTPUT-MICROFICHE OPERATOR	3 1 3	UP TO 30 DAYS
		976.385-010	MICROFILM PROCESSOR	3 2 2	UP TO 30 DAYS
		976.665-010	TAKE-DOWN SORTER	3 1 1	30 TO 90 DAYS
		976.667-010	PHOTOGRAPHER HELPER	3 2 2	THREE TO SIX MONTHS
		976.682-010	FILM PRINTER	3 1 1	SIX TO 12 MONTHS
		976.682-014	PRINTER OPERATOR, BLACK-AND-WHITE	3 1 1	SIX TO 12 MONTHS
		976.682-018	RECTIFICATION PRINTER	3 2 1	THREE TO SIX MONTHS
		976.684-014	FILM LABORATORY TECHNICIAN	3 2 2	30 TO 90 DAYS
		976.685-014	DEVELOPER, AUTOMATIC	2 1 1	UP TO 30 DAYS
		976.685-022	MOUNTER, AUTOMATIC	2 1 1	UP TO 30 DAYS
		976.685-026	PRINT DEVELOPER, AUTOMATIC	2 1 1	THREE TO SIX MONTHS
		976.685-030	UTILITY WORKER, FILM PROCESSING	3 1 2	30 TO 90 DAYS

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OCCUPATION: 7672

ROASTING AND BAKING MACHINE OPERATORS AND TENDERS

These workers control or tend machines used to roast, bake, toast, or dry out food, tobacco, or other products and materials. They move switches and other controls to regulate roasters or ovens and the pumps or conveyors that move materials to and from these machines. They may also scoop or dump materials onto conveyors for processing. They weigh or test materials, record machine readings, connect equipment, and replace worn machinery parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	522.662-014	REDRYING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		523.362-010	COCOA-BEAN ROASTER 1	3 1 1	TWO TO FOUR YEARS
		523.362-014	DRIER OPERATOR	4 2 3	TWO TO FOUR YEARS
		523.382-010	GUNNER	2 2 2	UP TO 30 DAYS
		523.585-022	DRIER, LONG GOODS	2 2 2	UP TO 30 DAYS
		523.585-030	PULP-DRIER FIRER	2 2 2	30 TO 90 DAYS
		523.585-034	ROASTER, GRAIN	3 2 2	THREE TO SIX MONTHS
		523.662-010	BONE-CHAR KILN OPERATOR	3 2 3	THREE TO SIX MONTHS
		523.665-010	SUGAR DRIER	2 1 1	30 TO 90 DAYS
		523.682-010	CHOCOLATE TEMPERER	3 2 2	SIX TO 12 MONTHS
		523.682-014	COFFEE ROASTER	3 2 2	SIX TO 12 MONTHS
		523.682-022	DRIER OPERATOR	3 2 3	THREE TO SIX MONTHS
		523.682-026	DRUM DRIER	3 2 2	THREE TO SIX MONTHS
		523.682-030	KILN OPERATOR, MALT HOUSE	3 2 2	THREE TO SIX MONTHS
		523.682-038	TOBACCO CURER	3 1 1	30 TO 90 DAYS
		523.685-026	COFFEE ROASTER, CONTINUOUS PROCESS	2 2 2	30 TO 90 DAYS
		523.685-054	DEHYDRATOR TENDER	2 2 2	30 TO 90 DAYS
		523.685-058	DRIER ATTENDANT	2 1 1	30 TO 90 DAYS
		523.685-066	DRIER TENDER	2 1 1	30 TO 90 DAYS
		523.685-070	DRIER TENDER	2 2 2	30 TO 90 DAYS
		523.685-074	DRIER TENDER 1	1 1 1	UP TO 30 DAYS
		523.685-078	FIRER, KILN	2 1 1	30 TO 90 DAYS
		523.685-086	GRAIN DRIER	2 2 2	UP TO 30 DAYS
		523.685-090	GRAIN-DRIER OPERATOR	2 2 2	30 TO 90 DAYS
		523.685-098	GRANULATOR OPERATOR	2 1 1	30 TO 90 DAYS
		523.685-106	INSTANTIZER OPERATOR	2 2 1	30 TO 90 DAYS
		523.685-114	STERILIZER OPERATOR	2 2 2	30 TO 90 DAYS
		523.685-118	TOBACCO-DRIER OPERATOR	2 2 2	UP TO 30 DAYS
		523.685-122	VACUUM DRIER OPERATOR	3 1 2	UP TO 30 DAYS
		523.685-126	WINE PASTEURIZER	2 2 1	30 TO 90 DAYS
		526.382-026	STEAM-OVEN OPERATOR	2 1 1	30 TO 90 DAYS
		526.585-010	OVEN OPERATOR	2 1 1	30 TO 90 DAYS
		526.682-026	MALT ROASTER	3 2 2	THREE TO SIX MONTHS
		529.685-174	NUT ROASTER	2 2 2	30 TO 90 DAYS

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OCCUPATION: 7672 ROASTING AND BAKING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
20.0402	BAKING	523.685-094	GRAIN-WAFER-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		526.682-030	OVEN OPERATOR, AUTOMATIC	3 2 2	THREE TO SIX MONTHS
		526.685-030	OVEN TENDER	3 1 1	THREE TO SIX MONTHS
		526.685-054	PRETZEL COOKER	2 1 1	30 TO 90 DAYS
		526.685-066	WAFER-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
20.0406	FOOD SERVICE	526.685-026	CORN POPPER	1 1 1	UP TO 30 DAYS
		526.685-030	OVEN TENDER	3 1 1	THREE TO SIX MONTHS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7673

WASHING, CLEANING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS

These workers operate or tend machines used to wash, clean, pickle, or cure products or materials. They work in a variety of industries. They may wash food products, bleach paper, cure or pickle meats, or clean industrial products before they are processed or shipped. They weigh materials, load machine containers or conveyors, adjust machine settings and guides, and inspect finished products. They may take equipment apart and clean it, mix ingredients, unload and stack finished products, and keep process records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED						
		509.685-014	BRANNER-MACHINE TENDER	3	2	2	THREE TO SIX MONTHS
		511.685-022	DUST-COLLECTOR ATTENDANT	3	1	1	30 TO 90 DAYS
		511.685-066	TROMMEL TENDER	2	1	1	UP TO 30 DAYS
		521.685-110	DRIED FRUIT WASHER	1	1	1	UP TO 30 DAYS
		529.665-014	WASHROOM OPERATOR	2	1	1	UP TO 30 DAYS
		529.685-074	CONTAINER WASHER, MACHINE	2	1	1	UP TO 30 DAYS
		529.685-226	STEAMER	2	1	1	UP TO 30 DAYS
		529.685-254	WASH-HOUSE WORKER	2	1	1	UP TO 30 DAYS
		529.685-258	WASHER, AGRICULTURAL PRODUCE	1	1	1	UP TO 30 DAYS
		529.685-262	WHEAT CLEANER	2	1	1	30 TO 90 DAYS
		529.685-278	YFAST WASHER	3	2	3	UP TO 30 DAYS
		533.362-010	BLEACHER, PULP	3	3	3	SIX TO 12 MONTHS
		533.665-010	BLOW-PIT OPERATOR	2	1	1	30 TO 90 DAYS
		533.682-010	DECKER OPERATOR	3	2	2	THREE TO SIX MONTHS
		533.685-010	BLEACH-BOILER FILLER	2	2	1	UP TO 30 DAYS
		533.685-014	BROWN-STOCK WASHER	2	2	1	UP TO 30 DAYS
		533.685-034	WASHER ENGINEER	2	2	1	30 TO 90 DAYS
		549.685-010	AIR-TABLE OPERATOR	2	1	1	UP TO 30 DAYS
		551.682-010	BENZENE-WASHER OPERATOR	3	2	3	SIX TO 12 MONTHS
		551.685-110	PRECIPITATE WASHER	3	1	1	30 TO 90 DAYS
		558.685-018	BLEACHER OPERATOR	2	1	1	30 TO 90 DAYS
		558.685-050	NITROGLYCERIN NEUTRALIZER	3	1	2	SIX TO 12 MONTHS
		559.485-010	WASH-MILL OPERATOR	2	2	1	30 TO 90 DAYS
		559.665-042	WASH HELPER	3	2	2	THREE TO SIX MONTHS
		559.682-046	SODA-ROOM OPERATOR	3	2	2	THREE TO SIX MONTHS
		559.685-022	AMPOULE-WASHING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		559.685-062	ELECTRODE-CLEANING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		559.685-138	PRESS OPERATOR	2	1	1	30 TO 90 DAYS
		559.685-146	PRESSROOM WORKER, FAT	2	1	1	UP TO 30 DAYS
		559.685-182	WASH-TANK TENDER	2	2	2	30 TO 90 DAYS
		559.686-014	DRIER FEEDER	1	1	1	UP TO 30 DAYS
		579.685-030	MOLD POLISHER	2	2	2	30 TO 90 DAYS
		579.685-054	SILVER STRIPPER, MACHINE	2	2	1	UP TO 30 DAYS
		590.685-026	DRY-CHARGE-PROCESS ATTENDANT	3	2	2	THREE TO SIX MONTHS

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OCCUPATION: 7673 WASHING, CLEANING AND PICKLING EQUIPMENT OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		599.685-022	DEFINER	2 1 1	UP TO 30 DAYS
		599.685-038	FILTER WASHER AND PRESSER	2 1 2	UP TO 30 DAYS
		599.685-114	WASHER, MACHINE	2 1 2	UP TO 30 DAYS
		599.685-118	WASHING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
47.0408	WATCH REPAIR	599.685-106	TUMBLER	2 1 2	UP TO 30 DAYS
48.0502	FOUNDRY WORK	599.685-110	TUMBLER OPERATOR	2 1 2	UP TO 30 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	579.685-018	GLASS-CLEANING-MACHINE TENDER	2 1 1	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	599.685-098	TUBBER	2 1 2	UP TO 30 DAYS
		599.685-110	TUMBLER OPERATOR	2 1 2	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7674

FOLDING MACHINE OPERATORS AND TENDERS

These people operate or tend machines to fold paper and paperboard into products, such as boxes, bags, and envelopes. They may also fold and press pleats in cloth or other materials to shape parts of products. They attach folder devices to the machine, using handtools. They adjust machine guides and folders to produce folds of specified sizes. They mount material in the machine and may thread it through folder and pressing devices. They then start the machine and watch it operate. These workers may tend one or more machines

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	554.485-014	STRAP-FOLDING-MACHINE OPERATOR	3	2 2	UP TO 30 DAYS
		583.685-082	PLEATING-MACHINE OPERATOR	3	2 3	THREE TO SIX MONTHS
		641.685-010	BENDER, MACHINE	2	2 1	30 TO 90 DAYS
		641.685-022	CARTON-FORMING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		641.685-050	FOLDING-MACHINE FELDER	2	1 1	UP TO 30 DAYS
		641.685-054	FOUR-CORNER-STAYER-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		641.685-078	SLIDE-MACHINE TENDER	2	1 1	UP TO 30 DAYS
		641.685-086	STRING-TOP SEALER	2	1 1	UP TO 30 DAYS
		641.685-094	VALVING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		641.686-034	SLEEVER	1	1 1	UP TO 30 DAYS
		649.685-042	ENVELOPE-MACHINE OPERATOR	2	1 1	THREE TO SIX MONTHS
		649.685-046	FOLDING-MACHINE OPERATOR	3	2 2	30 TO 90 DAYS
		649.685-106	SHOT-TUBE-MACHINE TENDER	2	1 1	UP TO 30 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7675

FURNACE, KILN, AND OVEN OPERATORS AND TENDERS

These workers control furnaces, kilns, or ovens to heat-treat products or materials. They work in a variety of industries. They may control heating equipment used to process oil or ore, clean parts, or heat rivets. They often work from written directions. They light burners, regulate temperature controls, start conveyors or pumps, and load materials for processing. They may also weigh or add chemicals to materials, clean and oil the machinery, and keep processing records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	503.685-022	FLAME DEGREASER	1	1 1	UP TO 30 DAYS
		504.485-010	RIVET HEATER	3	2 2	THREE TO SIX MONTHS
		504.685-030	REEL-BLADE-BENDER FURNACE TENDER	1	1 1	UP TO 30 DAYS
		509.685-018	BURNING-PLANT OPERATOR	2	1 1	UP TO 30 DAYS
		532.585-010	MATRIX-DRIER TENDER	2	2 2	30 TO 90 DAYS
		532.685-010	BACK TENDER, INSULATION BOARD	2	1 1	UP TO 30 DAYS
		532.686-014	PAPER-CONE-DRYING-MACHINE OPERATOR	1	1 1	SHORT DEMONSTRATION
		532.687-010	LABEL DRIER	2	1 1	UP TO 30 DAYS
		534.565-010	OVEN TENDER	2	2 1	UP TO 30 DAYS
		542.362-010	HEATER	3	2 2	ONE TO TWO YEARS
		542.562-010	FURNACE OPERATOR	3	2 2	ONE TO TWO YEARS
		542.685-010	PLANT OPERATOR, CHANNEL PROCESS	3	2 2	UP TO 30 DAYS
		542.685-018	UNIT OPERATOR	3	2 1	30 TO 90 DAYS
		543.362-010	OIL BOILER	3	3 2	SIX TO 12 MONTHS
		543.382-010	DRIER OPERATOR	3	2 2	THREE TO SIX MONTHS
		543.562-010	CARBON-FURNACE OPERATOR	3	2 2	SIX TO 12 MONTHS
		543.682-010	COKE BURNER	3	3 2	SIX TO 12 MONTHS
		543.682-014	DRIER OPERATOR	3	2 2	THREE TO SIX MONTHS
		543.682-018	FURNACE OPERATOR	3	2 2	30 TO 90 DAYS
		543.685-014	DRIER TENDER	2	2 2	30 TO 90 DAYS
		543.685-018	OVEN TENDER	2	2 2	30 TO 90 DAYS
		543.685-022	THAW-SHED HEATER TENDER	2	2 1	THREE TO SIX MONTHS
		551.685-026	CENTRIFUGAL-DRIER OPERATOR	3	1 1	THREE TO SIX MONTHS
		553.382-010	AUTOCLAVE OPERATOR 1	3	2 2	SIX TO 12 MONTHS
		553.382-014	BOILER	4	3 3	TWO TO FOUR YEARS
		553.382-022	VARNISH MAKER	3	2 2	SIX TO 12 MONTHS
		553.385-010	DRIER OPERATOR	3	1 1	THREE TO SIX MONTHS
		553.385-014	PRIMER EXPEDITOR AND DRIER	2	1 2	30 TO 90 DAYS
		553.462-010	FLASH-DRIER OPERATOR	3	2 2	THREE TO SIX MONTHS
		553.582-010	DRIER OPERATOR 2	3	2 2	THREE TO SIX MONTHS
		553.582-014	POT FIRER	3	2 2	SIX TO 12 MONTHS
		553.665-014	BLACK-MILL OPERATOR	3	2 2	THREE TO SIX MONTHS
		553.665-026	DRIER OPERATOR 1	2	1 1	30 TO 90 DAYS
		553.665-030	DRUM-DRIER OPERATOR	2	1 1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM; DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7675 FURNACE, KILN, AND OVEN OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M I.	
		553.665-034	FIRER HELPER	2	1 1	UP TO 30 DAYS
		553.665-038	HEATER TENDER	2	1 2	UP TO 30 DAYS
		553.665-054	TRAY-DRIER OPERATOR	2	1 1	30 TO 90 DAYS
		553.682-010	BLACK-ASH-BURNER OPERATOR	3	2 2	THREE TO SIX MONTHS
		553.682-018	EVAPORATOR OPERATOR	3	1 2	THREE TO SIX MONTHS
		553.682-022	REDUCTION-FURNACE OPERATOR	3	2 2	THREE TO SIX MONTHS
		553.684-014	NITROCELLULOSE OPERATOR	3	1 1	THREE TO SIX MONTHS
		553.685-018	BONE-CHAR KILN TENDER	2	1 1	UP TO 30 DAYS
		553.685-022	BONE-DRIER OPERATOR	2	1 1	UP TO 30 DAYS
		553.685-026	CADMIUM-LIQUOR MAKER	2	1 1	UP TO 30 DAYS
		553.685-030	CALCINE-FURNACE TENDER	2	1 1	30 TO 90 DAYS
		553.685-034	CONTINUOUS-LINTER-DRIER OPERATOR	2	1 1	UP TO 30 DAYS
		553.685-038	CURING-OVEN TENDER	3	1 1	THREE TO SIX MONTHS
		553.685-042	DRIER OPERATOR	3	2 2	30 TO 90 DAYS
		553.685-050	DRIER OPERATOR 3	3	2 2	SIX TO 12 MONTHS
		553.685-054	DRIER OPERATOR 4	3	2 2	THREE TO SIX MONTHS
		553.685-074	LINE-SLUDGE KILN OPERATOR	2	1 1	UP TO 30 DAYS
		553.685-082	OVEN TENDER	3	1 1	30 TO 90 DAYS
		553.685-086	PIGMENT FURNACE TENDER	3	2 2	30 TO 90 DAYS
		553.685-090	RABBLE-FURNACE TENDER	3	1 1	30 TO 90 DAYS
		553.685-094	ROTARY-FURNACE TENDER	2	1 1	30 TO 90 DAYS
		553.685-098	SOAP-DRIER OPERATOR	2	1 1	UP TO 30 DAYS
		553.685-106	VACUUM-DRIER TENDER	3	1 1	THREE TO SIX MONTHS
		558.482-010	FURNACE OPERATOR	3	3 2	THREE TO SIX MONTHS
		558.585-030	LEAD-NITRATE PROCESSOR	2	1 2	30 TO 90 DAYS
		558.585-034	NEUTRALIZER	2	2 2	30 TO 90 DAYS
		558.685-054	RED-LEAD BURNER	2	1 1	UP TO 30 DAYS
		559.662-010	ACID MAKER	3	2 2	SIX TO 12 MONTHS
		563.382-010	KILN OPERATOR	3	3 2	ONE TO TWO YEARS
		563.682-010	CHARCOAL BURNER, BEEHIVE KILN	3	2 2	THREE TO SIX MONTHS
		571.685-010	BURNER TENDER	2	1 1	UP TO 30 DAYS
		573.382-010	ROTARY-KILN OPERATOR	3	2 2	THREE TO SIX MONTHS
		573.685-030	LENS HARDENER	2	2 1	UP TO 30 DAYS
		573.685-034	REGENERATOR OPERATOR	2	2 2	THREE TO SIX MONTHS
		579.382-014	CUPOLA OPERATOR, INSULATION	3	2 2	ONE TO TWO YEARS
		579.662-010	MAT-MACHINE OPERATOR	3	2 1	THREE TO SIX MONTHS
		579.685-034	NODULIZER	3	2 2	30 TO 90 DAYS
		581.686-038	TRAY DRIER	1	1 1	UP TO 30 DAYS
		590.382-010	OPERATOR, AUTOMATED PROCESS	3	3 3	THREE TO SIX MONTHS
		590.662-022	STOVE-CARRIAGE OPERATOR	3	2 2	THREE TO SIX MONTHS
		590.665-010	OVEN OPERATOR	2	1 2	30 TO 90 DAYS
		590.685-010	BACKING-IN-MACHINE TENDER	2	1 1	UP TO 30 DAYS

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OCCUPATION: 7675 FURNACE, KILN, AND OVEN OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		619.662-010	SHRINK-PIT OPERATOR	3 2 2	SIX TO 12 MONTHS
		709.682-010	AUTOCLAVE OPERATOR 2	3 2 3	ONE TO TWO YEARS
		869.685-010	KETTLE TENDER	1 1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	581.685-014	DRIER	2 1 2	30 TO 90 DAYS
41.0301	CHEMICAL TECHNOLOGY	553.382-018	EVAPORATOR OPERATOR	4 3 3	ONE TO TWO YEARS
47.0105	INDUSTRIAL ELECTRONICS	599.462-010	IMPREGNATOR AND DRIER	3 2 3	SIX TO 12 MONTHS
48.0502	FOUNDRY WORK	509.565-010	KILN OPERATOR	2 2 2	30 TO 90 DAYS
		511.565-014	DRIER TENDER	3 2 2	THREE TO SIX MONTHS
		512.685-010	FURNACE TENDER	2 1 1	30 TO 90 DAYS
		512.685-018	POT TENDER	3 1 1	30 TO 90 DAYS
		513.462-010	FURNACE OPERATOR	3 2 2	THREE TO SIX MONTHS
		513.565-010	KILN OPERATOR	3 1 2	THREE TO SIX MONTHS
		513.682-010	ROTARY-KILN OPERATOR	3 2 2	THREE TO SIX MONTHS
		518.685-010	CORE-OVEN TENDER	2 1 2	UP TO 30 DAYS
		519.665-014	STANDPIPE TENDER	2 1 1	UP TO 30 DAYS
		519.685-010	BRIQUETTING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		519.685-018	KETTLE OPERATOR	3 2 2	THREE TO SIX MONTHS
		519.685-022	KETTLE TENDER 1	3 1 2	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.685-010	BASE-DRAW OPERATOR	3 2 2	30 TO 90 DAYS
		504.685-026	PRODUCTION HARDENER	2 2 2	30 TO 90 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	572.685-010	GLASS-FURNACE TENDER	2 1 1	UP TO 30 DAYS
		573.362-010	DRY-KILN OPERATOR	3 2 1	SIX TO 12 MONTHS
		573.382-014	SPRAY-DRIER OPERATOR	3 2 1	THREE TO SIX MONTHS
		573.382-018	TUNNEL-KILN OPERATOR	3 2 2	SIX TO 12 MONTHS
		573.585-010	OVEN TENDER	2 2 2	UP TO 30 DAYS
		573.662-010	FIRER, KILN	4 3 2	SIX TO 12 MONTHS
		573.682-010	KILN BURNER	3 2 2	SIX TO 12 MONTHS
		573.683-010	STEAM-TANK OPERATOR	2 2 2	THREE TO SIX MONTHS
		573.685-010	ANNEALER	3 1 1	30 TO 90 DAYS
		573.685-014	CLAY ROASTER	3 2 2	THREE TO SIX MONTHS
		573.685-026	LEHR TENDER	2 1 1	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	590.685-034	FIRER	2 1 2	30 TO 90 DAYS
48.0604	PLASTICS	553.482-010	AGER OPERATOR	3 2 2	SIX TO 12 MONTHS
		553.585-010	DEBUBBLIZER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 7675 FURNACE, KILN, AND OVEN OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		553.665-042	PLASTICS-SEASONER OPERATOR	2 1 1	UP TO 30 DAYS
		553.685-046	DRIER OPERATOR 2	2 1 1	UP TO 30 DAYS
		556.585-014	POLYMERIZATION-OVEN OPERATOR	2 1 1	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7676

STILL, CLARIFIER, AND PRECIPITATOR OPERATORS AND TENDERS

These workers operate or tend equipment used to purify, refine, or process industrial materials. They work in a variety of industries. They may refine sugar or other food products, remove impurities from water used in making products or separate metals from ore. They mix and blend chemicals, dump ingredients in vats, watch gauges, adjust valves, and collect and weigh sample materials. They also clean tanks, screens, pipes, and other processing equipment. They may repair faulty equipment, keep records, and write reports.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
00.0000	NO CIP ASSIGNED	511.465-010	TOP-PRECIPITATOR OPERATOR	3	1 2	THREE	TO SIX MONTHS
		511.662-010	CLARIFIER OPERATOR	3	2 2	THREE	TO SIX MONTHS
		511.664-010	BOTTOM-PRECIPITATOR OPERATOR	2	1 2	THREE	TO SIX MONTHS
		511.685-018	CONDENSER-TUBF TENDER	2	1 1	UP TO	30 DAYS
		511.685-030	KETTLE TENDER 2	3	1 2	THREE	TO SIX MONTHS
		511.685-034	KETTLE TENDER, PLATINUM AND PALLADI	3	1 2	THREE	TO SIX MONTHS
		511.685-038	PRECIPITATOR 1	3	1 1	THREE	TO SIX MONTHS
		511.685-042	PRECIPITATOR 2	3	1 2	THREE	TO SIX MONTHS
		511.685-054	SLIME-PLANT OPERATOR 2	3	1 2	THREE	TO SIX MONTHS
		521.362-010	CONTINUOUS-ABSORPTION-PROCESS OPERA	3	2 2	THREE	TO SIX MONTHS
		521.565-014	MASH-FILTER OPERATOR	1	1 1	UP TO	30 DAYS
		521.685-054	CLARIFIER	2	1 1	UP TO	30 DAYS
		521.685-058	CLARIFIER	2	1 2	30 TO	90 DAYS
		521.685-186	HOT-WORT SETTLER	1	1 1	UP TO	30 DAYS
		522.382-026	STILL OPERATOR	4	4 3	ONE TO	TWO YEARS
		522.382-030	STILL OPERATOR	3	2 3	SIX TO	12 MONTHS
		522.465-010	STEEP TENDER	3	2 2	THREE	TO SIX MONTHS
		522.585-010	BARLEY STEEPER	2	2 2	UP TO	30 DAYS
		522.585-014	GERMINATION WORKER	3	2 2	SIX TO	12 MONTHS
		522.685-026	CARBONATION EQUIPMENT TENDER	3	2 2	30 TO	90 DAYS
		522.685-038	CURING-BIN OPERATOR	2	2 2	30 TO	90 DAYS
		522.685-042	DE-ALCOHOLIZER	2	2 2	30 TO	90 DAYS
		522.685-046	DEODORIZER	2	2 2	30 TO	90 DAYS
		522.685-050	DORR OPERATOR	2	2 2	30 TO	90 DAYS
		522.685-054	DROPPER, FERMENTING CELLAR	2	1 2	UP TO	30 DAYS
		522.685-058	DRUM LOADER AND UNLOADER	2	1 1	UP TO	30 DAYS
		522.685-070	HONEY PROCESSOR	2	1 1	30 TO	90 DAYS
		522.685-074	MALT-HOUSE OPERATOR	2	2 2	30 TO	90 DAYS
		522.685-078	MOLASSES PREPARER	3	2 2	30 TO	90 DAYS
		522.685-082	NEUTRALIZER	3	2 2	30 TO	90 DAYS
		522.685-090	SEED-YEAST OPERATOR	3	2 2	30 TO	90 DAYS
		522.685-098	STILL OPERATOR	3	1 2	THREE	TO SIX MONTHS
		522.685-102	VACUUM-CONDITIONER OPERATOR	3	2 2	30 TO	90 DAYS

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OCCUPATION: 7676 STILL, CLARIFIER AND PRECIPITATOR OPERATORS AND TEN (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R M I	TRAINING TIME
		522.685-106	WRINGER OPERATOR	2 1 1	UP TO 30 DAYS
		522.685-110	YEAST-FERMENTATION ATTENDANT	2 2 2	30 TO 90 DAYS
		523.382-014	MAPLE-SIRUP MAKER	3 2 2	SIX TO 12 MONTHS
		523.382-018	MELTER OPERATOR	3 2 2	THREE TO SIX MONTHS
		523.585-026	PASTEURIZER	3 2 2	UP TO 30 DAYS
		523.682-034	PERCOLATOR OPERATOR	3 2 2	THREE TO SIX MONTHS
		523.685-110	PASTEURIZER	2 2 1	UP TO 30 DAYS
		526.382-022	MOLASSES AND CARAMEL OPERATOR	3 2 3	THREE TO SIX MONTHS
		529.362-014	DRY-STARCH OPERATOR, AUTOMATIC	3 2 2	TWO TO FOUR YEARS
		529.382-030	IRISH-MOSS OPERATOR	3 2 1	SIX TO 12 MONTHS
		529.582-010	CARBONATION EQUIPMENT OPERATOR	4 3 3	ONE TO TWO YEARS
		529.582-014	FLASH-DRIER OPERATOR	4 2 3	TWO TO FOUR YEARS
		529.682-022	DRIER OPERATOR	4 2 3	SIX TO 12 MONTHS
		529.685-094	DEOILING-MACHINE AND PASTEURIZING-M	1 1 1	UP TO 30 DAYS
		529.685-158	LARD REFINER	2 1 1	30 TO 90 DAYS
		529.685-198	REFINING-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
		532.685-018	EVAPORATOR OPERATOR	2 2 1	UP TO 30 DAYS
		533.685-018	SAVE-ALL OPERATOR	2 1 1	UP TO 30 DAYS
		542.685-014	SUBLIMER	2 2 1	30 TO 90 DAYS
		543.682-026	STILL OPERATOR	3 2 2	SIX TO 12 MONTHS
		546.385-010	GAS TREATER	3 3 2	THREE TO SIX MONTHS
		549.382-014	OIL-RECOVERY-UNIT OPERATOR	3 3 2	30 TO 90 DAYS
		549.382-018	WASH-OIL-PUMP OPERATOR	3 3 2	SIX TO 12 MONTHS
		549.585-010	ACETYLENE-PLANT OPERATOR	2 2 2	30 TO 90 DAYS
		551.485-010	WATER-TREATMENT-PLANT OPERATOR	3 2 2	THREE TO SIX MONTHS
		551.585-014	MERCURY PURIFIER	2 2 1	THREE TO SIX MONTHS
		551.585-018	PAN HELPER	3 1 2	THREE TO SIX MONTHS
		551.665-010	NAPHTHALENE OPERATOR	2 1 1	30 TO 90 DAYS
		551.685-014	BOILING-TUB OPERATOR	2 1 1	UP TO 30 DAYS
		551.685-022	CATALYST-RECOVERY OPERATOR	3 2 2	30 TO 90 DAYS
		551.685-030	CENTRIFUGE OPERATOR	2 1 1	UP TO 30 DAYS
		551.685-038	CENTRIFUGE-SEPARATOR OPERATOR	2 1 1	UP TO 30 DAYS
		551.685-050	DUST-COLLECTOR OPERATOR	2 1 1	30 TO 90 DAYS
		551.685-054	EXTRACTOR OPERATOR	2 1 1	UP TO 30 DAYS
		551.685-058	EXTRACTOR OPERATOR	2 2 2	30 TO 90 DAYS
		551.685-062	EXTRACTOR OPERATOR, SOLVENT PROCESS	2 1 1	UP TO 30 DAYS
		551.685-066	EXTRACTOR-AND-WRINGER OPERATOR	2 1 1	UP TO 30 DAYS
		551.685-070	FAT-PURIFICATION WORKER	3 1 2	30 TO 90 DAYS
		551.685-086	GREASE-REFINER OPERATOR	2 1 1	30 TO 90 DAYS
		551.685-090	LEACHER	2 1 1	30 TO 90 DAYS
		551.685-094	LYE TREATER	3 2 2	30 TO 90 DAYS
		551.685-098	MERCURY WASHER	2 1 1	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7676 STILL, CLARIFIER AND PRECIPITATOR OPERATORS AND TEN (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		551.685-102	NITROGLYCERIN-SEPARATOR OPERATOR	3 1 1	THREE TO SIX MONTHS
		551.685-122	PURIFICATION OPERATOR	3 2 2	UP TO 30 DAYS
		551.685-126	SALT WASHER	3 1 2	THREE TO SIX MONTHS
		551.685-134	SODA DIALYZER	3 1 2	THREE TO SIX MONTHS
		551.685-150	VACUUM-PAN OPERATOR 1	2 1 2	UP TO 30 DAYS
		551.685-154	VACUUM-PAN OPERATOR 2	2 1 2	30 TO 90 DAYS
		552.362-014	OXYGEN-PLANT OPERATOR	3 3 3	THREE TO SIX MONTHS
		552.362-022	STILL OPERATOR, BATCH OR CONTINUOUS	4 3 3	ONE TO TWO YEARS
		552.382-010	PYRIDINE OPERATOR	3 3 3	ONE TO TWO YEARS
		552.462-010	DISTILLATION OPERATOR	4 3 3	ONE TO TWO YEARS
		552.682-010	DISTILLER	3 2 2	SIX TO 12 MONTHS
		552.682-014	DISTILLER	3 2 2	THREE TO SIX MONTHS
		552.682-018	EXTRACTOR OPERATOR	3 2 2	SIX TO 12 MONTHS
		552.685-010	ACEONE-RECOVERY WORKER	2 1 2	30 TO 90 DAYS
		552.685-014	BATCH-STILL OPERATOR 1	3 2 2	THREE TO SIX MONTHS
		552.685-026	STILL TENDER	3 2 2	30 TO 90 DAYS
		553.685-010	AMMONIUM-NITRATE CRYSTALLIZER	3 2 2	THREE TO SIX MONTHS
		558.362-010	CATALYTIC-CONVERTER OPERATOR	3 2 2	TWO TO FOUR YEARS
		558.362-014	CD-REACTOR OPERATOR, HEAD	3 3 3	TWO TO FOUR YEARS
		558.362-018	SATURATOR OPERATOR	3 2 2	SIX TO 12 MONTHS
		558.382-010	ACID EXTRACTOR	3 2 3	SIX TO 12 MONTHS
		558.382-014	BURNER OPERATOR	3 3 3	SIX TO 12 MONTHS
		558.382-018	CAUSTICISER	3 2 1	THREE TO SIX MONTHS
		558.382-022	CAUSTICISER	3 2 2	SIX TO 12 MONTHS
		558.382-026	CELL TENDER	3 2 3	SIX TO 12 MONTHS
		558.382-030	CHLORINATOR OPERATOR	3 2 2	SIX TO 12 MONTHS
		558.382-034	CUPROUS-CHLORIDE OPERATOR	3 2 2	THREE TO SIX MONTHS
		558.382-038	KETTLE OPERATOR	3 2 2	SIX TO 12 MONTHS
		558.382-054	SODA-COLUMN OPERATOR	3 2 2	THREE TO SIX MONTHS
		558.382-058	WET-MIX OPERATOR	3 2 2	THREE TO SIX MONTHS
		558.385-010	CD-REACTOR OPERATOR	3 2 2	THREE TO SIX MONTHS
		558.385-014	TOWER HELPER	3 2 2	30 TO 90 DAYS
		558.485-010	CAUSTIC OPERATOR	3 3 2	THREE TO SIX MONTHS
		558.565-010	ACID-PLANT HELPER	3 1 2	THREE TO SIX MONTHS
		558.565-014	ELECTRIC-CELL TENDER	3 2 2	THREE TO SIX MONTHS
		558.582-010	PHOSPHORIC-ACID OPERATOR	4 3 3	TWO TO FOUR YEARS
		558.585-014	CHEMICAL OPERATOR 2	3 2 2	THREE TO SIX MONTHS
		558.585-018	CONTACT-ACID-PLANT OPERATOR	3 2 2	SIX TO 12 MONTHS
		558.585-026	DEVULCANIZER TENDER	2 2 2	30 TO 90 DAYS
		558.682-014	DISSOLVER OPERATOR	3 2 2	THREE TO SIX MONTHS
		558.682-018	FERMENTATION OPERATOR	3 2 2	SIX TO 12 MONTHS
		558.682-022	RECOVERY OPERATOR	3 1 2	THREE TO SIX MONTHS

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OCCUPATION: 7676 STILL, CLARIFIER AND PRECIPITATOR OPERATORS AND TEN (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		558.685-010	ACID-POLYMERIZATION OPERATOR	3	2 1	30 TO 90 DAYS
		558.685-014	BALL-MILL OPERATOR	3	2 2	30 TO 90 DAYS
		558.685-026	DE-IONIZER OPERATOR	3	2 2	THREE TO SIX MONTHS
		558.685-030	ION-EXCHANGE OPERATOR	3	1 2	THREE TO SIX MONTHS
		558.685-034	ION-EXCHANGE OPERATOR	3	2 2	30 TO 90 DAYS
		558.685-038	ION-EXCHANGE OPERATOR	3	2 2	SIX TO 12 MONTHS
		558.685-046	MVA-REACTOR OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.362-010	ALUM-PLANT OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.362-022	MVA-REACTOR OPERATOR, HEAD	3	3 3	ONE TO TWO YEARS
		559.382-018	CHEMICAL OPERATOR 3	3	3 2	TWO TO FOUR YEARS
		559.585-022	VACUUM-PAN OPERATOR	3	2 2	30 TO 90 DAYS
		559.665-018	EXTRACTOR-PLANT OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.682-018	CHEMICAL COMPOUNDR	3	2 2	THREE TO SIX MONTHS
		559.682-054	STERILE-PRODUCTS PROCESSOR	3	2 2	SIX TO 12 MONTHS
		559.682-062	STRONG-NITRIC OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.682-066	UTILITY OPERATOR 1	3	2 2	SIX TO 12 MONTHS
		559.685-010	ACID PURIFIER	2	1 1	30 TO 90 DAYS
		559.685-014	ALUMINUM-HYDROXIDE-PROCESS OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.685-042	CRYSTALLIZER OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.685-070	FERMENTER OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.685-074	FLAKER OPERATOR	2	2 2	30 TO 90 DAYS
		559.685-118	LIME-KILN OPERATOR	3	2 2	THREE TO SIX MONTHS
		559.685-190	WET-END OPERATOR 2	2	2 1	30 TO 90 DAYS
02.0301	FOOD SCIENCES	529.362-010	BUTTERMAKER	3	3 2	ONE TO TWO YEARS
15.0903	PETROLEUM TECHNOLOGY	549.362-014	TREATER	4	3 3	TWO TO FOUR YEARS
20.0406	FOOD SERVICE	526.682-034	RETOUR OPERATOR	3	1 1	SIX TO 12 MONTHS
41.0301	CHEMICAL TECHNOLOGY	552.362-022	STILL OPERATOR, BATCH OR CONTINUOUS	4	3 3	ONE TO TWO YEARS
		558.582-010	PHOSPHORIC-ACID OPERATOR	4	3 3	TWO TO FOUR YEARS
47.0504	PUMPING PLANTS	954.385-010	BASIN OPERATOR	3	2 2	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	511.485-010	MOLYBDENUM-STEAMER OPERATOR	3	2 2	THREE TO SIX MONTHS
		511.565-018	IRON-LAUNDER OPERATOR	3	1 2	THREE TO SIX MONTHS
		519.665-018	WET-PLANT OPERATOR	3	2 2	THREE TO SIX MONTHS
48.0604	PLASTICS	552.685-018	BATH-MIX OPERATOR	2	1 1	UP TO 30 DAYS
		558.382-042	KETTLE OPERATOR	3	2 2	SIX TO 12 MONTHS
		558.382-050	POLYMERIZATION-KETTLE OPERATOR	4	3 3	TWO TO FOUR YEARS

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OCCUPATION: 7676 STILL, CLARIFIER AND PRECIPITATOR OPERATORS AND TEN (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		558.682-010	CRACKING-UNIT OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.582-010	COAGULATION OPERATOR	3 2 2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	939.685-010	POND TENDER	2 2 1	THREE TO SIX MONTHS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7677

CRUSHING AND GRINDING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to crush, grind, or shape materials for use in products. They work in a wide variety of industries. For example, they may tend equipment used to grind grain into flour, crush soap chips into powder, shape the ends of brake linings, grind lenses, or crush stone. They do such things as load materials into machines, operate conveyors, adjust machine controls, and collect samples for testing. They also may weigh materials, clear machine jams, clean and oil machinery, and keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	515.382-010	GRINDING-MILL OPERATOR	3 2 2	ONE TO TWO YEARS
		521.362-014	MILLER, DISTILLERY	3 3 2	THREE TO SIX MONTHS
		521.585-014	MILLER	1 1 1	UP TO 30 DAYS
		521.585-018	POWDER-MILL OPERATOR	2 2 2	THREE TO SIX MONTHS
		521.662-010	MILLER, WET PROCESS	3 2 3	TWO TO FOUR YEARS
		521.682-022	FLAKE MILLER, WHEAT AND OATS	3 2 3	SIX TO 12 MONTHS
		521.682-026	GRINDER OPERATOR	3 1 2	TWO TO FOUR YEARS
		521.682-030	HULLER OPERATOR	3 1 1	SIX TO 12 MONTHS
		521.682-034	REFINING-MACHINE OPERATOR	3 2 2	ONE TO TWO YEARS
		521.685-034	BREAKING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		521.685-074	COCOA-ROOM OPERATOR	2 1 1	30 TO 90 DAYS
		521.685-078	COFFEE GRINDER	1 1 1	UP TO 30 DAYS
		521.685-082	CORN GRINDER	2 1 1	30 TO 90 DAYS
		521.685-086	CORN-GRINDER OPERATOR, AUTOMATIC	2 1 1	UP TO 30 DAYS
		521.685-090	CRUSHER OPERATOR	2 1 1	30 TO 90 DAYS
		521.685-094	CRUSHING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		521.685-122	FEED GRINDER	2 1 1	UP TO 30 DAYS
		521.685-162	GRATED-CHEESE MAKER	2 2 2	30 TO 90 DAYS
		521.685-166	GRINDER OPERATOR	2 1 1	UP TO 30 DAYS
		521.685-194	LABORATORY MILLER	2 1 1	30 TO 90 DAYS
		521.685-202	LIQUOR-GRINDING-MILL OPERATOR	2 1 1	30 TO 90 DAYS
		521.685-210	MEAL-GRINDER TENDER	1 1 1	UP TO 30 DAYS
		521.685-222	MILK-POWDER GRINDER	1 1 1	UP TO 30 DAYS
		521.685-226	MILL OPERATOR	1 1 1	UP TO 30 DAYS
		521.685-234	NUT GRINDER	1 1 1	UP TO 30 DAYS
		521.685-266	PULVERIZER	1 1 1	UP TO 30 DAYS
		521.685-314	SNUFF GRINDER AND SCREENER	2 1 1	THREE TO SIX MONTHS
		521.685-326	SPICE MILLER	2 1 1	30 TO 90 DAYS
		521.685-346	SUGAR GRINDER	2 1 1	30 TO 90 DAYS
		521.685-354	SUGAR-CHIPPER-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		521.685-358	SWEET-POTATO DISINTEGRATOR	2 1 1	UP TO 30 DAYS
		529.685-134	FRUIT-BAR MAKER	2 1 1	UP TO 30 DAYS
		530.382-010	PULP-REFINER OPERATOR	3 3 2	THREE TO SIX MONTHS

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OCCUPATION: 7677 CRUSHING, GRINDING AND POLISHING MACHINE OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		530.662-010	BEATER ENGINEER	3	3	2	SIX TO 12 MONTHS
		530.662-014	WOOD GRINDER OPERATOR	3	2	2	SIX TO 12 MONTHS
		530.682-010	PULP GRINDER AND BLENDER	3	2	2	ONE TO TWO YEARS
		530.685-014	PULPER	2	2	1	UP TO 30 DAYS
		544.565-010	GRINDER, CARBON PLANT	3	2	1	THREE TO SIX MONTHS
		544.582-010	CRUSHER-AND-BLENDER OPERATOR	3	2	2	THREE TO SIX MONTHS
		544.585-010	MIX-CRUSHER OPERATOR	2	1	1	UP TO 30 DAYS
		544.662-010	COKE-CRUSHER OPERATOR	3	2	1	THREE TO SIX MONTHS
		544.665-010	MILL-AND-COAL-TRANSPORT OPERATOR	2	2	2	30 TO 90 DAYS
		544.685-010	BREAKER TENDER	2	1	1	30 TO 90 DAYS
		555.382-010	PULVERIZER-MILL OPERATOR	3	2	2	THREE TO SIX MONTHS
		555.565-010	MILL ATTENDANT	3	1	1	30 TO 90 DAYS
		555.682-010	MILLER	3	1	1	TWO TO FOUR YEARS
		555.682-014	ROLLER-MILL OPERATOR	3	2	2	SIX TO 12 MONTHS
		555.682-018	SAND-MILL GRINDER	3	1	2	30 TO 90 DAYS
		555.682-022	STONE-MILL OPERATOR	3	1	2	30 TO 90 DAYS
		555.685-014	BONE CRUSHER	2	1	1	UP TO 30 DAYS
		555.685-018	COPRA PROCESSOR	3	1	2	30 TO 90 DAYS
		555.685-022	CRUSHER TENDER	2	1	1	UP TO 30 DAYS
		555.685-026	GRINDER	2	1	1	UP TO 30 DAYS
		555.685-030	GRINDER	2	1	2	UP TO 30 DAYS
		555.685-034	GRINDER OPERATOR	2	1	1	30 TO 90 DAYS
		555.685-038	MILL ATTENDANT	2	1	1	UP TO 30 DAYS
		555.685-046	PULVERIZER	2	1	1	UP TO 30 DAYS
		555.685-050	SCRATCHER TENDER	2	1	1	30 TO 90 DAYS
		555.685-058	SHREDDER OPERATOR	2	1	2	30 TO 90 DAYS
		555.685-062	SOAP GRINDER	2	1	1	UP TO 30 DAYS
		555.685-066	WHEEL-MILL OPERATOR	2	1	1	UP TO 30 DAYS
		564.685-010	BREAKER-MACHINE OPERATOR	2	1	1	THREE TO SIX MONTHS
		564.685-018	HOG TENDER	2	1	1	UP TO 30 DAYS
		570.685-018	CRUSHER OPERATOR	3	1	1	UP TO 30 DAYS
		570.685-022	CRUSHER TENDER	2	2	1	30 TO 90 DAYS
		570.685-030	HAMMER-MILL OPERATOR	2	1	1	30 TO 90 DAYS
		570.685-038	MILLER	2	1	1	UP TO 30 DAYS
		570.685-042	MILLER	2	1	1	UP TO 30 DAYS
		579.382-010	CALCINER, GYPSUM	3	2	2	THREE TO SIX MONTHS
		586.685-014	CONTINUOUS-CRUSHER OPERATOR	2	1	1	UP TO 30 DAYS
		599.685-058	MILL OPERATOR	2	1	2	30 TO 90 DAYS
		673.685-010	ABRASIVE GRINDER	3	1	1	30 TO 90 DAYS
		673.685-022	BEVELER	2	1	1	UP TO 30 DAYS
		673.685-042	CONVEX-GRINDER OPERATOR	2	1	1	UP TO 30 DAYS
		673.685-046	DIAMOND-POWDER TECHNICIAN	2	1	1	30 TO 90 DAYS

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OCCUPATION: 7677 CRUSHING, GRINDING AND POLISHING MACHINE OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		673.685-062	GROOVER	2	1 1	UP TO 30 DAYS
		673.685-074	STONE ROUGHER	3	1 1	UP TO 30 DAYS
		675.682-014	PLANE OPERATOR	3	2 2	SIX TO 12 MONTHS
		690.385-010	PLATE GRINDER	3	1 2	30 TO 90 DAYS
		690.685-038	BOWLING-BALL FINISHER	2	1 2	UP TO 30 DAYS
		690.685-330	ROUGH-AND-TRUEING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		690.685-390	SPONGE BUFFER	2	1 1	30 TO 90 DAYS
		716.685-018	GRINDER, HAND	2	1 1	UP TO 30 DAYS
		716.685-022	LENS-FABRICATING-MACHINE TENDER	2	2 2	THREE TO SIX MONTHS
		733.685-026	SMOOTHER	2	1 1	UP TO 30 DAYS
		759.684-022	BUFFER	2	1 1	UP TO 30 DAYS
		774.684-042	WARE DRESSER	3	1 1	THREE TO SIX MONTHS
		775.382-010	GLASS GRINDER, LABORATORY APPARATUS	3	1 1	SIX TO 12 MONTHS
		775.684-010	BEVELER	3	2 2	SIX TO 12 MONTHS
		775.684-018	EDGER, TOUCH-UP	2	1 1	30 TO 90 DAYS
		775.684-030	GLASS GRINDER	3	2 2	ONE TO TWO YEARS
		775.684-042	GLASS SANDER, BELT	2	1 1	UP TO 30 DAYS
		775.684-058	POLISHER	2	1 1	THREE TO SIX MONTHS
03.0403	FOREST PRODUCTS UTILIZATION	564.662-010	LOG-CHIPPER OPERATOR	3	1 2	THREE TO SIX MONTHS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	673.382-010	SANDBLASTER, STONE	3	1 1	ONE TO TWO YEARS
		673.382-014	SANDBLASTER, STONE APPRENTICE	3	1 1	ONE TO TWO YEARS
		673.662-010	TOP POLISHER	3	2 1	ONE TO TWO YEARS
		673.682-030	SLAB GRINDER	3	1 1	SIX TO 12 MONTHS
		673.685-014	BED RUBBER	3	2 1	THREE TO SIX MONTHS
		673.685-082	STRIP POLISHER	2	1 1	UP TO 30 DAYS
46.0402	CONCRETE PLACING AND FINISHING	570.685-046	MILLER	2	2 1	30 TO 90 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	628.682-010	ROLLER COVERER	3	2 2	THREE TO SIX MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	690.685-346	SANDER	2	1 1	UP TO 30 DAYS
		732.687-074	SPIN-TABLE OPERATOR	2	1 1	30 TO 90 DAYS
47.0408	WATCH REPAIR	673.682-022	FINISH OPENER, JEWEL HOLE	3	2 1	SIX TO 12 MONTHS
		715.684-078	CRYSTAL CUTTER	2	2 2	30 TO 90 DAYS
48.0304	SHOE AND BOOT REPAIR	690.685-050	BUFFER, AUTOMATIC	1	1 1	UP TO 30 DAYS
		753.684-010	BUFFING-AND-SUEDING-MACHINE OPERATO	2	1 1	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	521.685-214	MEAT GRINDER	1	1 1	UP TO 30 DAYS

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OCCUPATION: 7677 CRUSHING, GRINDING AND POLISHING MACHINE OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0502	FOUNDRY WORK	515.585-010	SCALE-RECLAMATION TENDER	3 1 1	THREE TO SIX MONTHS
		515.685-010	BATCH MAKER	2 1 1	UP TO 30 DAYS
		515.685-014	CRUSHER TENDER	3 1 1	30 TO 90 DAYS
		515.685-018	STAMPING-MILL TENDER	2 1 1	30 TO 90 DAYS
		515.687-010	HAMMER-MILL OPERATOR	2 1 1	30 TO 90 DAYS
		519.485-010	GRINDER-MILL OPERATOR	3 1 1	THREE TO SIX MONTHS
		519.685-030	ROL-MILL TENDER	2 1 1	UP TO 30 DAYS
		570.682-018	SAND MIXER, MACHINE	3 1 1	THREE TO SIX MONTHS
		705.684-074	SNAG GRINDER	2 1 2	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	705.684-014	BUFFER 1	2 1 2	THREE TO SIX MONTHS
		734.584-010	NEEDLE GRINDER	2 1 2	UP TO 30 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	570.665-010	DRY-PAN OPERATOR	2 2 1	THREE TO SIX MONTHS
		570.685-026	CULLET CRUSHER-AND-WASHER	2 2 1	UP TO 30 DAYS
		570.685-086	SAGGER PREPARER	2 1 1	30 TO 90 DAYS
		673.685-018	BEVELER	2 1 1	30 TO 90 DAYS
		673.685-026	BLOCKER	2 2 2	UP TO 30 DAYS
		673.685-030	BLOCKER, AUTOMATIC	2 1 1	UP TO 30 DAYS
		673.685-034	CIRCLE BEVELER	2 1 1	30 TO 90 DAYS
		673.685-033	CIRCLE EDGER	2 1 1	UP TO 30 DAYS
		673.685-050	ENGRAVER TENDER	2 1 1	30 TO 90 DAYS
		673.685-058	FINISH-MACHINE TENDER	3 1 1	SIX TO 12 MONTHS
		673.685-066	LEVEL-VIAL INSIDE GRINDER	2 1 1	30 TO 90 DAYS
		673.685-070	NOTCH GRINDER	2 1 2	30 TO 90 DAYS
		673.685-078	STRAIGHT-LINE EDGER	2 2 2	30 TO 90 DAYS
		679.685-022	TILE GRINDER	2 1 1	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	761.684-026	POLISHER	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 7678

SLICING AND CUTTING MACHINE OPERATORS AND TENDERS

These workers operate or tend machines used to slice or cut materials. They work in a wide variety of industries. They use machines to do such things as sliver almonds, shred tobacco, bore holes in stone, trim shoe parts, or cut parts from stock. They generally follow work orders. They install and adjust cutting blades, load or feed materials in machines, adjust controls, and check finished work. They may measure articles, mark cutting lines, sharpen blades, and send samples to a lab for testing. Many workers have other duties as well.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	521.685-018	ALMOND-CUTTING-MACHINE TENDER	2 1 1	30 TO 90 DAYS
		521.685-102	CUTTING-MACHINE OPERATOR	3 1 2	THREE TO SIX MONTHS
		521.685-158	GRANULATING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		521.685-298	SLICE-PLUG-CUTTER OPERATOR	2 1 1	UP TO 30 DAYS
		521.685-310	SMOKING-TOBACCO-CUTTER OPERATOR	2 1 1	UP TO 30 DAYS
		521.685-338	STRIP-CUTTING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		521.685-342	STRIPPER-CUTTER, MACHINE	2 1 1	UP TO 30 DAYS
		529.685-010	CHEESE CUTTER	2 1 1	UP TO 30 DAYS
		529.685-018	BINDER LAYER	2 1 1	UP TO 30 DAYS
		529.685-090	DEFECTIVE-CIGARETTE SLITTER	2 1 1	UP TO 30 DAYS
		529.685-110	FILLER SHREDDER, MACHINE	2 1 1	30 TO 90 DAYS
		529.685-118	FISH CLEANER MACHINE TENDER	2 1 1	UP TO 30 DAYS
		529.685-150	ICE CUTTER	1 1 1	UP TO 30 DAYS
		529.685-182	PLUG-CUTTING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		530.665-014	RAG-CUTTING-MACHINE TENDER	2 2 1	UP TO 30 DAYS
		555.665-010	SHREDDER TENDER	2 1 1	UP TO 30 DAYS
		555.685-010	BEATER OPERATOR	2 1 1	30 TO 90 DAYS
		559.685-134	POWDER-CUTTING OPERATOR	2 1 1	UP TO 30 DAYS
		559.685-142	PRESSER	2 1 1	UP TO 30 DAYS
		559.685-158	RUBBLER CUTTER	1 1 1	UP TO 30 DAYS
		590.685-050	ROLL-UP-GUIDER OPERATOR	2 1 1	THREE TO SIX MONTHS
		640.565-010	PAPER CUTTER	2 1 1	UP TO 30 DAYS
		640.685-022	COMB-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		640.685-026	COMPENSATOR	1 1 1	UP TO 30 DAYS
		640.685-036	CORNER CUTTER	2 1 1	UP TO 30 DAYS
		640.685-034	CUT-OFF-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		640.685-038	PANEL-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		640.685-066	ROLL-SLICING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		640.685-070	ROLLING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		640.685-074	ROUND-CORNER-CUTTER OPERATOR	2 2 1	UP TO 30 DAYS
		640.685-078	SLOTTER OPERATOR	2 2 1	30 TO 90 DAYS
		640.685-086	TUBE SIZER-AND-CUTTER OPERATOR	2 2 1	30 TO 90 DAYS
		649.682-014	CYLINDER-DIE-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7678 SLICING AND CUTTING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		649.685-026	CORE-CUTTER AND REAMER	3 2 2	THREE TO SIX MONTHS
		649.685-082	PARTITION-MAKING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		649.685-110	STEEL-TIE ADJUSTER, AUTOMATIC	2 1 1	UP TO 30 DAYS
		677.382-014	SAWYER, OPTICAL GLASS	3 2 2	TWO TO FOUR YEARS
		677.685-010	ABRASIVE SAWYER	2 2 1	UP TO 30 DAYS
		677.685-014	ASSEMBLER, LAY-UPS	2 1 1	UP TO 30 DAYS
		677.685-018	CARBON CUTTER	3 2 1	THREE TO SIX MONTHS
		677.685-022	CRAYON SAWYER	1 1 1	UP TO 30 DAYS
		677.685-026	CUT-OFF-SAW OPERATOR, PIPE BLANKS	2 1 1	30 TO 90 DAYS
		677.685-034	SAMPLE SAWYER	1 1 1	UP TO 30 DAYS
		677.685-038	SAWYER	2 1 1	UP TO 30 DAYS
		690.482-014	TRIMMER	3 2 2	THREE TO SIX MONTHS
		690.485-010	BAND-SAWING-MACHINE OPERATOR	2 1 2	30 TO 90 DAYS
		690.682-022	BIAS-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		690.685-026	BAND CUTTER	2 1 1	30 TO 90 DAYS
		690.685-062	BUTTON-DECORATING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		690.685-118	CUTTER	2 1 2	UP TO 30 DAYS
		690.685-122	CUTTING-MACHINE TENDER	3 2 2	30 TO 90 DAYS
		690.685-262	LAST SAWYER	2 1 1	UP TO 30 DAYS
		690.685-290	MOLDED-RUBBER-GOODS CUTTER	2 1 1	UP TO 30 DAYS
		690.685-302	PAD CUTTER	2 1 2	30 TO 90 DAYS
		690.685-306	PLUG CUTTER	2 1 2	UP TO 30 DAYS
		690.685-322	ROLL CUTTER	1 1 1	UP TO 30 DAYS
		690.685-342	RUBBER-CUTTING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		690.685-354	SHAPING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		690.685-386	SPLITTING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		690.685-402	STRAP-CUTTING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		690.685-446	TUBER-MACHINE CUTTER	2 1 2	UP TO 30 DAYS
		690.685-458	V-BELT SKIVER	2 1 1	30 TO 90 DAYS
		692.682-042	GAGE OPERATOR	3 1 2	THREE TO SIX MONTHS
		692.685-130	PINKING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		692.685-174	SLICING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		692.685-222	TILE-POWER-SHEAR OPERATOR	2 1 1	UP TO 30 DAYS
		692.685-258	WIRE-TURNING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		692.685-266	ZIPPER TRIMMER, MACHINE	2 1 1	UP TO 30 DAYS
		699.682-018	CUTTER OPERATOR	3 2 2	THREE TO SIX MONTHS
		699.682-026	ROLL-SHEETING CUTTER	3 2 2	THREE TO SIX MONTHS
		699.682-030	SLITTING-MACHINE OPERATOR 1	3 2 3	THREE TO SIX MONTHS
		716.682-014	PRECISION-LENS GENERATOR	3 3 3	ONE TO TWO YEARS
		739.685-022	CLIPPER	2 1 1	UP TO 30 DAYS
		752.684-010	BALLOON MAKER	3 2 2	30 TO 90 DAYS
		753.687-042	STOCKLAYER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7678 SLICING AND CUTTING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	I
		775.685-010	CUTTING-MACHINE TENDER, DECORATIVE	2	1	1
		779.684-038	MIRROR SPECIALIST	2	1	1
10.0106	VIDEO TECHNOLOGY	*976.685-010	CUTTER	2	1	1
15.0304	LASER ELECTRO-OPTIC TECHNOLOGY	726.682-010	LASER-BEAM-TRIM OPERATOR	4	3	3
20.0402	BAKING	521.685-302	SLICING-MACHINE OPERATOR	2	1	1
20.0406	FOOD SERVICE	529.685-082	CUTTER	1	1	1
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	670.685-010	STONE TRIMMER	2	1	1
		677.682-018	SINK CUTTER	2	1	2
		677.682-022	STONECUTTER, MACHINE	3	2	1
		677.685-046	SPLITTING-MACHINE OPERATOR	3	2	1
		677.685-050	STONE SPLITTER	2	2	1
47.0105	INDUSTRIAL ELECTRONICS	721.484-018	INSULATION CUTTER AND FORMER	3	2	2
47.0107	MOTOR REPAIR	721.484-018	INSULATION CUTTER AND FORMER	3	2	2
47.0404	MUSICAL INSTRUMENT REPAIR	730.686-010	CUTTER, WOODWIND REEDS	2	1	1
47.0407	SPORTING GOODS EQUIPMENT REPAIR	690.685-370	SKI-TOP TRIMMER	2	1	1
		732.685-014	FEATHER SAWYER	2	1	1
		732.685-038	TRIMMING-MACHINE OPERATOR	1	1	1
47.0408	WATCH REPAIR	615.685-014	CLEARANCE CUTTER	2	1	1
		690.685-366	SIZING-MACHINE TENDER	2	1	1
48.0202	BOOKBINDING	640.685-010	BOOK TRIMMER	2	1	1
		659.685-014	SAMPLE-BOOK MAKER	2	1	1
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.685-010	CUTTER	2	1	1
48.0304	SHOE AND BOOT REPAIR	690.682-086	TRIMMER, MACHINE 2	3	2	2
		690.685-126	DESKIDDING-MACHINE OPERATOR	2	1	2
		690.685-198	GROOVER AND TURNER	2	1	2
		690.685-214	HEEL GOUGER	2	1	2
		690.685-242	INSOLE BEVELER	2	1	1
		690.685-274	LIP-OF-SHANK CUTTER	2	1	1
		690.685-298	NICKER	2	1	2

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OCCUPATION: 7678 SLICING AND CUTTING MACHINE OPERATORS AND TENDERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		690.685-338	ROUNDER	2 1 2	30 TO 90 DAYS
		690.685-434	TRIMMER, MACHINE 1	2 1 1	30 TO 90 DAYS
		699.682-022	DIE CUTTER	3 2 3	THREE TO SIX MONTHS
		699.685-014	CUTTER, MACHINE 2	2 1 2	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	521.685-098	CUTTER, FROZEN MEAT	2 1 1	UP TO 30 DAYS
		521.685-170	HASHER OPERATOR	2 1 1	UP TO 30 DAYS
		521.685-306	SLICING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		525.685-010	BAND-SAW OPERATOR	2 1 1	UP TO 30 DAYS
48.0504	METAL FABRICATION	615.685-014	CLEARANCE CUTTER	2 1 1	UP TO 30 DAYS
48.0505	METAL PATTERNMAKING	693.382-010	LAST-PATTERN GRADER	4 3 3	TWO TO FOUR YEARS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	677.682-014	REFRACTORY-GRINDER OPERATOR	2 2 1	UP TO 30 DAYS
		677.685-030	GLASS CUT-OFF TENDER	2 2 2	UP TO 30 DAYS
48.0604	PLASTICS	555.585-010	CUTTER OPERATOR	3 1 1	30 TO 90 DAYS
48.0703	MILLWORK AND CABINET MAKING	663.685-010	BLOCK-SPLITTER OPERATOR	2 1 1	30 TO 90 DAYS
		677.682-010	HEAD-SAW OPERATOR, INSULATION BOARD	3 2 1	ONE TO TWO YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.662-014	ROCK-DRILL OPERATOR 2	3 1 1	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	677.682-022	STONECUTTER, MACHINE	3 2 1	ONE TO TWO YEARS

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OCCUPATION: 7679

MACHINE OPERATORS AND TENDERS, N.E.C.

These workers operate or tend one or more machines to process products or materials. They work in a wide variety of industries. Their jobs range from cleaning rock used in fertilizers to pumping beer to different sections of a brewery. They may work with food, paper, mineral, glass, rubber, leather, or other types of materials. Typically, they do such things as: operate machine controls; clean, oil, and adjust machinery; load, thread, or pump materials into machines and watch for processing problems.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	511.462-010	CONCENTRATOR OPERATOR	4 3 3	TWO TO FOUR YEARS
		511.482-018	DUST-COLLECTOR OPERATOR	3 1 1	30 TO 90 DAYS
		520.685-042	CAKE STRIPPER	2 1 1	UP TO 30 DAYS
		520.686-038	TAMALE-MACHINE FEEDER	1 1 1	UP TO 30 DAYS
		521.362-018	REFINERY OPERATOR	4 3 3	TWO TO FOUR YEARS
		521.462-010	REFINERY OPERATOR, ASSISTANT	3 2 2	ONE TO TWO YEARS
		521.687-090	NUT STEAMER	2 1 1	UP TO 30 DAYS
		522.362-010	YEAST DISTILLER	3 2 3	THREE TO SIX MONTHS
		522.382-010	COTTAGE-CHEESE MAKER	3 2 3	THREE TO SIX MONTHS
		522.382-014	FERMENTATION OPERATOR	4 2 3	SIX TO 12 MONTHS
		522.382-022	MASH-TUB-COOKER OPERATOR	4 2 3	SIX TO 12 MONTHS
		522.382-034	SUGAR BOILER	3 2 3	ONE TO TWO YEARS
		522.482-010	MASHER	3 2 3	THREE TO SIX MONTHS
		522.682-010	KETTLE OPERATOR	3 2 3	THREE TO SIX MONTHS
		522.682-014	ORDERING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		522.685-014	BREWERY CELIAR WORKER	2 1 1	UP TO 30 DAYS
		522.685-018	BRINE MAKER 1	2 2 2	30 TO 90 DAYS
		522.685-066	FISH SMOKER	2 1 2	30 TO 90 DAYS
		522.685-094	STEAM-CONDITIONER OPERATOR	2 1 1	UP TO 30 DAYS
		523.385-010	PRESSURE-TANK OPERATOR	2 1 1	30 TO 90 DAYS
		523.562-010	DIFFUSER OPERATOR	3 2 3	THREE TO SIX MONTHS
		523.585-010	BUTTER LIQUEFIER	2 2 2	30 TO 90 DAYS
		523.685-014	BLANCHING-MACHINE OPERATOR	2 2 2	30 TO 90 DAYS
		523.685-034	COOKER, MEAL	2 2 1	30 TO 90 DAYS
		523.685-062	DRIER OPERATOR	1 1 1	UP TO 30 DAYS
		524.685-038	MEXICAN-FOOD-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		526.382-018	CONVERTER OPERATOR	3 2 1	THREE TO SIX MONTHS
		526.485-010	WORT EXTRACTOR	3 1 1	30 TO 90 DAYS
		526.665-014	KETTLE TENDER	2 1 1	UP TO 30 DAYS
		526.682-014	COOK, DOG-AND-CAT FOOD	3 2 2	THREE TO SIX MONTHS
		526.685-022	COOKER	2 1 2	30 TO 90 DAYS
		526.685-034	PAN GREASER, MACHINE	1 1 1	UP TO 30 DAYS
		526.685-058	THERMOSCREW OPERATOR	2 1 1	30 TO 90 DAYS
		529.382-014	CHOCOLATE-PRODUCTION-MACHINE OPERATOR	4 3 3	ONE TO TWO YEARS

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OCCUPATION: 7679 MISC MACHINE OPERATORS AND TENDERS, NEC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M L	
	529.382-022 GELATIN MAKER, UTILITY	3 1 2	ONE TO TWO YEARS
	529.382-026 HYDROGENATION OPERATOR	3 2 2	THREE TO SIX MONTHS
	529.485-018 DRIER, BELT CONVEYOR	3 1 2	30 TO 90 DAYS
	529.485-022 MATURITY CHECKER	3 3 2	UP TO 30 DAYS
	529.565-010 SUGAR CONTROLLER	2 2 2	30 TO 90 DAYS
	529.585-014 TANK TENDER	3 2 2	30 TO 90 DAYS
	529.665-018 WET-AND-DRY-SUGAR-BIN OPERATOR	2 1 1	30 TO 90 DAYS
	529.682-018 DEPOSITING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
	529.685-022 BLENDER-CONVEYOR OPERATOR	2 1 2	UP TO 30 DAYS
	529.685-030 BRINE-TANK TENDER	2 1 1	UP TO 30 DAYS
	529.685-034 BULKER, CUT TOBACCO	1 1 1	UP TO 30 DAYS
	529.685-046 CAN-CONVEYOR FEEDER	2 1 1	UP TO 30 DAYS
	529.685-050 CHAR-CONVEYOR TENDER	2 1 1	UP TO 30 DAYS
	529.685-058 CIGAR-HEAD PIERCER	2 1 1	UP TO 30 DAYS
	529.685-062 CIGARETTE-FILTER-MAKING-MACHINE OPE	2 1 1	30 TO 90 DAYS
	529.685-066 CIGARETTE-MAKING-MACHINE OPERATOR	3 1 1	30 TO 90 DAYS
	529.685-070 COLORER, CITRUS FRUIT	2 1 1	UP TO 30 DAYS
	529.685-086 DECAY-CONTROL OPERATOR	2 1 1	UP TO 30 DAYS
	529.685-098 DRIER OPERATOR, DRUM	2 1 2	UP TO 30 DAYS
	529.685-106 EXPPELLER OPERATOR	2 1 1	THREE TO SIX MONTHS
	529.685-122 FISH-CAKE MAKER	2 1 1	THREE TO SIX MONTHS
	529.685-130 FLAVOR ROOM WORKER	3 2 3	THREE TO SIX MONTHS
	529.685-142 HORSE RADISH MAKER	2 1 1	UP TO 30 DAYS
	529.685-166 MEAT BLENDER	2 2 2	UP TO 30 DAYS
	529.685-170 MOISTURE-MACHINE TENDER	2 1 1	UP TO 30 DAYS
	529.685-178 PEANUT-BUTTER MAKER	2 1 1	THREE TO SIX MONTHS
	529.685-206 RESERVE OPERATOR	2 1 1	30 TO 90 DAYS
	529.685-214 SHELLFISH-PROCESSING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
	529.685-218 SPICE FUMIGATOR	3 2 2	UP TO 30 DAYS
	529.685-222 SPREADER OPERATOR, AUTOMATIC	1 1 1	UP TO 30 DAYS
	529.685-242 TANK PUMPER, PANELBOARD	2 1 1	30 TO 90 DAYS
	529.685-246 TAPPER	2 2 1	UP TO 30 DAYS
	529.687-158 MELT-HOUSE DRAG OPERATOR	2 1 1	30 TO 90 DAYS
	532.362-010 DIGESTER OPERATOR	3 3 3	ONE TO TWO YEARS
	532.685-014 COOKER TENDER	2 1 1	30 TO 90 DAYS
	532.685-022 MOISTURE-CONDITIONER OPERATOR	2 2 1	THREE TO SIX MONTHS
	533.685-030 THRASHER FEEDER	2 1 1	UP TO 30 DAYS
	534.662-010 BACK TENDER, PAPER MACHINE	3 3 3	ONE TO TWO YEARS
	534.665-010 SCREEN TENDER	2 1 2	30 TO 90 DAYS
	534.682-030 CREPING-MACHINE OPERATOR	3 2 2	30 TO 90 DAYS
	534.682-034 STRAP-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
	534.685-014 FRICTION-PAINT-MACHINE TENDER	2 2 1	UP TO 30 DAYS

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OCCUPATION: 7679 MISC MACHINE OPERATORS AND TENDERS, NEC

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		534.685-018	OILING-MACHINE OPERATOR	2	1 1	UP TO 30 DAYS
		534.685-034	WET-END HELPER	2	2 2	UP TO 30 DAYS
		539.362-010	CYLINDER-MACHINE OPERATOR	3	2 3	ONE TO TWO YEARS
		539.362-014	FOURDRINIER-MACHINE TENDER	3	2 3	ONE TO TWO YEARS
		539.362-018	SLURRY MIXER	3	2 2	THREE TO SIX MONTHS
		539.685-034	WINDER HELPER	2	2 1	30 TO 90 DAYS
		543.685-010	BULLET-LUBRICANT MIXER	2	2 1	UP TO 30 DAYS
		549.382-010	NATURAL-GAS-TREATING-UNIT OPERATOR	3	3 2	ONE TO TWO YEARS
		549.662-010	BRIQUETTE-MACHINE OPERATOR	3	2 2	THREE TO SIX MONTHS
		549.685-022	REELER	2	2 1	30 TO 90 DAYS
		550.663-010	FORMULA WEIGHER	2	1 2	30 TO 90 DAYS
		551.685-010	BAND TUMBLER	1	1 1	UP TO 30 DAYS
		551.685-142	SULFATE DRIER-MACHINE OPERATOR	2	1 1	THREE TO SIX MONTHS
		551.685-162	WRINGER OPERATOR	2	1 1	UP TO 30 DAYS
		553.585-014	DRY-HOUSE ATTENDANT	2	1 1	30 TO 90 DAYS
		553.585-018	DRYING-ROOM ATTENDANT	1	1 1	UP TO 30 DAYS
		553.585-022	THERMAL MOLDER	2	1 2	30 TO 90 DAYS
		553.585-026	TUMBLER OPERATOR	2	1 1	UP TO 30 DAYS
		553.665-018	COOK	3	2 2	30 TO 90 DAYS
		553.665-022	COOK TENDER	2	1 1	UP TO 30 DAYS
		553.685-062	FIRE-HOSE CURER	2	1 1	UP TO 30 DAYS
		553.685-070	KETTLE WORKER	3	2 2	THREE TO SIX MONTHS
		553.685-078	MILLED-RUBBER TENDER	2	1 1	UP TO 30 DAYS
		553.685-102	TIRE MOLDER	2	1 1	30 TO 90 DAYS
		554.682-010	CALENDER-LET-OFF OPERATOR	3	2 1	THREE TO SIX MONTHS
		554.682-022	ROOFING-MACHINE OPERATOR	3	1 2	THREE TO SIX MONTHS
		554.685-022	LINK REROLL TENDER	2	1 1	UP TO 30 DAYS
		555.685-054	SECOND OPERATOR, MILL TENDER	3	1 1	30 TO 90 DAYS
		556.362-010	ARCH-CUSHION-PRESS OPERATOR	3	2 2	THREE TO SIX MONTHS
		558.585-010	CATALYTIC-CONVERTER-OPERATOR HELPER	2	1 1	SIX TO 12 MONTHS
		558.585-022	CUPROUS-CHLORIDE HELPER	2	1 2	UP TO 30 DAYS
		558.585-042	TWITCHELL OPERATOR	2	2 2	30 TO 90 DAYS
		558.685-022	CELL-TENDER HELPER	2	2 2	THREE TO SIX MONTHS
		558.685-042	LEAD-OXIDE-MILL TENDER	2	2 1	30 TO 90 DAYS
		559.362-030	ROLL TENDER	3	2 2	SIX TO 12 MONTHS
		559.482-010	COMPOSITION-ROLL MAKER AND CUTTER	3	2 2	THREE TO SIX MONTHS
		559.585-010	DRY-HOUSE TENDER	2	2 2	UP TO 30 DAYS
		559.585-014	GREASE-AND-TALLOW PUMPER	2	1 1	UP TO 30 DAYS
		559.665-010	BONE-PROCESS OPERATOR	2	2 2	THREE TO SIX MONTHS
		559.665-034	SPLASH-LINE OPERATOR	2	2 2	THREE TO SIX MONTHS
		559.665-038	TANK-FARM ATTENDANT	3	3 2	THREE TO SIX MONTHS
		559.666-010	TOWER ATTENDANT	2	1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		559.682-014	CASTING-AND-CURING OPERATOR	3 2 2	SIX TO 12 MONTHS
		559.682-030	LACQUER MAKER	3 2 2	SIX TO 12 MONTHS
		559.682-034	LATEX-RIBBON-MACHINE OPERATOR	3 2 2	ONE TO TWO YEARS
		559.682-042	RUBBER-MILL OPERATOR	3 1 2	SIX TO 12 MONTHS
		559.685-026	BRINE-WELL OPERATOR	3 2 2	THREE TO SIX MONTHS
		559.685-046	DOPE-DRY-HOUSE OPERATOR	2 1 1	UP TO 30 DAYS
		559.685-050	DRIER-AND-PULVERIZER TENDER	2 1 1	UP TO 30 DAYS
		559.685-054	DUSTING-AND-BRUSHING-MACHINE OPERAT	2 1 1	UP TO 30 DAYS
		559.685-058	EFFERVESCENT-SALTS COMPOUNDER	3 2 2	THREE TO SIX MONTHS
		559.685-066	FABRIC NORMALIZER	2 1 1	30 TO 90 DAYS
		559.685-082	FORMULA WEIGHER	3 2 2	THREE TO SIX MONTHS
		559.685-086	FRAME STRIPPER	2 1 1	UP TO 30 DAYS
		559.685-094	FUSE MAKER	2 1 2	30 TO 90 DAYS
		559.685-098	GLUE-MILL OPERATOR	2 2 1	30 TO 90 DAYS
		559.685-102	GOLF-BALL-COVER TREATER	2 2 2	UP TO 30 DAYS
		559.685-106	IMPREGNATOR OPERATOR	2 2 2	THREE TO SIX MONTHS
		559.685-114	LATEX SPOOLER	2 1 1	THREE TO SIX MONTHS
		559.685-122	LINSEED-OIL-PRESS TENDER	2 2 1	30 TO 90 DAYS
		559.685-130	PIGMENT PROCESSOR	3 2 2	30 TO 90 DAYS
		559.685-162	SCREENER-PERFUMER	2 1 1	30 TO 90 DAYS
		559.685-178	TUMBLER-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		559.686-026	LABORER, GENERAL	1 1 1	UP TO 30 DAYS
		562.682-010	HUMIDIFIER OPERATOR	3 2 2	THREE TO SIX MONTHS
		574.585-010	PAPERHANGER	2 2 1	UP TO 30 DAYS
		574.665-010	FIBERGLASS-BONDING-MACHINE TENDER	2 2 2	UP TO 30 DAYS
		575.685-082	TEST-SKEIN WINDER	3 2 3	30 TO 90 DAYS
		579.665-010	BRAKE-LINING FINISHER, ASBESTOS	3 1 1	30 TO 90 DAYS
		579.665-018	WIRE SETTER	2 1 1	UP TO 30 DAYS
		579.685-010	DRIER-AND-GRINDER TENDER	3 1 1	THREE TO SIX MONTHS
		582.482-010	COLORER, HIDES AND SKINS	3 2 2	THREE TO SIX MONTHS
		590.365-010	IRON-PLASTIC BULLET MAKER	3 2 3	30 TO 90 DAYS
		590.662-010	CONTROLS OPERATOR, MOLDED GOODS	3 2 3	SIX TO 12 MONTHS
		590.662-014	MECHANICAL OXIDIZER	3 3 3	SIX TO 12 MONTHS
		590.665-018	WINDER OPERATOR	2 1 1	UP TO 30 DAYS
		590.685-042	IRONER	2 1 1	UP TO 30 DAYS
		590.685-058	WAD LUBRICATOR	2 1 2	UP TO 30 DAYS
		599.685-010	BLOCK SEALER	2 1 2	UP TO 30 DAYS
		599.685-078	POLISHER	2 1 2	UP TO 30 DAYS
		599.685-086	SHREDDER TENDER, PEAT	2 2 2	UP TO 30 DAYS
		599.685-122	WATER TENDER	2 2 2	THREE TO SIX MONTHS
		609.685-010	BALL SORTER	2 1 1	UP TO 30 DAYS
		640.385-010	RIBBON-HANKING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		640.682-014	CORE WINDING OPERATOR	3 2 2	SIX TO 12 MONTHS
		640.685-018	CARBON-PAPER INTERLEAFER	2 2 1	UP TO 30 DAYS
		640.685-042	PAPER-CORE-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		640.685-046	PAPER-REEL OPERATOR	2 2 1	30 TO 90 DAYS
		640.685-050	PROCESS-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		640.685-054	REELER	2 1 1	UP TO 30 DAYS
		640.685-058	REWINDER OPERATOR	2 1 1	30 TO 90 DAYS
		640.685-062	ROLL RECLAIMER	2 1 1	UP TO 30 DAYS
		640.685-082	TIGHTENING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		641.662-014	TUBE-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		641.685-026	CARTON-FORMING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		641.685-070	SCORER	2 1 1	UP TO 30 DAYS
		649.582-010	PARTITION-ASSEMBLY-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		649.685-010	AUTOMATIC-MACHINE ATTENDANT	2 1 1	UP TO 30 DAYS
		649.685-014	BAG-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		649.685-018	BINDERY WORKER	2 1 1	30 TO 90 DAYS
		649.685-022	BOTTOMING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		649.685-030	COUNTING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		649.685-034	DRILL-PUNCH OPERATOR	2 1 1	UP TO 30 DAYS
		649.685-054	KNOTTING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		649.685-058	LACE-PAPER-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		649.685-062	LAUNDRY-BAG-PUNCH OPERATOR	1 1 1	UP TO 30 DAYS
		649.685-066	LAYBOY TENDER	2 1 1	UP TO 30 DAYS
		649.685-070	MACHINE OPERATOR, GENERAL	2 1 1	30 TO 90 DAYS
		649.685-074	MATCHBOOK ASSEMBLER	2 1 1	30 TO 90 DAYS
		649.685-102	SALVAGE WINDER AND INSPECTOR	2 2 2	30 TO 90 DAYS
		649.685-114	STITCHER OPERATOR	2 1 1	THREE TO SIX MONTHS
		649.685-118	TAG-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		676.685-010	DRILLER, BRAKE LINING	2 1 1	UP TO 30 DAYS
		681.685-050	FLOOR WINDER	3 1 2	THREE TO SIX MONTHS
		683.685-026	PATTERN DUPLICATOR	2 1 2	UP TO 30 DAYS
		689.582-010	PUNCHER	3 1 2	THREE TO SIX MONTHS
		690.585-010	MILL-ROLL REWINDER	2 1 2	THREE TO SIX MONTHS
		690.682-030	EMBOSSER	3 2 3	THREE TO SIX MONTHS
		690.682-066	RING-ROLLING-MACHINE OPERATOR	3 2 3	THREE TO SIX MONTHS
		690.685-014	ASSEMBLY-PRESS OPERATOR	2 1 2	UP TO 30 DAYS
		690.685-030	BAND-MACHINE OPERATOR	2 2 2	THREE TO SIX MONTHS
		690.685-042	BRANDING-MACHINE TENDER	2 1 1	30 TO 90 DAYS
		690.685-066	BUTTON-FACING-MACHINE OPERATOR	2 1 2	UP TO 30 DAYS
		690.685-078	CENTER-PUNCH OPERATOR	1 1 1	UP TO 30 DAYS
		690.685-422	TIRE BUFFER	3 2 2	30 TO 90 DAYS
		690.685-438	TUBE MOLDER, FIBERGLASS	2 1 2	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE				
		690.685-442	TUBE SPLICER	2	1	1	30 TO 90 DAYS
		690.685-450	V-BELT COVERER	2	1	1	UP TO 30 DAYS
		690.685-454	V-BELT FINISHER	2	1	1	30 TO 90 DAYS
		691.682-018	INSULATING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		691.685-010	ARMORING-MACHINE OPERATOR	2	1	2	UP TO 30 DAYS
		691.685-014	LAGGING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		691.685-026	SPOOLING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		692.662-018	WAFFER-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		692.665-010	BRAIDING-MACHINE TENDER	2	1	2	30 TO 90 DAYS
		692.665-014	PUNCH-PRESS OPERATOR	2	1	2	UP TO 30 DAYS
		692.665-018	DRY-CELL-ASSEMBLY-MACHINE TENDER	3	2	3	THREE TO SIX MONTHS
		692.682-022	BROOM STITCHER	3	2	2	THREE TO SIX MONTHS
		692.682-030	COREMAKING-MACHINE OPERATOR	3	2	2	THREE TO SIX MONTHS
		692.682-038	FILLING-AND-STAPLING-MACHINE OPERAT	3	2	2	THREE TO SIX MONTHS
		692.682-066	SWEEPER-BRUSH MAKER, MACHINE	3	2	2	THREE TO SIX MONTHS
		692.685-010	ABRASIVE-BAND WINDER	2	1	1	UP TO 30 DAYS
		692.685-014	ADHESIVE-BANDAGE-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		692.685-018	AIR-HOLE DRILLER	2	1	1	UP TO 30 DAYS
		692.685-042	CAPPING-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		692.685-046	CELL TUBER, MACHINE	2	1	1	UP TO 30 DAYS
		692.685-066	DEICER-ELEMENT WINDER, MACHINE	2	2	2	THREE TO SIX MONTHS
		692.685-082	FILM SPOOLER	2	1	1	UP TO 30 DAYS
		692.685-090	GARLAND-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		692.685-102	KICK-PRESS OPERATOR	2	1	1	UP TO 30 DAYS
		692.685-122	MAT-MAKING MACHINE TENDER	2	2	2	UP TO 30 DAYS
		692.685-126	MOUNTER 2	1	1	1	30 TO 90 DAYS
		692.685-134	POULTICE-MACHINE OPERATOR	2	1	2	THREE TO SIX MONTHS
		692.685-158	SEALER, DRY CELL	2	1	1	30 TO 90 DAYS
		692.685-178	SLINGER, SEQUINS	2	1	2	UP TO 30 DAYS
		692.685-182	SORTER, MACHINE	2	1	1	UP TO 30 DAYS
		692.685-186	SPIRAL-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		692.685-190	SPUN-PASTE-MACHINE OPERATOR	2	1	2	UP TO 30 DAYS
		692.685-194	STAMPING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		692.685-202	STAPLING-MACHINE OPERATOR	2	1	2	UP TO 30 DAYS
		692.685-214	TAPER, MACHINE	2	1	2	UP TO 30 DAYS
		692.685-226	TINSEL-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		692.685-234	TUBE WINDER, HAND	2	1	2	UP TO 30 DAYS
		692.685-242	WICKER, MOLDED CANDLES	2	1	2	30 TO 90 DAYS
		692.685-246	WINDER	2	1	2	UP TO 30 DAYS
		692.685-274	KEYMODULE-ASSEMBLY-MACHINE TENDER	2	2	2	UP TO 30 DAYS
		692.687-010	SPLICER	1	1	1	UP TO 30 DAYS
		694.665-010	SHOTGUN-SHELL-LOADING-MACHINE OPERA	2	2	2	30 TO 90 DAYS

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CODE	TITLE	CODE	TITLE				
		694.685-042	PRIMER-INSERTING-MACHINE OPERATOR	2	1	2	UP TO 30 DAYS
		709.685-010	GOLD RECLAIMER	2	1	2	30 TO 90 DAYS
		716.685-010	BLOCKING-MACHINE TENDER	2	1	2	30 TO 90 DAYS
		732.685-026	MACHINE SNELLER	2	1	1	UP TO 30 DAYS
		733.685-014	FILLING-MACHINE OPERATOR	2	2	2	UP TO 30 DAYS
		733.685-022	RIBBON WINDER	2	2	2	30 TO 90 DAYS
		733.685-034	TIPPING-MACHINE OPERATOR	2	2	2	UP TO 30 DAYS
		734.685-010	STAMPER	2	1	1	UP TO 30 DAYS
		737.685-010	GAGE-AND-WEIGH-MACHINE OPERATOR	2	1	2	30 TO 90 DAYS
		737.685-018	WAX POURER	2	1	1	UP TO 30 DAYS
		739.664-010	CANDYMAKER	2	1	1	THREE TO SIX MONTHS
		739.685-014	BRUSH MAKER, MACHINE	2	1	1	UP TO 30 DAYS
		739.685-026	MOP MAKER	2	1	1	UP TO 30 DAYS
		739.685-038	STACKING-MACHINE OPERATOR 2	2	1	1	UP TO 30 DAYS
		739.685-042	STEM-PROCESSING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		739.685-058	WREATH MACHINE TENDER	2	1	1	UP TO 30 DAYS
		750.384-010	TIRE BUILDER, AUTOMOBILE	3	2	2	30 TO 90 DAYS
		750.685-010	SQUEEGEE TENDER	2	1	1	30 TO 90 DAYS
		750.685-014	TIRE RECAPPER	2	1	1	THREE TO SIX MONTHS
		752.684-050	SKIN FORMER	2	1	1	30 TO 90 DAYS
		754.685-010	TAB-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		759.664-018	ROLLER MAKER	3	1	1	THREE TO SIX MONTHS
		759.684-018	BELT-BUILDER HELPER	2	1	1	30 TO 90 DAYS
		764.684-010	BARREL BRANDER	2	1	1	UP TO 30 DAYS
		772.482-010	GLASS-BLOWING-LATHE OPERATOR	3	2	3	ONE TO TWO YEARS
		774.382-010	POTTERY-MACHINE OPERATOR	3	2	2	SIX TO 12 MONTHS
		789.687-162	SAMPLE FINISHER	1	1	1	UP TO 30 DAYS
		899.682-010	DIVER PUMPER	3	1	1	THREE TO SIX MONTHS
		920.685-102	WRAPPER	2	1	2	30 TO 90 DAYS
		962.665-010	DUBBING-MACHINE OPERATOR	3	1	1	30 TO 90 DAYS
10.0105	SOUND RECORDING TECHNOLOGY	*962.665-010	DUBBING-MACHINE OPERATOR	3	1	1	30 TO 90 DAYS
17.0304	CLINICAL LABORATORY AIDE	599.585-010	STERILIZER	3	2	3	30 TO 90 DAYS
17.0502	CENTRAL SUPPLY TECHNOLOGY	599.585-010	STERILIZER	3	2	3	30 TO 90 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	784.684-058	SIZER, MACHINE	2	1	1	UP TO 30 DAYS
		789.685-010	ORNAMENT SETTER	2	1	2	30 TO 90 DAYS
20.0402	BAKING	526.682-022	DOUGHNUT-MACHINE OPERATOR	3	2	3	THREE TO SIX MONTHS
		526.685-038	PIE MAKER, MACHINE	3	1	1	THREE TO SIX MONTHS

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20.0406 FOOD SERVICE	522.685-034 CORN COOKER	2 2 2 UP TO 30 DAYS
	526.382-014 CONFECTIONERY COOKER	4 2 3 TWO TO FOUR YEARS
	526.665-010 COOKER, PROCESS CHEESE	3 2 2 30 TO 90 DAYS
	526.682-018 COOK, SIRUP MAKER	3 2 2 THREE TO SIX MONTHS
	526.685-014 COOK, FRY, DEEP FAT	2 1 1 UP TO 30 DAYS
	526.685-018 COOK, VACUUM KETTLE	2 1 1 UP TO 30 DAYS
	526.685-042 POPCORN-CANDY MAKER	2 2 1 30 TO 90 DAYS
	526.685-046 POTATO-CHIP FRIER	2 1 1 30 TO 90 DAYS
	526.685-050 POTATO-PANCAKE FRIER	2 1 1 UP TO 30 DAYS
	529.385-010 NOODLE MAKER	2 1 2 30 TO 90 DAYS
529.482-022 SIRUP MAKER	3 2 2 SIX TO 12 MONTHS	
46.0102 BRICKMASONRY, BLOCK, AND STONEMASONRY	676.682-014 STONE DRILLER	3 2 2 THREE TO SIX MONTHS
	677.685-042 SPLITTER OPERATOR	2 1 1 UP TO 30 DAYS
	679.685-018 THERMAL-SURFACING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
46.0402 CONCRETE PLACING AND FINISHING	575.565-010 LINING-MACHINE OPERATOR	2 1 1 UP TO 30 DAYS
47.0102 BUSINESS MACHINE REPAIR	692.662-022 WIRE-WRAPPING-MACHINE OPERATOR	3 2 3 THREE TO SIX MONTHS
47.0105 INDUSTRIAL ELECTRONICS	590.684-010 CERAMIC CAPACITOR PROCESSOR	2 2 2 30 TO 90 DAYS
	590.684-014 ELECTRONIC-COMPONENT PROCESSOR	2 2 2 30 TO 90 DAYS
	590.684-022 SEMICONDUCTOR PROCESSOR	2 2 2 30 TO 90 DAYS
	726.682-014 WIRE-WRAPPING-MACHINE OPERATOR	4 3 4 UP TO 30 DAYS
	726.685-010 MAGNETIC-TAPE WINDER	2 1 1 UP TO 30 DAYS
729.682-010 OPERATOR, CAVITY PUMP	3 2 3 THREE TO SIX MONTHS	
47.0202 COOLING AND REFRIGERATION	827.585-010 FOAM CHARGER	2 2 2 30 TO 90 DAYS
47.0203 HEATING AND AIR CONDITIONING	950.485-010 HUMIDIFIER ATTENDANT	3 2 2 ONE TO TWO YEARS
	950.585-010 VENTILATION EQUIPMENT TENDER	3 2 3 THREE TO SIX MONTHS
47.0404 MUSICAL INSTRUMENT REPAIR	730.685-010 LOOPER	2 1 2 30 TO 90 DAYS
47.0407 SPORTING GOODS EQUIPMENT REPAIR	731.685-018 TIRE SETTER	2 1 1 UP TO 30 DAYS
	732.685-022 GUIDE-BASE WINDER, MACHINE	2 1 1 UP TO 30 DAYS
	732.685-030 SINKER WINDER	2 1 1 UP TO 30 DAYS
47.0408 WATCH REPAIR	715.682-022 TAPPER, BALANCE-WHEEL SCREW HOLE	3 2 2 30 TO 90 DAYS
47.0504 PUMPING PLANTS	549.362-010 STILL-PUMP OPERATOR	3 3 2 SIX TO 12 MONTHS

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CODE	TITLE	CODE	TITLE	R M I	
		549.685-014	GRAPHITE PAN-DRIER TENDER	2 2 1	THREE TO SIX MONTHS
48.0202	BOOKBINDING	649.685-090	PERFORATING-MACHINE OPERATOR	2 1 1	THREE TO SIX MONTHS
		692.685-146	SADDLE-AND-SIDE WIRE STITCHER	2 1 1	UP TO 30 DAYS
48.0203	COMMERCIAL ART	979.684-022	MAP-AND-CHART MOUNTER	3 2 2	SIX TO 12 MONTHS
48.0208	PRINTING PRESS OPERATIONS	979.682-018	LEAF STAMPER	2 1 1	30 TO 90 DAYS
48.0304	SHOE AND BOOT REPAIR	690.682-018	BED LASTER	3 2 2	SIX TO 12 MONTHS
		690.682-070	SOLE-CONFORMING-MACHINE OPERATOR	3 2 2	THREE TO SIX MONTHS
		690.685-010	ASSEMBLER FOR PULLER-OVER, MACHINE	2 1 2	30 TO 90 DAYS
		690.685-018	BACK-STRIP-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		690.685-034	BOTTOM PRESSER	2 1 2	UP TO 30 DAYS
		690.685-046	BUFFER	2 1 1	30 TO 90 DAYS
		690.685-054	BUFFER, INFLATED-PAD	2 1 1	30 TO 90 DAYS
		690.685-058	BURNISHER	1 1 1	30 TO 90 DAYS
		690.685-082	CHANNEL OPENER, OUTSOLES	1 1 1	UP TO 30 DAYS
		690.685-102	COUNTER MOLDER	3 1 2	30 TO 90 DAYS
		690.685-106	COUNTER ROLLER	2 1 1	UP TO 30 DAYS
		690.685-110	CUT-OUT-AND-MARKING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		690.685-146	EDGE SETTER	2 1 2	30 TO 90 DAYS
		690.685-150	EDGE TRIMMER	2 1 1	THREE TO SIX MONTHS
		690.685-158	EMBOSSER	2 1 2	UP TO 30 DAYS
		690.685-162	FASTENER, MACHINE	2 1 2	UP TO 30 DAYS
		690.685-166	FEATHEREDGER AND REDUCER, MACHINE	2 1 2	UP TO 30 DAYS
		690.685-186	FOREPART LASTER	2 1 2	UP TO 30 DAYS
		690.685-218	HEEL PRICKER	2 1 2	30 TO 90 DAYS
		690.685-222	HEEL SCORER	2 1 2	UP TO 30 DAYS
		690.685-230	HEEL-SEAT LASTER, MACHINE	2 1 2	30 TO 90 DAYS
		690.685-234	INKER, MACHINE	2 1 2	UP TO 30 DAYS
		690.685-238	INSEAM TRIMMER	2 1 2	UP TO 30 DAYS
		690.685-250	JOINT CUTTER, MACHINE	2 1 1	UP TO 30 DAYS
		690.685-254	LACER 2	2 1 2	UP TO 30 DAYS
		690.685-270	LIP CUTTER AND SCORER	2 1 2	UP TO 30 DAYS
		690.685-278	LUMITE INJECTOR	2 2 2	UP TO 30 DAYS
		690.685-282	MARKER, MACHINE	2 1 2	30 TO 90 DAYS
		690.685-314	POUNDER	2 1 1	30 TO 90 DAYS
		690.685-334	ROUGH-ROUNDER, MACHINE	2 1 2	30 TO 90 DAYS
		690.685-350	SEAM-RUBBING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		690.685-362	SIDE LASTER, STAPLE	2 1 2	30 TO 90 DAYS
		690.685-378	SKIVER, MACHINE	2 1 2	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7679 MISC MACHINE OPERATORS AND TENDERS, NEC (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
		690.685-382	SOLE LEVELER, MACHINE	2 1 2	UP TO 30 DAYS
		690.685-394	SPORT-SHOE-SPIKE ASSEMBLER	2 1 2	30 TO 90 DAYS
		690.685-398	STAMPING-MACHINE OPERATOR	2 1 2	THREE TO SIX MONTHS
		690.685-406	STRING LASTER	2 1 2	UP TO 30 DAYS
		690.685-410	TACK PULLER, MACHINE	1 1 1	UP TO 30 DAYS
		690.685-418	TIP FINISHER	2 1 2	UP TO 30 DAYS
		690.685-426	TOE FORMER, STITCHDOWNS	2 1 1	30 TO 90 DAYS
		690.685-470	WELT BEATER	2 1 2	30 TO 90 DAYS
		690.685-482	WELT WHEELER	2 1 2	UP TO 30 DAYS
		692.682-010	ANKLE-PATCH MOLDER	3 2 3	THREE TO SIX MONTHS
		788.685-010	FLARE BREAKER	1 1 1	UP TO 30 DAYS
		788.685-014	FOLDING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		788.685-018	STOCK FITTER	3 1 1	ONE TO TWO YEARS
		788.685-022	TONGUE PRESSER	2 1 1	UP TO 30 DAYS
		788.685-026	TOP FORMER	2 1 1	UP TO 30 DAYS
		788.685-030	WRAP TURNER	2 1 1	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	522.685-030	CASING-MACHINE OPERATOR	2 2 2	30 TO 90 DAYS
		522.685-086	PICKLE PUMPER	2 2 2	30 TO 90 DAYS
		522.687-034	PICKLER	2 1 1	UP TO 30 DAYS
		523.685-030	COOK-BOX FILLER	2 1 1	UP TO 30 DAYS
		525.682-010	SMOKER	3 2 1	THREE TO SIX MONTHS
		525.685-018	DEHAIRING-MACHINE TENDER	2 2 1	30 TO 90 DAYS
		525.685-026	POULTRY-PICKING MACHINE TENDER	2 1 1	UP TO 30 DAYS
		526.685-010	COOK	3 1 1	30 TO 90 DAYS
		526.685-062	TRIPE COOKER	2 1 1	UP TO 30 DAYS
		529.685-202	RENDERING-EQUIPMENT TENDER	3 2 2	30 TO 90 DAYS
48.0502	FOUNDRY WORK	511.482-014	CRYOLITE-RECOVERY OPERATOR	3 2 2	SIX TO 12 MONTHS
		512.685-014	NOZZLE TENDER	2 1 2	30 TO 90 DAYS
		513.362-010	CALCINER OPERATOR	3 2 2	ONE TO TWO YEARS
		519.565-010	DIGESTION OPERATOR	2 1 1	30 TO 90 DAYS
		519.585-614	MUD BOSS	3 2 2	THREE TO SIX MONTHS
		519.665-010	GRANULATOR TENDER	2 1 1	THREE TO SIX MONTHS
		519.685-014	GROUT-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		553.685-110	WAX-POT TENDER	2 2 1	UP TO 30 DAYS
48.0504	METAL FABRICATION	692.682-062	STRING-WINDING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	575.664-010	CENTRIFUGAL SPINNER	2 1 1	UP TO 30 DAYS
		579.382-022	BLANKMAKER	3 3 3	ONE TO TWO YEARS
		673.666-014	STRIPPER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7679 MISC MACHINE OPERATORS AND TENDERS, NEC

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		674.382-010	GLASS-LATHE OPERATOR	3 2 3	THREE TO SIX MONTHS
		677.665-010	GLASS-UNLOADING-EQUIPMENT TENDER	2 1 1	UP TO 30 DAYS
		679.665-010	LEVEL-GLASS-FORMING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		679.685-010	MACHINE OPERATOR, CERAMICS	2 1 1	30 TO 90 DAYS
		679.685-014	PRODUCTION-MACHINE TENDER, GLASS CU	2 1 2	UP TO 30 DAYS
48.0604	PLASTICS	559.585-018	TANKROOM TENDER	2 1 2	30 TO 90 DAYS
		559.665-014	DRY-END OPERATOR	3 2 2	30 TO 90 DAYS
48.0702	FURNITURE MAKING	692.685-198	STAPLER, MACHINE	2 1 1	30 TO 90 DAYS
50.0202	CERAMICS	*774.382-010	POTTERY-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS

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OCCUPATION: 7700

FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS

These workers make, assemble, or process products using handtools or working by hand. They may weld or solder metal parts together or trim excess metal, using torches. Others may sew trimmings, paint toys, or shape molds from wax. Some workers assemble products. They may have a single, repetitive job on an assembly line or they may assemble an entire article. Others process products to be assembled by cleaning, painting, shaping, or soldering, for example.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7710

WELDERS AND SOLDERERS

These workers cut or fuse metal and plastic parts. They may use hand-held welding equipment, torches, or solder guns. They may fuse plastic sheets, weld metal parts together, or trim excess metal from products. Others use solder (a soft metal alloy) to join or bond components. They apply solder to surfaces to be joined, then heat the solder and hold the pieces together until the solder is cooled.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7714

WELDERS AND CUTTERS

These workers use hand-held welding equipment and torches to join or cut metal or plastic or parts. They do such things as fuse together plastic sheets, weld metal parts, or trim metal from objects. They may work in a shop, on an assembly line, or at construction sites. They follow blueprints, and work orders. They select the proper torch tips, connect fuel or power lines to torches, position parts to be cut or welded, and guide a flame or an electric arc along welding or cutting lines. They often use measuring devices to position and check their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	553.684-010	HEAT WELDER, PLASTICS	2	2 1	30 TO 90 DAYS
		613.667-010	LINER ASSEMBLER	2	1 1	30 TO 90 DAYS
15.0610	WELDING TECHNOLOGY	819.281-022	WELDER, EXPERIMENTAL	4	4 3	FOUR TO TEN YEARS
48.0508	WELDING	709.684-086	TORCH-STRAIGHTENER-AND HEATER	3	2 2	THREE TO SIX MONTHS
		727.684-022	LEAD BURNER	2	1 2	30 TO 90 DAYS
		810.384-010	WELDER APPRENTICE, ARC	4	4 3	SIX TO 12 MONTHS
		810.384-014	WELDER, ARC	4	4 3	SIX TO 12 MONTHS
		810.664-010	WELDER, GUN	2	2 2	UP TO 30 DAYS
		810.684-010	WELDER, TACK	3	2 2	SIX TO 12 MONTHS
		811.684-010	WELDER APPRENTICE, GAS	3	3 3	THREE TO SIX MONTHS
		811.684-014	WELDER, GAS	3	3 3	SIX TO 12 MONTHS
		813.684-010	BRAZER, ASSEMBLER	4	3 3	SIX TO 12 MONTHS
		816.364-010	ARC CUTTER	3	3 3	SIX TO 12 MONTHS
		816.464-010	THERMAL CUTTER, HAND 1	3	3 3	SIX TO 12 MONTHS
		816.684-010	THERMAL CUTTER, HAND 2	2	1 1	UP TO 30 DAYS
		819.281-010	LEAD BURNER	4	3 3	TWO TO FOUR YEARS
		819.281-014	LEAD-BURNER APPRENTICE	4	3 3	TWO TO FOUR YEARS
		819.361-010	WELDER-FITTER	4	3 3	TWO TO FOUR YEARS
		819.361-014	WELDER-FITTER APPRENTICE	4	3 3	TWO TO FOUR YEARS
		819.381-010	WELDER-ASSEMBLER	3	3 2	ONE TO TWO YEARS
		819.384-008	WELDER APPRENTICE, COMBINATION	4	3 3	ONE TO TWO YEARS
		819.384-010	WELDER, COMBINATION	4	3 3	ONE TO TWO YEARS
		819.684-010	WELDER, PRODUCTION LINE	2	2 2	UP TO 30 DAYS

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OCCUPATION: 7717

SOLDERERS AND BRAZERS

These workers use hand-held soldering or brazing equipment to join parts of metal products. They clamp parts together and apply solder with a torch. After the part has cooled they unclamp the part and inspect it. They also may dip parts in molten solder to bond them, or fill holes or seams with hot solder. They use flame torches and other heating devices. Some use devices that solder parts using sound waves, rather than heat. Some use hoists, drills, and other power tools to position and finish workpieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
47.0402	GUNSMITHING	736.684-038	SOLDERER, BARREL RIBS	2	1	1 30 TO 90 DAYS
48.0508	WELDING	736.684-038	SOLDERER, BARREL RIBS	2	1	1 30 TO 90 DAYS
		813.682-010	BRAZER, RESISTANCE	3	2	2 THREE TO SIX MONTHS
		813.684-018	SOLDERER-DIPPER	2	2	2 UP TO 30 DAYS
		813.684-022	SOLDERER, PRODUCTION LINE	2	2	2 UP TO 30 DAYS
		813.684-026	SOLDERER, TORCH 1	2	2	2 UP TO 30 DAYS
		813.684-030	SOLDERER, ULTRASONIC, HAND	2	2	2 30 TO 90 DAYS

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OCCUPATION: 7720

ASSEMBLERS

ASSEMBLERS put together parts of manufactured products. They may work with hundreds of other workers to assemble a single finished product. Many work on items that move past their work stations on conveyors. One worker may start nuts on bolts, while the next worker may tighten the nuts with a wrench. Other ASSEMBLERS do more delicate work. Some make entire products. Their work tools depend upon the type of products. Some use heavy cranes and power tools. Others use tweezers, tiny cutters, and magnifying lenses. Often, they read blueprints and use measuring devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	556.687-010	BOWLING-BALL-MOLD ASSEMBLER	2	1 1	UP TO 30 DAYS
		579.584-010	FIBERGLASS-CONTAINER-WINDING OPERAT	2	2 2	THREE TO SIX MONTHS
		692.685-118	LIGHT-BULB ASSEMBLER	2	1 1	UP TO 30 DAYS
		700.684-042	HOLLOW-HANDLE-KNIFE ASSEMBLER	2	1 1	UP TO 30 DAYS
		700.684-070	SILVERWARE ASSEMBLER	2	1 1	UP TO 30 DAYS
		700.687-010	BENCH WORKER, HOLLOW HANDLE	2	1 1	UP TO 30 DAYS
		701.684-018	LEVEL-VIAL SETTER	2	1 1	30 TO 90 DAYS
		701.687-010	ASSEMBLER	2	1 2	UP TO 30 DAYS
		706.684-018	ASSEMBLER, PRODUCT	3	2 2	30 TO 90 DAYS
		706.684-022	ASSEMBLER, SMALL PARTS	2	1 2	UP TO 30 DAYS
		706.684-030	ATOMIZER ASSEMBLER	2	1 1	UP TO 30 DAYS
		706.684-086	PLUMBING-HARDWARE ASSEMBLER	2	1 2	UP TO 30 DAYS
		706.684-106	WHEEL LACER AND TRUER	2	1 2	THREE TO SIX MONTHS
		706.685-014	WHEEL-TRUING MACHINE TENDER	2	2 2	UP TO 30 DAYS
		706.687-010	ASSEMBLER, PRODUCTION	2	1 1	UP TO 30 DAYS
		710.584-010	SCROLL ASSEMBLER	2	1 1	30 TO 90 DAYS
		710.664-010	BELLOWS CHARGER 1	3	1 1	30 TO 90 DAYS
		710.684-010	AGATE SETTER	3	1 2	THREE TO SIX MONTHS
		710.684-014	BELLOWS CHARGER 2	3	2 2	THREE TO SIX MONTHS
		710.684-038	SEALER	3	2 2	SIX TO 12 MONTHS
		711.684-010	ASSEMBLY LOADER	2	1 1	30 TO 90 DAYS
		711.684-014	CEMENTER	2	2 2	SIX TO 12 MONTHS
		712.681-026	SURGICAL-FORCEPS FABRICATOR	3	2 2	THREE TO SIX MONTHS
		712.684-010	ASSEMBLER, SURGICAL GARMENT	2	2 2	30 TO 90 DAYS
		712.684-022	GAS-MASK ASSEMBLER	2	1 1	THREE TO SIX MONTHS
		712.687-010	ASSEMBLER, HOSPITAL SUPPLIES	2	1 1	UP TO 30 DAYS
		713.384-010	ASSEMBLER, GOLD FRAME	2	1 2	UP TO 30 DAYS
		713.684-010	ASSEMBLER, CLIP-ON SUNGLASSES	2	1 1	30 TO 90 DAYS
		713.684-014	ASSEMBLER, MOLDED FRAMES	2	1 1	UP TO 30 DAYS
		713.684-034	MULTIFOCAL-LENS ASSEMBLER	2	1 2	30 TO 90 DAYS
		713.687-018	FINAL ASSEMBLER	1	1 1	UP TO 30 DAYS
		713.687-042	SUNGLASS-CLIP ATTACHER	2	1 1	UP TO 30 DAYS
		723.684-014	ASSEMBLER 1	3	2 2	30 TO 90 DAYS

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OCCUPATION: 7720 ASSEMBLERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		723.684-018	ASSEMBLER 2	2	1 2	UP TO 30 DAYS
		727.684-010	BATTERY ASSEMBLER	3	2 2	THREE TO SIX MONTHS
		727.684-014	BATTERY ASSEMBLER, PLASTIC	2	2 2	UP TO 30 DAYS
		727.684-026	PLATE ASSEMBLER, SMALL BATTERY	3	2 2	30 TO 90 DAYS
		727.684-030	SEALER 1	2	1 2	30 TO 90 DAYS
		727.687-022	ASSEMBLER, DRY CELL AND BATTERY	1	1 1	UP TO 30 DAYS
		727.687-038	BATTERY-PARTS ASSEMBLER	2	1 2	30 TO 90 DAYS
		727.687-042	CELL COVERER	2	1 1	UP TO 30 DAYS
		727.687-082	WAFER-LINE WORKER	2	1 1	UP TO 30 DAYS
		729.684-022	ELECTRIC-SIGN ASSEMBLER	3	2 2	30 TO 90 DAYS
		729.684-034	MOTOR-VEHICLE-LIGHT ASSEMBLER	2	1 1	30 TO 90 DAYS
		729.684-046	SPARK-PLUG ASSEMBLER	2	1 1	UP TO 30 DAYS
		731.684-018	TOY ASSEMBLER	2	2 2	30 TO 90 DAYS
		731.687-030	PUZZLE ASSEMBLER	2	1 1	UP TO 30 DAYS
		731.687-034	TOY ASSEMBLER	2	1 1	UP TO 30 DAYS
		733.684-010	PAINT-BRUSH MAKER	2	2 2	THREE TO SIX MONTHS
		733.684-018	STAMP MOUNTER	2	2 1	UP TO 30 DAYS
		733.685-010	ASSEMBLER	2	2 2	UP TO 30 DAYS
		733.687-010	ASSEMBLER, MARKING DEVICES	2	2 2	UP TO 30 DAYS
		733.687-014	ASSEMBLER, MECHANICAL PENCILS AND B	2	2 2	UP TO 30 DAYS
		733.687-030	DATER ASSEMBLER	2	1 2	UP TO 30 DAYS
		733.687-034	DESK-PEN-SET ASSEMBLER	2	1 1	UP TO 30 DAYS
		733.687-070	STAMP-PAD MAKER	2	1 1	UP TO 30 DAYS
		734.684-010	FEATHER SHAPER	2	1 2	UP TO 30 DAYS
		734.684-014	FEATHER-DUSTER WINDER	2	1 1	30 TO 90 DAYS
		734.687-014	ASSEMBLER	2	1 1	UP TO 30 DAYS
		734.687-018	ASSEMBLER	1	1 1	UP TO 30 DAYS
		734.687-074	SLIDE-FASTENER-CHAIN ASSEMBLER	2	1 1	UP TO 30 DAYS
		734.687-078	SLIDER ASSEMBLER	2	1 2	UP TO 30 DAYS
		734.687-090	STICKER	1	1 1	SHORT DEMONSTRATION
		736.684-034	GAS-CHECK-PAD MAKER	3	2 2	THREE TO SIX MONTHS
		737.587-014	FIREWORKS ASSEMBLER	2	1 1	UP TO 30 DAYS
		737.684-010	ASSEMBLER, MECHANICAL ORDNANCE	3	3 3	30 TO 90 DAYS
		737.684-014	BOMB LOADER	3	2 2	30 TO 90 DAYS
		737.684-018	FIREWORKS MAKER	3	1 2	ONE TO TWO YEARS
		737.684-022	FUSE ASSEMBLER	3	2 2	30 TO 90 DAYS
		737.684-030	POWDER WORKER, TNT	3	2 2	THREE TO SIX MONTHS
		73.684-034	PRODUCTION ASSEMBLER	2	2 2	30 TO 90 DAYS
		737.684-038	SHELL ASSEMBLER	2	1 2	SIX TO 12 MONTHS
		737.687-010	ASSEMBLER	2	1 1	UP TO 30 DAYS
		737.687-018	BLASTING-CAP ASSEMBLER	2	1 1	UP TO 30 DAYS
		737.687-022	BOOSTER ASSEMBLER	2	2 1	UP TO 30 DAYS

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OCCUPATION: 7720 ASSEMBLERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		737.687-038	DETONATOR ASSEMBLER	2 1 1	UP TO 30 DAYS
		737.687-042	EXPLOSIVE OPERATOR 1	2 2 2	30 TO 90 DAYS
		737.687-046	EXPLOSIVE OPERATOR 2	2 2 2	UP TO 30 DAYS
		737.687-070	LABORER, AMMUNITION ASSEMBLY 1	2 1 1	30 TO 90 DAYS
		737.687-074	LABORER, AMMUNITION ASSEMBLY 2	2 1 1	UP TO 30 DAYS
		737.687-098	PRIMER ASSEMBLER	2 1 1	30 TO 90 DAYS
		737.687-102	PRIMER CHARGER	2 1 1	30 TO 90 DAYS
		737.687-110	PROPELLANT-CHARGE-ZONE ASSEMBLER	2 1 1	30 TO 90 DAYS
		737.687-122	SCREW-EYE ASSEMBLER	1 1 1	SHORT DEMONSTRATION
		739.384-022	VENTILATOR	3 1 1	SIX TO 12 MONTHS
		739.684-034	CASE FINISHER	2 1 2	UP TO 30 DAYS
		739.684-038	CLIP-AND-HANGER ATTACHER	2 2 2	THREE TO SIX MONTHS
		739.684-042	CURTAIN-ROLLER ASSEMBLER	2 1 1	30 TO 90 DAYS
		739.684-046	DECORATOR	2 2 1	UP TO 30 DAYS
		739.684-050	DEICER ASSEMBLER, ELECTRIC	3 2 2	SIX TO 12 MONTHS
		739.684-058	DEICER-ELEMENT WINDER, HAND	2 1 1	THREE TO SIX MONTHS
		739.684-078	FRAMER	2 2 2	30 TO 90 DAYS
		739.684-086	HAIR WORKER	2 1 1	SIX TO 12 MONTHS
		739.684-090	HANDBAG FRAMER	2 1 1	UP TO 30 DAYS
		739.684-094	LAMP-SHADE ASSEMBLER	2 1 1	UP TO 30 DAYS
		739.684-098	LAST IRONER	2 1 1	30 TO 90 DAYS
		739.684-130	MOUNTER, SMOKING PIPE	2 1 1	UP TO 30 DAYS
		739.684-138	OIL-SEAL ASSEMBLER	2 2 2	30 TO 90 DAYS
		739.684-146	PICTURE FRAMER	3 1 1	SIX TO 12 MONTHS
		739.684-166	VENETIAN-BLIND ASSEMBLER	2 2 2	30 TO 90 DAYS
		739.684-170	WEAVER	2 1 1	THREE TO SIX MONTHS
		739.684-174	WOODEN-SHADE HARDWARE INSTALLER	3 2 2	30 TO 90 DAYS
		739.685-010	ASSEMBLER, FINGER BUFFS	2 1 1	UP TO 30 DAYS
		739.687-014	ASSEMBLER, CORNCOB PIPES	2 1 1	UP TO 30 DAYS
		739.687-018	ASSEMBLER, FILTERS	2 1 1	30 TO 90 DAYS
		739.687-022	ASSEMBLER, GARMENT FORM	2 2 1	UP TO 30 DAYS
		739.687-026	ASSEMBLER, OIL FILTERS	2 2 2	UP TO 30 DAYS
		739.687-030	ASSEMBLER, SMALL PRODUCTS	2 1 1	UP TO 30 DAYS
		739.687-046	BRUSH FILLER, HAND	2 2 2	30 TO 90 DAYS
		739.687-066	COMPACT ASSEMBLER	2 1 1	UP TO 30 DAYS
		739.687-074	DUST-BRUSH ASSEMBLER	1 1 1	UP TO 30 DAYS
		739.687-086	EYE-DROPPER ASSEMBLER	2 1 1	UP TO 30 DAYS
		739.687-122	MOP-HANDLE ASSEMBLER	2 1 1	UP TO 30 DAYS
		739.687-130	ORNAMENT MAKER, HAND	2 1 1	30 TO 90 DAYS
		739.687-134	PAINT-ROLLER ASSEMBLER	2 1 1	UP TO 30 DAYS
		739.687-154	POLISHING-PAD MOUNTER	2 1 1	UP TO 30 DAYS
		739.687-186	TRAVERSE-ROD ASSEMBLER	1 1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M L	
		739.687-194	VACUUM-BOTTLE ASSEMBLER	2	1 1	SHORT DEMONSTRATION
		739.687-202	WICK-AND-BASE ASSEMBLER	2	1 1	UP TO 30 DAYS
		750.384-014	TUBE BUILDER, AIRPLANE	2	1 1	THREE TO SIX MONTHS
		750.684-014	BEAD BUILDER	2	1 2	30 TO 90 DAYS
		750.687-010	INNER-TUBE INSERTER	1	1 1	UP TO 30 DAYS
		752.684-014	BELT BUILDER	2	2 2	UP TO 30 DAYS
		752.684-030	HOSE MAKER	3	2 2	30 TO 90 DAYS
		752.684-038	RUBBER-GOODS ASSEMBLER	2	1 1	UP TO 30 DAYS
		752.684-046	SELF-SEALING-FUEL-TANK BUILDER	3	2 2	THREE TO SIX MONTHS
		752.687-010	INSTALLER, FUEL-BAY LINING	2	1 1	30 TO 90 DAYS
		754.484-010	LAMINATOR, PREFORMS	2	1 2	THREE TO SIX MONTHS
		754.684-010	ASSEMBLER	2	2 1	THREE TO SIX MONTHS
		754.684-014	ASSEMBLER-AND-GLUER, LAMINATED PLAS	2	1 2	30 TO 90 DAYS
		754.684-034	KNOCK-OUT HAND	2	1 1	30 TO 90 DAYS
		754.684-042	PLASTICS FABRICATOR	3	2 2	SIX TO 12 MONTHS
		759.664-014	EXPANSION-JOINT BUILDER	3	2 2	THREE TO SIX MONTHS
		759.684-010	AIRPLANE-GAS-TANK-LINER ASSEMBLER	2	1 1	UP TO 30 DAYS
		759.684-030	DEICER-KIT ASSEMBLER	2	1 1	30 TO 90 DAYS
		759.684-038	HOSE WRAPPER	2	1 2	UP TO 30 DAYS
		759.684-050	RUBBER LINER	3	1 2	THREE TO SIX MONTHS
		759.684-062	TUBE-AND-MANIFOLD BUILDER	2	1 2	30 TO 90 DAYS
		759.687-014	HOSE-COUPPING JOINER	2	1 2	UP TO 30 DAYS
		761.684-014	JIG BUILDER	2	2 1	30 TO 90 DAYS
		762.684-026	BOX MAKER	2	1 1	UP TO 30 DAYS
		762.684-042	GRIP ASSEMBLER	3	2 2	THREE TO SIX MONTHS
		762.684-054	SCARF GLUER	2	1 1	THREE TO SIX MONTHS
		762.684-058	SIDING STAPLER	2	2 2	UP TO 30 DAYS
		762.684-062	TRUSS ASSEMBLER	3	2 2	30 TO 90 DAYS
		762.687-038	GLUER-AND-WEDGER	2	1 1	UP TO 30 DAYS
		762.687-042	HANDLE ASSEMBLER	2	1 1	UP TO 30 DAYS
		762.687-046	HARDWARE ASSEMBLER	2	1 1	UP TO 30 DAYS
		762.687-054	PARTITION ASSEMBLER	1	1 1	SHORT DEMONSTRATION
		762.687-058	SCREEN TACKER	2	1 1	UP TO 30 DAYS
		764.684-018	BARREL RAISER	2	1 1	THREE TO SIX MONTHS
		764.684-030	TANK ASSEMBLER	3	2 2	THREE TO SIX MONTHS
		764.687-014	ASSEMBLER, FAUCETS	2	1 1	UP TO 30 DAYS
		764.687-046	CHANNEL INSTALLER	2	1 1	UP TO 30 DAYS
		764.687-058	HEADER	2	1 1	UP TO 30 DAYS
		764.687-062	HEADING MATCHER AND ASSEMBLER	2	2 2	30 TO 90 DAYS
		764.687-066	HEADING REPAIRER	2	1 1	30 TO 90 DAYS
		764.687-070	HOGSHEAD COOPER 2	2	1 1	UP TO 30 DAYS
		764.687-074	HOGSHEAD COOPER 3	2	1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M L		
		764.687-082	HOGSHEAD MAT ASSEMBLER	2	1 1	UP TO	30 DAYS
		769.684-010	BASKET ASSEMBLER 2	2	1 1	UP TO	30 DAYS
		769.684-034	REELER	2	1 1	UP TO	30 DAYS
		769.684-054	WEAVER	2	1 2	THREE TO	SIX MONTHS
		774.684-022	HANDLER	3	1 1	SIX TO	12 MONTHS
		774.684-034	STICKER-ON	2	1 1	UP TO	30 DAYS
		775.584-010	GLASS CALIBRATOR	3	2 2	30 TO	90 DAYS
		784.687-022	EAR-MUFF ASSEMBLER	2	1 1	UP TO	30 DAYS
		788.684-030	BOTTOM WHEELER	2	1 1	30 TO	90 DAYS
		789.587-026	SAMPLE CLERK	2	1 1	30 TO	90 DAYS
		789.684-018	CANOPY STRINGER	3	2 2	THREE TO	SIX MONTHS
		789.684-030	NET MAKER	2	1 1	30 TO	90 DAYS
		789.687-082	HARNES RIGGER	2	2 1	UP TO	30 DAYS
		794.684-014	BOX MAKER, PAPERBOARD	2	1 1	UP TO	30 DAYS
		794.684-018	EXPANSION ENVELOPE MAKER, HAND	2	1 1	UP TO	30 DAYS
		794.684-022	PAPER-NOVELTY MAKER	2	1 1	UP TO	30 DAYS
		794.684-026	PAPIER MACHE MOLDER	3	2 2	THREE TO	SIX MONTHS
		794.684-030	SAMPLE MAKER, HAND	2	1 2	30 TO	90 DAYS
		794.687-010	ASSEMBLER, CARDS AND ANNOUNCEMENTS	2	1 1	UP TO	30 DAYS
		794.687-042	PUNCHBOARD ASSEMBLER 1	2	1 1	UP TO	30 DAYS
		794.687-046	PUNCHBOARD ASSEMBLER 2	1	1 1	SHORT	DEMONSTRATION
		795.684-026	WADER-BOOT-TOP ASSEMBLER	2	1 2	UP TO	30 DAYS
		795.687-018	GLUER, WET SUIT	2	1 1	UP TO	30 DAYS
		795.687-026	TENNIS-BALL COVERER, HAND	2	1 1	UP TO	30 DAYS
		801.384-010	ASSEMBLER, WIRE-MESH GATE	3	1 1	THREE TO	SIX MONTHS
		801.684-010	JIG FITTER	3	2 1	SIX TO	12 MONTHS
		806.684-018	ASSEMBLER, CAMPER	3	2 2	30 TO	90 DAYS
		806.684-030	ASSEMBLER, METAL BONDING	3	2 1	SIX TO	12 MONTHS
		806.684-034	ASSEMBLER, ROCKET ENGINES	3	1 2	THREE TO	SIX MONTHS
		806.684-046	CAR TRIMMER	3	2 1	30 TO	90 DAYS
		806.684-070	INSTALLER, METAL FLOORING	2	1 1	THREE TO	SIX MONTHS
		806.684-074	INSTALLER, MOVABLE BULKHEAD	3	1 1	THREE TO	SIX MONTHS
		806.684-114	RAILROAD-CAR-TRUCK BUILDER	3	1 1	30 TO	90 DAYS
		806.684-126	ROOF FITTER	3	2 1	THREE TO	SIX MONTHS
		806.687-010	ASSEMBLER, BICYCLE 2	1	1 1	UP TO	30 DAYS
		806.687-034	INSTALLER, DOOR FURRING	2	1 1	UP TO	30 DAYS
		809.684-038	WHEEL ASSEMBLER	2	1 1	UP TO	30 DAYS
		824.684-010	NEON-TUBE PUMPER	3	2 2	SIX TO	12 MONTHS
		826.684-010	ANODE BUILDER	3	2 2	THREE TO	SIX MONTHS
		826.684-022	POT BUILDER	3	2 2	THREE TO	SIX MONTHS
		869.684-014	ASSEMBLER, SKYLIGHTS	2	1 2	30 TO	90 DAYS
		869.684-026	INSTALLER	3	2 2	THREE TO	SIX MONTHS

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		869.684-070	UPHOLSTERER	3 1 1	SIX TO 12 MONTHS
		869.687-014	CAMOUFLAGE ASSEMBLER	1 1 1	UP TO 30 DAYS
01.0204	AGRICULTURAL POWER MACHINERY	706.684-042	BENCH ASSEMBLER	2 1 2	UP TO 30 DAYS
		801.684-022	PROGRESSIVE ASSEMBLER AND FITTER	2 1 1	30 TO 90 DAYS
10.0106	VIDEO TECHNOLOGY	*976.684-026	SPLICER	2 1 1	UP TO 30 DAYS
17.0103	DENTAL LABORATORY TECHNOLOGY	712.691-010	DENTURE WAXER	3 2 3	ONE TO TWO YEARS
		712.681-014	DENTURE-MODEL MAKER	3 2 3	SIX TO 12 MONTHS
		712.681-018	FINISHER, DENTURE	3 2 3	SIX TO 12 MONTHS
		712.684-014	BITE-BLOCK MAKER	3 1 1	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.484-010	PLEAT PATTERNMAKER	3 3 2	SIX TO 12 MONTHS
		781.684-042	PERFORATOR	2 1 1	30 TO 90 DAYS
		782.684-034	KNITTER, HAND	3 3 2	SIX TO 12 MONTHS
		782.687-022	ELASTIC-TAPE INSERTER	2 1 1	UP TO 30 DAYS
		783.684-010	ASSEMBLER, LEATHER GOODS 1-	3 2 3	30 TO 90 DAYS
		783.684-014	FUR NAILER	3 2 2	ONE TO TWO YEARS
		783.687-010	ASSEMBLER, LEATHER GOODS 2	2 1 2	UP TO 30 DAYS
		783.687-026	PASTER, HAND OR MACHINE	2 1 1	UP TO 30 DAYS
		784.684-030	FOUNDATION MAKER	2 1 2	UP TO 30 DAYS
		784.684-034	HARDENER	2 1 2	THREE TO SIX MONTHS
		784.684-038	HAT BRAIDER	2 1 1	30 TO 90 DAYS
		784.684-070	STEAMER-BLOCKER	2 1 1	UP TO 30 DAYS
		784.684-074	TOP-HAT-BODY MAKER	2 1 1	30 TO 90 DAYS
		784.684-078	TRIMMER	2 1 1	UP TO 30 DAYS
		784.687-082	WIRE INSERTER	2 1 1	UP TO 30 DAYS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	782.684-034	KNITTER, HAND	3 3 2	SIX TO 12 MONTHS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	706.484-010	DRAPERY-ROD ASSEMBLER	2 1 2	30 TO 90 DAYS
		781.684-030	DRAPERY-HEAD FORMER	2 1 1	UP TO 30 DAYS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.684-034	CHAIR UPHOLSTERER	3 2 2	SIX TO 12 MONTHS
		780.684-038	COTTON DISPATCHER	2 1 1	UP TO 30 DAYS
		780.684-046	CUSHION BUILDER	2 1 1	30 TO 90 DAYS
		780.684-054	CUSHION MAKER 1	2 1 1	THREE TO SIX MONTHS
		780.684-058	EDGE ROLLER	2 1 1	30 TO 90 DAYS
		780.684-082	PANEL COVERER, METAL FURNITURE	2 1 1	UP TO 30 DAYS
		780.684-094	SLIP-SEAT COVERER	2 1 1	30 TO 90 DAYS
		780.684-114	TRIMMING ASSEMBLER	3 2 2	30 TO 90 DAYS

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		780.684-118	UPHOLSTERER, OUTSIDE	2	1	2	THREE TO SIX MONTHS
		780.684-126	UPHOLSTERY TRIMMER	2	1	2	30 TO 90 DAYS
		780.684-134	UPHOLSTERER, ASSEMBLY LINE	2	1	1	30 TO 90 DAYS
		780.687-016	HASSOCK MAKER	2	1	1	UP TO 30 DAYS
		781.684-058	TRIM-STENCIL MAKER	2	2	2	30 TO 90 DAYS
20.0504	FLORAL DESIGN	739.684-014	ARTIFICIAL-FLOWER MAKER	2	1	1	30 TO 90 DAYS
		739.687-010	ASSEMBLER-ARRANGER	2	1	1	UP TO 90 DAYS
46.0201	CARPENTRY	869.684-010	ASSEMBLER	3	2	2	THREE TO SIX MONTHS
46.0302	ELECTRICIAN	821.684-018	WIRER, STREET LIGHT	3	3	2	30 TO 90 DAYS
46.0303	LINeworker	822.684-010	FRAME WIRER	3	3	3	THREE TO SIX MONTHS
		829.684-018	CABLE PULLER	2	1	1	THREE TO SIX MONTHS
46.0401	BUILDING AND PROPERTY MAINTENANCE	899.484-010	MOBILE-HOME-LOT UTILITY WORKER	3	1	2	ONE TO TWO YEARS
46.0402	CONCRETE PLACING AND FINISHING	869.687-022	CONCRETE-FLOAT MAKER	2	1	1	UP TO 90 DAYS
46.0406	GLAZING	865.484-010	SAFETY-GLASS INSTALLER	3	2	3	ONE TO TWO YEARS
		865.684-014	GLASS INSTALLER	2	1	2	30 TO 90 DAYS
		865.684-018	GLAZIER, METAL FURNITURE	3	1	2	SIX TO 12 MONTHS
		865.684-022	REFRIGERATOR GLAZIER	3	1	2	THREE TO SIX MONTHS
46.0410	ROOFING	809.684-030	METAL HANGER	3	2	2	THREE TO SIX MONTHS
46.0503	PLUMBING	862.684-026	PLUMBING ASSEMBLER-INSTALLER	3	1	2	THREE TO SIX MONTHS
47.0102	BUSINESS MACHINE REPAIR	706.684-014	ASSEMBLER	3	2	2	SIX TO 12 MONTHS
		706.684-026	ASSEMBLER, TYPE-BAR-AND-SEGMENT	3	2	2	30 TO 90 DAYS
		706.684-094	SUBASSEMBLER	3	2	3	THREE TO SIX MONTHS
		729.684-062	WIRER, SUBASSEMBLIES	3	2	1	THREE TO SIX MONTHS
47.0103	COMMUNICATION ELECTRONICS	720.684-014	PHONOGRAPH-CARTRIDGE ASSEMBLER	2	2	2	SIX TO 12 MONTHS
		720.687-010	RECORD-CHANGER ASSEMBLER	2	1	1	UP TO 30 DAYS
		725.684-022	TUBE ASSEMBLER, CATHODE RAY	2	1	1	30 TO 90 DAYS
		726.684-018	ELECTRONICS ASSEMBLER	3	1	2	30 TO 90 DAYS
47.0104	COMPUTER ELECTRONICS	726.684-018	ELECTRONICS ASSEMBLER	3	1	2	30 TO 90 DAYS
		729.684-062	WIRER, SUBASSEMBLIES	3	2	1	THREE TO SIX MONTHS
47.0105	INDUSTRIAL ELECTRONICS	706.687-030	PUSH-CONNECTOR ASSEMBLER	2	1	1	UP TO 30 DAYS

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		721.484-010	ELECTRIC-MOTOR WINDER	3 2 2	ONE TO TWO YEARS
		721.484-014	FIELD-RING ASSEMBLER	3 2 2	ONE TO TWO YEARS
		721.484-022	SKEIN WINDER	3 2 2	SIX TO 12 MONTHS
		721.684-014	ASSEMBLER, CARBON BRUSHES	3 1 2	THREE TO SIX MONTHS
		721.684-018	COIL CONNECTOR	3 2 2	SIX TO 12 MONTHS
		721.684-022	ELECTRIC-MOTOR ASSEMBLER	2 1 2	30 TO 90 DAYS
		721.684-026	SPIDER ASSEMBLER	4 2 2	ONE TO TWO YEARS
		722.687-010	SWITCHBOX ASSEMBLER 1	1 1 1	UP TO 30 DAYS
		723.684-010	ASSEMBLER	2 2 2	30 TO 90 DAYS
		723.687-010	PATCHER	2 1 1	UP TO 30 DAYS
		724.684-010	ARMATURE BANDER	3 2 2	SIX TO 12 MONTHS
		724.684-014	ARMATURE CONNECTOR 2	2 2 2	30 TO 90 DAYS
		724.684-026	COIL WINDER	2 2 2	THREE TO SIX MONTHS
		724.684-030	COMMUTATOR ASSEMBLER	3 2 2	SIX TO 12 MONTHS
		724.684-034	MAGNET-VALVE ASSEMBLER	2 1 2	30 TO 90 DAYS
		724.684-038	MOTOR-AND-GENERATOR-BRUSH MAKER	3 2 1	THREE TO SIX MONTHS
		724.685-010	ELEMENT WINDER	3 2 2	30 TO 90 DAYS
		724.687-010	LACER AND TIER	1 1 1	UP TO 30 DAYS
		725.384-010	TUBE ASSEMBLER, ELECTRON	2 2 2	UP TO 30 DAYS
		725.684-014	MOUNTER, HAND	2 2 2	30 TO 90 DAYS
		725.684-018	STEM MOUNTER	2 1 1	UP TO 30 DAYS
		725.684-022	TUBE ASSEMBLER, CATHODE RAY	2 1 1	30 TO 90 DAYS
		726.384-010	ELECTRONICS ASSEMBLER	3 2 2	ONE TO TWO YEARS
		726.684-010	CAPACITOR-PACK-PRESS OPERATOR	2 1 1	THREE TO SIX MONTHS
		726.684-014	ELECTRONIC-SCALE SUBASSEMBLER	3 1 1	30 TO 90 DAYS
		726.684-018	ELECTRONICS ASSEMBLER	3 1 2	30 TO 90 DAYS
		726.684-034	ASSEMBLER, SEMICONDUCTOR	3 2 2	30 TO 90 DAYS
		726.687-014	PLUG WIRER	2 1 1	30 TO 90 DAYS
		728.384-010	ASSEMBLER, ELECTRICAL WIRE GROUP	2 2 2	30 TO 90 DAYS
		728.684-010	CABLE MAKER	3 2 2	30 TO 90 DAYS
		728.684-014	ELECTRICAL-LINE SPLICER	3 2 2	SIX TO 12 MONTHS
		728.687-010	WIREWORKER	1 1 1	UP TO 30 DAYS
		729.384-010	ASSEMBLER, ELECTRICAL ACCESSORIES 2	3 2 2	30 TO 90 DAYS
		729.484-010	LAMINATION ASSEMBLER	3 2 2	30 TO 90 DAYS
		729.684-014	CAPACITOR ASSEMBLER	3 2 2	THREE TO SIX MONTHS
		729.684-026	ELECTRICAL-CONTROL ASSEMBLER	3 2 2	THREE TO SIX MONTHS
		729.684-030	MOLD OPERATOR	3 2 2	THREE TO SIX MONTHS
		729.684-054	SUBASSEMBLER	2 1 2	UP TO 30 DAYS
		729.687-010	ASSEMBLER, ELECTRICAL ACCESSORIES 1	2 1 2	UP TO 30 DAYS
47.0106	MAJOR APPLIANCE REPAIR	827.584-010	ELECTRICAL-APPLIANCE PREPARER	2 2 2	30 TO 90 DAYS
		827.684-010	APPLIANCE ASSEMBLER, LINE	3 2 2	30 TO 90 DAYS

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47.0107	MOTOR REPAIR	721.484-010	ELECTRIC-MOTOR WINDER	3 2 2	ONE TO TWO YEARS
		721.484-014	FIELD-RING ASSEMBLER	3 2 2	ONE TO TWO YEARS
		721.484-022	SKEIN WINDER	3 2 2	SIX TO 12 MONTHS
		721.684-014	ASSEMBLER, CARBON BRUSHES	3 1 2	THREE TO SIX MONTHS
		721.684-018	COIL CONNECTOR	3 2 2	SIX TO 12 MONTHS
		721.684-022	ELECTRIC-MOTOR ASSEMBLER	2 1 2	30 TO 90 DAYS
		721.684-026	SPIDER ASSEMBLER	4 2 2	ONE TO TWO YEARS
		724.684-010	ARMATURE BANDER	3 2 2	SIX TO 12 MONTHS
		724.684-014	ARMATURE CONNECTOR 2	2 2 2	30 TO 90 DAYS
		724.684-026	COIL WINDER	2 2 2	THREE TO SIX MONTHS
		724.684-030	COMMUTATOR ASSEMBLER	3 2 2	SIX TO 12 MONTHS
		724.684-038	MOTOR-AND-GENERATOR-BRUSH MAKER	3 2 1	THREE TO SIX MONTHS
		729.684-054	SUBASSEMBLER	2 1 2	UP TO 30 DAYS
47.0108	SMALL APPLIANCE REPAIR	706.687-030	PUSH-CONNECTOR ASSEMBLER	2 1 1	UP TO 30 DAYS
		723.684-010	ASSEMBLER	2 2 2	30 TO 90 DAYS
47.0109	VENDING AND RECREATIONAL MACHINE REPAIR	731.684-010	COIN-MACHINE ASSEMBLER	2 1 2	30 TO 90 DAYS
		731.687-010	ASSEMBLER	1 1 1	UP TO 30 DAYS
47.0203	HEATING AND AIR CONDITIONING	706.684-010	AIR-CONDITIONING-COIL ASSEMBLER	3 2 2	30 TO 90 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	728.684-014	ELECTRICAL-LINE SPLICER	3 2 2	SIX TO 12 MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	692.685-218	THERMOSTAT-ASSEMBLY-MACHINE TENDER,	2 1 2	THREE TO SIX MONTHS
		706.684-066	INSTRUMENT-PANEL ASSEMBLER	3 2 3	THREE TO SIX MONTHS
		710.381-010	ASSEMBLER	3 2 2	SIX TO 12 MONTHS
		710.681-010	ASSEMBLER	3 2 2	SIX TO 12 MONTHS
		710.681-014	CALIBRATOR 1	3 2 2	THREE TO SIX MONTHS
		719.684-010	ASSEMBLER, REGULATORS	2 1 1	30 TO 90 DAYS
		722.681-010	ELECTRONIC-SENSING-EQUIPMENT ASSEMB	3 2 2	THREE TO SIX MONTHS
47.0402	GUNSMITHING	736.684-010	ALINER, BARREL AND RECEIVER	3 2 1	30 TO 90 DAYS
		736.684-014	ASSEMBLER 2	2 1 1	30 TO 90 DAYS
		736.684-026	BARREL STRAIGHTENER 1	3 1 2	THREE TO SIX MONTHS
		761.684-046	STOCK SHAPER	2 1 1	30 TO 90 DAYS
47.0403	LOCKSMITHING AND SAFE REPAIR	706.684-070	LOCK ASSEMBLER	3 2 2	ONE TO TWO YEARS
		706.684-074	LOCK ASSEMBLER	2 1 2	30 TO 90 DAYS
		706.684-078	LOCK INSTALLER	2 1 1	30 TO 90 DAYS
47.0404	MUSICAL INSTRUMENT REPAIR	730.384-010	ASSEMBLER, PIANO	3 2 2	THREE TO SIX MONTHS

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CODE	TITLE	CODE	TITLE	R	M L	
		730.684-010	ASSEMBLER, MUSICAL INSTRUMENTS	3	2 2	30 TO 90 DAYS
		730.684-018	BELLY BUILDER	3	3 3	30 TO 90 DAYS
		730.684-030	CONSOLE ASSEMBLER	3	2 2	THREE TO SIX MONTHS
		730.684-042	KEYBOARD-ACTION ASSEMBLER	3	2 2	THREE TO SIX MONTHS
		730.684-046	MANUAL WINDER	3	2 2	30 TO 90 DAYS
		730.684-050	MUSICAL-STRING MAKER	3	1 1	THREE TO SIX MONTHS
		730.684-054	PIANO STRINGER	2	1 2	THREE TO SIX MONTHS
		730.684-062	RACKER, OCTAVE BOARD	3	2 2	30 TO 90 DAYS
		730.684-078	SLIDING-JOINT MAKER	3	2 2	30 TO 90 DAYS
		730.684-082	STOPBOARD ASSEMBLER	3	3 3	THREE TO SIX MONTHS
		730.684-090	TOPE CABINET ASSEMBLER	3	2 2	30 TO 90 DAYS
		730.685-014	MOUTHPIECE MAKER	3	2 2	30 TO 90 DAYS
47.0405	OPERATION, MAINTENANCE, AND REPAIR OF AU	714.684-010	ASSEMBLER, PRODUCTION LINE	3	2 2	THREE TO SIX MONTHS
		714.684-014	BELLOWS MAKER	3	2 2	THREE TO SIX MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	706.684-046	BENCH HAND	2	2 2	30 TO 90 DAYS
		732.384-010	ASSEMBLER, BILLIARD-TABLE	3	2 2	30 TO 90 DAYS
		732.684-014	ASSEMBLER	2	2 2	30 TO 90 DAYS
		732.684-018	ASSEMBLER, LIQUID CENTER	2	1 1	UP TO 30 DAYS
		732.684-022	ASSEMBLER, PING-PONG TABLE	2	1 1	UP TO 30 DAYS
		732.684-026	BALL ASSEMBLER	2	2 2	30 TO 90 DAYS
		732.684-042	BOW-STRING MAKER	2	1 1	30 TO 90 DAYS
		732.684-046	CELLULOID TRIMMER	2	1 1	UP TO 30 DAYS
		732.684-054	FISH-STRINGER ASSEMBLER	2	2 1	UP TO 30 DAYS
		732.684-058	FISHING-LURE ASSEMBLER	3	2 2	30 TO 90 DAYS
		732.684-062	FISHING-REEL ASSEMBLER	2	1 1	UP TO 30 DAYS
		732.684-066	FISHING-ROD ASSEMBLER	2	1 2	UP TO 30 DAYS
		732.684-074	FLY TIE	2	1 2	THREE TO SIX MONTHS
		732.684-078	GOLF-CLUB ASSEMBLER	2	1 1	30 TO 90 DAYS
		732.684-082	GRIP WRAPPER	2	1 1	30 TO 90 DAYS
		732.684-086	GUIDE WINDER	2	2 2	30 TO 90 DAYS
		732.684-090	PELOTA MAKER	2	1 1	THREE TO SIX MONTHS
		732.684-094	RACKET STRINGER	3	2 2	SIX TO 12 MONTHS
		732.684-098	ROLLER-SKATE ASSEMBLER	2	1 1	UP TO 30 DAYS
		732.684-126	SURFBOARD MAKER	2	2 2	30 TO 90 DAYS
		732.685-018	FIXING-MACHINE OPERATOR	2	1 1	30 TO 90 DAYS
		732.687-014	ASSEMBLER, FISHING FLOATS	1	1 1	UP TO 30 DAYS
		732.687-022	CASTING-PLUG ASSEMBLER	1	1 1	UP TO 30 DAYS
		732.687-038	LEADER TIE	2	1 1	UP TO 30 DAYS
		806.684-014	ASSEMBLER, BICYCLE 1	2	1 1	THREE TO SIX MONTHS
47.0408	WATCH REPAIR	715.384-010	BALANCE ASSEMBLER	3	2 2	30 TO 90 DAYS

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		715.684-014	ASSEMBLER, MOVEMENT	2	1 1	30 TO	90 DAYS
		715.684-022	BALANCE-BRIDGE ASSEMBLER	3	2 2	30 TO	90 DAYS
		715.684-046	CANNON-PINION ADJUSTER	3	2 2	30 TO	90 DAYS
		715.684-050	CAP-JEWEL PLATE ASSEMBLER	3	2 2	30 TO	90 DAYS
		715.684-058	CLOCK ASSEMBLER	2	1 2	30 TO	90 DAYS
		715.684-066	COLLETER	2	1 2	30 TO	90 DAYS
		715.684-070	CROWN ATTACHER	2	1 2	UP TO	30 DAYS
		715.684-074	CROWN-WHEEL ASSEMBLER	3	2 2	30 TO	90 DAYS
		715.684-082	DIAL-SCREW ASSEMBLER	2	1 2	UP TO	30 DAYS
		715.684-086	DIALER	3	2 2	30 TO	90 DAYS
		715.684-090	DISASSEMBLER	2	1 1	30 TO	90 DAYS
		715.684-098	FINER	2	2 2	30 TO	90 DAYS
		715.684-110	HANDS ASSEMBLER	2	2 2	30 TO	90 DAYS
		715.684-130	JEWEL INSERTER	2	2 2	30 TO	90 DAYS
		715.684-134	JEWEL STAKER	2	2 2	30 TO	90 DAYS
		715.684-142	MECHANISM ASSEMBLER	2	1 2	30 TO	90 DAYS
		715.684-150	OVERCOILER	2	1 2	30 TO	90 DAYS
		715.684-154	PALLET ASSEMBLER	2	1 2	30 TO	90 DAYS
		715.684-166	PIN INSERTER, REGULATOR	2	1 2	30 TO	90 DAYS
		715.684-174	PUT-IN-BEAT ADJUSTER	3	2 2	30 TO	90 DAYS
		715.684-178	SET-STAFF FITTER	2	1 1	UP TO	30 DAYS
		715.684-182	STAKER	2	2 2	30 TO	90 DAYS
		715.684-186	STUDDER, HAIRSPRING	2	1 1	30 TO	90 DAYS
		715.685-038	MAINSRING WINDER AND OILER	2	1 1	UP TO	30 DAYS
		715.687-014	BARREL-CAP SETTER	2	1 1	30 TO	90 DAYS
		715.687-018	CRYSTAL ATTACHER	1	1 1	UP TO	30 DAYS
		715.687-114	ROTOR ASSEMBLER	2	1 2	UP TO	30 DAYS
		715.687-118	SET-KEY DRIVER	1	1 1	UP TO	30 DAYS
		770.684-014	JEWEL-HOLE CORNERER	2	1 1	30 TO	90 DAYS
		770.684-018	ROUGH OPENER, JEWEL HOLE	2	1 1	UP TO	30 DAYS
47.0603	AUTOMOTIVE BODY REPAIR	806.684-058	HEADLINER INSTALLER	2	1 2	UP TO	30 DAYS
		806.684-118	REPAIRER, GENERAL	3	2 2	THREE TO	SIX MONTHS
		806.684-138	VINYL-TOP INSTALLER, AUTOMOBILE	2	1 1	UP TO	30 DAYS
		807.684-026	INSTALLER, SOFT TOP	2	1 2	UP TO	30 DAYS
		807.684-030	MECHANICAL ASSEMBLER, PANELING	2	1 2	30 TO	90 DAYS
47.0604	AUTOMOTIVE MECHANICS	801.687-010	ASSEMBLER HELPER, INTERNAL COMBUSTI	2	1 1	UP TO	30 DAYS
		806.684-010	ASSEMBLER, AUTOMOBILE	2	1 2	UP TO	30 DAYS
		829.684-014	BODY WIRER	3	2 3	THREE TO	SIX MONTHS
47.0605	DIFSEI ENGINE MECHANICS	706.684-062	INJECTOR ASSEMBLER	3	2 2	SIX TO	12 MONTHS

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47.0606	SMALL ENGINE REPAIR	806.684-090	MOTORCYCLE ASSEMBLER	3 1 1	SIX TO 12 MONTHS
		806.684-094	MOTORCYCLE SUBASSFMBLER	3 2 1	SIX TO 12 MONTHS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*706.684-066	INSTRUMENT-PANEL ASSEMBLER	3 2 3	THREE TO SIX MONTHS
		728.384-010	ASSEMBLER, ELECTRICAL WIRE GROUP	2 2 2	30 TO 90 DAYS
		*806.484-010	ASSEMBLER, SUBASSFMBLY	3 2 1	SIX TO 12 MONTHS
		*806.684-062	HONEYCOMB-BLANKET MAKER	3 2 1	SIX TO 12 MONTHS
		*806.684-078	INSULATION-BLANKET MAKER	2 1 1	30 TO 90 DAYS
		*806.684-130	SKIN-LAP BONDER	2 2 2	30 TO 90 DAYS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	*806.684-034	ASSEMBLER, ROCKET ENGINES	3 1 2	THREE TO SIX MONTHS
48.0204	COMMERCIAL PHOTOGRAPHY	976.684-026	SPLICER	2 1 1	UP TO 30 DAYS
48.0209	SILK SCREEN MAKING AND PRINTING	709.484-010	SILK-SCREEN-FRAME ASSEMBLER	3 2 2	30 TO 90 DAYS
		739.684-150	SCREEN MAKER	2 1 1	30 TO 90 DAYS
48.0303	UPHOLSTERING	780.384-010	AUTOMOBILE-SEAT-COVER-AND-CONVERTIB	3 3 3	ONE TO TWO YEARS
		780.684-010	BACK PADDER	2 1 1	UP TO 30 DAYS
		780.684-014	BAND-TOP MAKER	2 1 1	30 TO 90 DAYS
		780.684-018	BOX-SPRING MAKER 1	2 1 1	30 TO 90 DAYS
		780.684-022	BOX-SPRING MAKER 2	2 1 1	30 TO 90 DAYS
		780.684-026	CASKET COVERER	2 1 1	30 TO 90 DAYS
		780.684-030	CASKET LINER	3 1 1	THREE TO SIX MONTHS
		780.684-034	CHAIR UPHOLSTERER	3 2 2	SIX TO 12 MONTHS
		780.684-038	COTTON DISPATCHER	2 1 1	UP TO 30 DAYS
		780.684-042	CRUSHER	2 1 1	UP TO 30 DAYS
		780.684-046	CUSHION BUILDER	2 1 1	30 TO 90 DAYS
		780.684-050	CUSHION BUILDER	2 1 1	30 TO 90 DAYS
		780.684-054	CUSHION MAKER 1	2 1 1	THREE TO SIX MONTHS
		780.684-058	EDGE ROLLER	2 1 1	30 TO 90 DAYS
		780.684-062	FABRICATOR, FOAM RUBBER	2 1 1	UP TO 30 DAYS
		780.684-074	MATTRESS MAKER	3 1 2	THREE TO SIX MONTHS
		780.684-078	PADDER, CUSHION	2 1 1	30 TO 90 DAYS
		780.684-082	PANEL COVERER, METAL FURNITURE	2 1 1	UP TO 30 DAYS
		780.684-086	PANEL MAKER	2 1 1	30 TO 90 DAYS
		780.684-090	POCKETED-SPRING ASSEMBLER	2 1 1	30 TO 90 DAYS
		780.684-094	SLIP-SEAT COVERER	2 1 1	3 TO 90 DAYS
		780.684-098	SPRING ASSEMBLER	2 1 1	UP TO 30 DAYS
		780.684-102	SPRING CLIPPER	2 1 2	30 TO 90 DAYS
		780.684-106	SPRINGER	3 1 2	THREE TO SIX MONTHS

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		780.684-114	TRIMMING ASSEMBLER	3 2 2	30 TO 90 DAYS
		780.684-118	UPHOLSTERER, OUTSIDE	2 1 2	THREE TO SIX MONTHS
		780.684-126	UPHOLSTERY TRIMMER	2 1 2	30 TO 90 DAYS
		780.684-130	WEBBING TACKER	2 1 1	30 TO 90 DAYS
		780.684-134	UPHOLSTERER, ASSEMBLY LINE	2 1 1	30 TO 90 DAYS
		780.685-010	MATTRESS-FILLING-MACHINE TENDER	2 1 1	UP TO 30 DAYS
		780.685-018	WIRE-BORDER ASSEMBLER	2 1 1	30 TO 90 DAYS
		780.687-018	HASSOCK MAKER	2 1 1	UP TO 30 DAYS
		780.687-030	MATTRESS-SPRING ENCASER	2 1 1	UP TO 30 DAYS
		780.687-034	PADDING GLUER	2 1 1	UP TO 30 DAYS
		780.687-038	SPRING COVERER	2 1 1	UP TO 30 DAYS
		780.687-042	STAPLER, HAND	2 1 1	UP TO 30 DAYS
		806.684-058	HEADLINER INSTALLER	2 1 2	UP TO 30 DAYS
		915.687-010	AUTOMOBILE-SEAT-COVER INSTALLER	2 1 1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	753.684-014	CUT-AND-COVER LINE WORKER	2 1 1	UP TO 30 DAYS
		753.684-018	HOOVER-LASTER	2 1 2	30 TO 90 DAYS
		753.684-022	LASTER	2 1 2	30 TO 90 DAYS
		753.687-026	MAKING-LINE WORKER	2 1 2	30 TO 90 DAYS
		783.684-026	LEATHER WORKER	3 2 2	SIX TO 12 MONTHS
		783.684-030	UTILITY BAG ASSEMBLER	2 1 2	UP TO 30 DAYS
		788.684-010	ASSEMBLER FOR PULLER-OVER, HAND	3 1 1	30 TO 90 DAYS
		788.684-014	ASSEMBLER, SANDAL PARTS	2 1 2	UP TO 30 DAYS
		788.684-018	BINDING FOLDER, MACHINE	3 1 2	THREE TO SIX MONTHS
		788.684-026	BOTTOM FILLER	2 1 1	UP TO 30 DAYS
		788.684-034	BOW MAKER	2 1 1	UP TO 30 DAYS
		788.684-058	HEEL ATTACHER, WOOD	2 1 1	THREE TO SIX MONTHS
		788.684-062	HEEL-SEAT FITTER, HAND	2 1 1	THREE TO SIX MONTHS
		788.684-074	LASTER, HAND	2 1 1	UP TO 30 DAYS
		788.684-078	LASTING-MACHINE OPERATOR, HAND METH	2 1 1	THREE TO SIX MONTHS
		788.684-086	PULLER AND LASTER, MACHINE	2 1 2	30 TO 90 DAYS
		788.684-090	PULLER OVER, MACHINE	2 1 1	THREE TO SIX MONTHS
		788.684-094	RASPER	2 1 1	UP TO 30 DAYS
		788.684-106	SLIP LASTER	2 1 1	UP TO 30 DAYS
		788.684-122	UPPER-AND-BOTTOM LACER, HAND	2 1 2	30 TO 90 DAYS
		788.687-050	FOLDER, HAND	2 1 1	UP TO 30 DAYS
		788.687-054	GOLF-SHOE-SPIKE ASSEMBLER	2 1 1	UP TO 30 DAYS
		788.687-138	STEEL-BOX-TOE INSERTER	2 1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	518.684-022	WAX-PATTERN ASSEMBLER	2 1 1	UP TO 30 DAYS
		519.684-022	STOPPER MAKER	2 1 1	30 TO 90 DAYS
		801.564-010	ROLL BUILDER	3 2 3	SIX TO 12 MONTHS

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48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	706.684-038	BEARING-RING ASSEMBLER	2	2	2	30 TO 90 DAYS
		709.684-038	CLIP-BOLTER AND WRAPPER	2	2	1	30 TO 90 DAYS
		869.684-074	UTILITY WORKER	3	2	2	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	703.684-014	CUPBOARD BUILDER	3	1	2	THREE TO SIX MONTHS
		706.684-034	BAR AND FILLER ASSEMBLER	2	1	2	UP TO 30 DAYS
		706.684-050	DRAWER UPFITTER	2	1	1	THREE TO SIX MONTHS
		706.684-058	HYDRAULIC-CHAIR ASSEMBLER	3	2	2	SIX TO 12 MONTHS
		706.684-070	LOCK ASSEMBLER	3	2	2	ONE TO TWO YEARS
		706.684-078	LOCK INSTALLER	2	1	1	30 TO 90 DAYS
		706.684-082	METAL-BED ASSEMBLER	2	1	2	30 TO 90 DAYS
		706.684-090	SPRING ASSEMBLER	2	1	1	THREE TO SIX MONTHS
		706.684-102	VENDING-MACHINE ASSEMBLER	2	1	2	UP TO 30 DAYS
		709.667-010	FABRIC STRETCHER	2	1	1	30 TO 90 DAYS
		709.684-014	ASSEMBLER, METAL FURNITURE	2	2	2	UP TO 30 DAYS
		709.684-026	BIRD-CAGE ASSEMBLER	2	1	1	THREE TO SIX MONTHS
		709.684-038	CLIP-BOLTER AND WRAPPER	2	2	1	30 TO 90 DAYS
		709.684-066	RIVETER, HAND	2	1	1	UP TO 30 DAYS
		709.684-078	SPRING FITTER	3	2	2	SIX TO 12 MONTHS
		739.684-154	TICKET-CHOPPER ASSEMBLER	2	1	2	SIX TO 12 MONTHS
		739.687-034	BEADER	1	1	1	UP TO 30 DAYS
		806.684-082	MECHANICAL ASSEMBLER	3	2	2	THREE TO SIX MONTHS
		809.484-010	AWNING-FRAME MAKER	3	2	1	SIX TO 12 MONTHS
		809.484-014	TEMPLATE MAKER, TRACK	3	2	1	30 TO 90 DAYS
		809.681-010	ASSEMBLER, UNIT	3	2	2	THREE TO SIX MONTHS
		809.684-010	ASSEMBLER, PRODUCTION LINE	2	1	1	30 TO 90 DAYS
		809.684-014	CASKET ASSEMBLER, METAL	3	1	1	THREE TO SIX MONTHS
		869.684-074	UTILITY WORKER	3	2	2	SIX TO 12 MONTHS
48.0506	SHFET METAL	703.684-014	CUPBOARD BUILDER	3	1	2	THREE TO SIX MONTHS
48.0508	WELDING	813.684-014	SOLDERER-ASSEMBLER	3	2	3	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	574.684-018	SLIDE PROCESSOR	3	1	1	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.684-010	ARBORER	2	1	1	UP TO 30 DAYS
		700.684-014	ASSEMBLER	2	1	1	30 TO 90 DAYS
		700.684-022	CHAIN MAKER, MACHINE	3	2	2	30 TO 90 DAYS
		700.684-030	FARRING MAKER	3	2	2	30 TO 90 DAYS
		700.684-058	PREPARER, MAKING DEPARTMENT	3	2	2	ONE TO TWO YEARS
		700.684-062	PREPARER, SAMPLES AND REPAIRS	3	2	2	THREE TO SIX MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		700.684-082	WATCH-BAND ASSEMBLER	2	1 1	30 TO 90	DAYS
		700.687-026	CHARGER 2	2	1 1	UP TO 30	DAYS
		734.687-050	COVERED-BUCKLE ASSEMBLER	1	1 1	30 TO 90	DAYS
		735.684-010	BFAD STRINGER	2	1 2	30 TO 90	DAYS
		735.684-018	TROPHY ASSEMBLER	3	2 2	SIX TO 12	MONTHS
		735.687-014	LINKER	2	1 2	30 TO 90	DAYS
		735.687-022	PIN-OR-CLIP FASTENER	2	1 1	UP TO 30	DAYS
		735.687-038	SWEDGER	2	1 1	UP TO 30	DAYS
		770.684-014	JEWEL-HOLE CORNERER	2	1 1	30 TO 90	DAYS
48.0702	FURNITURE MAKING	761.684-038	SHAPER, HAND	3	1 1	THREE TO SIX	MONTHS
		762.684-038	EDGE BANDER, HAND	2	1 1	UP TO 30	DAYS
		762.684-066	WOODEN-FRAME BUILDER	2	1 1	UP TO 30	DAYS
		762.687-070	WOODENWARE ASSEMBLER	2	1 2	UP TO 30	DAYS
		763.684-018	CANER 1	3	1 1	30 TO 90	DAYS
		763.684-038	FURNITURE ASSEMBLER	3	2 2	THREE TO SIX	MONTHS
		763.684-042	HARDWARE ASSEMBLER	2	1 1	30 TO 90	DAYS
		763.684-046	LAG SCREWER	2	2 2	UP TO 30	DAYS
		763.684-050	LAMINATOR, HAND	2	1 1	30 TO 90	DAYS
		763.684-058	PIANO CASE AND BENCH ASSEMBLER	2	2 2	UP TO 30	DAYS
		763.684-062	PLASTIC-TOP ASSEMBLER	2	1 1	UP TO 30	DAYS
		763.684-078	WICKER WORKER	3	1 2	SIX TO 12	MONTHS
48.0703	MILLWORK AND CABINET MAKING	669.682-014	BARREL ASSEMBLER	3	2 2	THREE TO SIX	MONTHS
		669.685-030	CLAMPER	2	1 1	UP TO 30	DAYS
		760.684-010	BENCH CARPENTER	2	2 2	30 TO 90	DAYS
		760.684-014	BOX MAKER, WOOD	3	2 2	30 TO 90	DAYS
		761.684-018	PANEL-LAY-UP WORKER	3	2 2	THREE TO SIX	MONTHS
		762.484-010	REEL ASSEMBLER	2	2 2	30 TO 90	DAYS
		762.684-010	ASSEMBLER	2	2 1	30 TO 90	DAYS
		762.684-014	ASSEMBLER, COMPONENT	3	2 2	30 TO 90	DAYS
		762.684-018	ASSEMBLY OPERATOR	2	2 2	30 TO 90	DAYS
		762.684-030	CURTAIN-STRETCHER ASSEMBLER	2	2 1	UP TO 30	DAYS
		762.684-034	DOOR ASSEMBLER	2	1 1	30 TO 90	DAYS
		762.684-046	HARDWARE ASSEMBLER	2	1 1	UP TO 30	DAYS
		762.684-050	NAILER, HAND	2	1 1	30 TO 90	DAYS
		762.687-022	CLAMP-JIG ASSEMBLER	2	2 2	UP TO 30	DAYS
		762.687-030	DOOR CORE ASSEMBLER	2	1 1	UP TO 30	DAYS
		762.687-034	GLUER	2	2 2	30 TO 90	DAYS
		762.687-050	KNOCK-UP ASSEMBLER	2	1 1	UP TO 30	DAYS
		763.684-014	CABINET ASSEMBLER	3	2 3	30 TO 90	DAYS
		763.684-026	CASE FITTER	3	1 2	30 TO 90	DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7720 ASSEMBLERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		806.684-050	DOOR ASSEMBLER	3 2 1	30 TO 90 DAYS
		869.684-074	UTILITY WORKER	3 2 2	SIX TO 12 MONTHS
49.0306	MARINE MAINTENANCE	804.684-014	EXTRUSION BENDER	3 2 2	THREE TO SIX MONTHS
		806.464-010	BOAT RIGGER	3 2 1	THREE TO SIX MONTHS
		806.484-014	BOAT OUTFITTER	3 1 2	THREE TO SIX MONTHS
		806.684-022	ASSEMBLER, DECK AND HULL	3 1 1	30 TO 90 DAYS
		806.684-026	ASSEMBLER, INSULATION AND FLOORING	2 1 1	30 TO 90 DAYS
		806.684-054	FIBERGLASS LAMINATOR	3 2 1	THRE TO SIX MONTHS
		806.684-102	OUTFITTER, CABIN	3 2 2	SIX TO 12 MONTHS
		806.684-106	OVERLAY PLASTICIAN	2 1 1	THREE TO SIX MONTHS
		806.687-046	ROLLER	2 1 1	30 TO 90 DAYS
		869.684-078	VENEER STAPLER	3 1 2	THREE TO SIX MONTHS
50.0206	METAL/JEWELRY	*700.684-030	EARRING MAKER	3 2 2	30 TO 90 DAYS

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OCCUPATION: 7740

FABRICATORS, N.E.C.

These workers help process products or materials. They work in a wide variety of industries. Their duties range from filling pillows with feathers to sanding furniture parts. They often perform tasks to help prepare products for further processing. For example, some shape parts of musical instruments. They may clean and paint motor parts before they are assembled. Some wind fabric onto frames for shipment. These workers do much of their work by hand.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-CED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	509.687-018	STRINGER	1 1 1	SHORT DEMONSTRATION
		521.687-050	FILTER CHANGER	1 1 1	UP TO 30 DAYS
		522.687-042	WRAPPER-HANDS SPRAYER	2 2 1	UP TO 30 DAYS
		523.587-014	DRYING-ROOM ATTENDANT	2 1 1	UP TO 30 DAYS
		525.687-014	CASING SPLITTER	1 1 1	SHORT DEMONSTRATION
		526.687-014	STARCHMAKER	2 1 1	30 TO 90 DAYS
		529.687-034	CASING TIER	1 1 1	SHORT DEMONSTRATION
		529.687-154	MAT SEWER	2 1 1	UP TO 30 DAYS
		549.687-014	HOTHOUSE WORKER	2 2 2	UP TO 30 DAYS
		556.687-022	MOLDER, TOILET PRODUCTS	2 1 1	30 TO 90 DAYS
		559.684-010	PACK-ROOM OPERATOR	3 2 1	THREE TO SIX MONTHS
		559.687-014	AMPOULE SEALER	2 1 1	UP TO 30 DAYS
		562.687-014	RESIN COATER	2 2 2	UP TO 30 DAYS
		563.687-010	ANTICHECKING-IRON WORKER	1 1 1	UP TO 30 DAYS
		579.684-022	MICA-PLATE LAYER, HAND	2 1 1	UP TO 30 DAYS
		589.687-030	PAD MAKER	2 1 2	30 TO 90 DAYS
		590.687-014	PLASTIC-JOINT MAKER	2 1 1	30 TO 90 DAYS
		619.687-010	COIL BINDER	2 1 1	UP TO 30 DAYS
		619.687-018	PITCH FILLER	2 1 1	UP TO 30 DAYS
		641.687-010	BOX BENDER	1 1 1	SHORT DEMONSTRATION
		682.687-010	TRAVELER CHANGER	2 1 1	UP TO 30 DAYS
		685.687-026	TOPPER	1 1 1	UP TO 30 DAYS
		689.687-026	CLOTH FRAMER	2 1 1	UP TO 30 DAYS
		689.687-034	DROP-WIRE BUILDER	2 1 1	UP TO 30 DAYS
		689.687-054	PEGGER, DOBBY LOOMS	2 1 2	UP TO 30 DAYS
		689.687-078	THREADER	2 1 1	UP TO 30 DAYS
		701.687-030	POWER-CHISEL OPERATOR	2 1 1	UP TO 30 DAYS
		701.687-034	WEDGER, MACHINE	2 1 1	UP TO 30 DAYS
		706.687-018	FAN-BLADE ALINER	2 1 2	UP TO 30 DAYS
		713.687-010	CLIP COATER	2 1 1	UP TO 30 DAYS
		713.687-014	CONTACT-LENS-FLASHING PUNCHER	2 1 1	UP TO 30 DAYS
		713.687-026	LENS INSERTER	1 1 1	UP TO 30 DAYS
		713.687-038	SALVAGER	2 1 1	UP TO 30 DAYS
		725.687-022	GETTFER	1 1 1	UP TO 30 DAYS

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OCCUPATION: 7740 FABRICATORS, NOT ELSEWHERE CLASSIFIED

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		727.687-046	CELL TUBER, HAND	1	1	1	UP TO 30 DAYS
		729.687-022	MICA-WASHER GLUER	2	2	2	UP TO 30 DAYS
		731.687-014	FINISHER	2	1	1	UP TO 30 DAYS
		731.687-026	MOLD FILLER, PLASTIC DOLLS	2	1	1	30 TO 90 DAYS
		733.685-018	GROOVING-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		733.687-018	BANDER	2	1	1	UP TO 30 DAYS
		733.687-066	STAMP-PAD FINISHER	1	1	1	SHORT DEMONSTRATION
		734.684-022	SLIDE-FASTENER REPAIRER	2	2	2	UP TO 30 DAYS
		734.687-010	ACE-TONE-BUTTON PASTER	1	1	1	UP TO 30 DAYS
		734.687-034	BUCKLE-WIRE INSERTER	1	1	1	SHORT DEMONSTRATION
		737.687-078	LACQUER-PIN-PRESS OPERATOR	1	1	1	SHORT DEMONSTRATION
		737.687-134	TAPPER, HAND	1	1	1	SHORT DEMONSTRATION
		737.687-138	VARNISHING-UNIT OPERATOR	2	1	1	UP TO 30 DAYS
		739.684-158	TIRE MOUNTER	2	1	1	UP TO 30 DAYS
		739.685-054	UMBRELLA TIPPER, MACHINE	1	1	1	UP TO 30 DAYS
		739.687-078	DUST-MOP MAKER	1	1	1	UP TO 30 DAYS
		739.687-090	FILLER	1	1	1	UP TO 30 DAYS
		739.687-126	NAILER	1	1	1	UP TO 30 DAYS
		739.687-138	PART MAKER	2	1	2	30 TO 90 DAYS
		739.687-190	UMBRELLA FINISHER	1	1	1	UP TO 30 DAYS
		750.684-042	TIRE-BLADDER MAKER	2	2	2	UP TO 30 DAYS
		753.687-022	FITTER-PLACER	1	1	1	UP TO 30 DAYS
		754.687-010	LABORER, GENERAL	2	1	1	UP TO 30 DAYS
		762.687-010	BANDER	1	1	1	UP TO 30 DAYS
		762.687-062	SHEET TURNER	1	1	1	UP TO 30 DAYS
		762.687-066	VENEER-STOCK LAYER	2	1	1	UP TO 30 DAYS
		764.687-042	BUNG DRIVER	1	1	1	SHORT DEMONSTRATION
		764.687-078	HOGSHEAD HOOPER	1	1	1	UP TO 30 DAYS
		764.687-090	LEAK HUNTER	2	1	1	UP TO 30 DAYS
		764.687-094	LEVELER 1	1	1	1	UP TO 30 DAYS
		764.687-098	PLUGGER	1	1	1	SHORT DEMONSTRATION
		769.684-030	PATCHER	2	2	1	30 TO 90 DAYS
		769.687-022	FRAME TRIMMER 2	2	1	1	UP TO 30 DAYS
		772.687-010	GLASS-WORKER, PRESSED OR BLOWN	2	1	2	UP TO 30 DAYS
		774.687-014	LACER	2	1	1	UP TO 30 DAYS
		776.684-010	BELT MAKER	2	1	2	UP TO 30 DAYS
		779.687-014	CARTRIDGE LOADER	1	1	1	SHORT DEMONSTRATION
		782.687-042	RUG BRAIDER, HAND	2	1	1	UP TO 30 DAYS
		784.687-070	STICKER	1	1	1	UP TO 30 DAYS
		789.687-022	BUFFING TURNER-AND-COUNTER	1	1	1	UP TO 30 DAYS
		789.687-130	QUILT STUFFER	2	1	1	UP TO 30 DAYS
		794.687-014	COLOR-CARD MAKER	2	1	1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE			
		794.687-022	FOLDER, HAND	2	1	1 30 TO 90 DAYS
		794.687-050	SCRAPPER	2	1	1 UP TO 30 DAYS
		794.687-054	STRINGER	1	1	1 SHORT DEMONSTRATION
		794.687-058	TABBER	1	1	1 SHORT DEMONSTRATION
		795.687-014	GLUER	1	1	1 UP TO 30 DAYS
		795.687-022	LINING CEMENTER	1	1	1 SHORT DEMONSTRATION
		795.687-030	TENNIS-BALL-COVER CEMENTER	1	1	1 UP TO 30 DAYS
		920.685-022	BLOCKER	2	1	1 UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.687-030	CUTFR, HAND 3	1	1	1 UP TO 30 DAYS
		782.687-054	TAPE STRINGER	1	1	1 SHORT DEMONSTRATION
		784.687-046	LINER	2	1	1 UP TO 30 DAYS
		789.687-102	MONOGRAM-AND-LETTER PASTER	2	1	1 UP TO 30 DAYS
		789.687-154	RIVETER, HAND	2	1	1 UP TO 30 DAYS
		789.687-170	STEAMER	1	1	1 UP TO 30 DAYS
20.0406	FOOD SERVICE	529.687-122	KISS SETTER, HAND	1	1	1 THREE TO SIX MONTHS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.684-066	FILLER	2	1	1 UP TO 30 DAYS
		780.687-046	STUFFER	1	1	1 SHORT DEMONSTRATION
46.0402	CONCRETE PLACING AND FINISHING	579.587-010	ROUND-UP-RING HAND	2	1	2 30 TO 90 DAYS
47.0103	COMMUNICATION ELECTRONICS	726.687-010	ELECTRONICS WORKER	2	1	2 UP TO 30 DAYS
47.0105	INDUSTRIAL ELECTRONICS	709.687-050	TUBE BENDER, HAND 2	2	1	1 UP TO 30 DAYS
		726.684-030	ENCAPSULATOR	2	1	1 UP TO 30 DAYS
		726.687-010	ELECTRONICS WORKER	2	1	2 UP TO 30 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	529.684-018	SIEVE MAKER	2	1	1 UP TO 30 DAYS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	630.687-010	PULLEY MAINTAINER	1	1	1 30 TO 90 DAYS
47.0402	GUNSMITHING	736.684-030	FRONT-SIGHT ATTACHER	2	1	1 UP TO 30 DAYS
47.0404	MUSICAL INSTRUMENT REPAIR	730.684-014	BELL-NECK HAMMERER	2	1	1 UP TO 30 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.587-010	GOLF-BALL TRIMMER	2	1	1 UP TO 30 DAYS
		732.687-018	BASE FILLER	1	1	1 SHORT DEMONSTRATION
		732.687-026	GOLF-CLUB WEIGHTER	2	1	1 UP TO 30 DAYS
		732.687-034	LACER	2	1	1 30 TO 90 DAYS
		732.687-042	LINING INSERTER	2	1	1 UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		732.687-050	MOLD STRIPPER	1	1	1	UP TO 30 DAYS
		732.687-058	MOLDER, WAX BALL	2	1	1	UP TO 30 DAYS
47.0408	WATCH REPAIR	715.687-010	BAND ATTACHER	1	1	1	UP TO 30 DAYS
		715.687-030	FOOT STRAIGHTENER	2	1	1	UP TO 30 DAYS
		715.687-038	HAIRSPRING CUTTER 1	2	1	1	UP TO 30 DAYS
		715.687-046	HAMMER ADJUSTER	1	1	1	SHORT DEMONSTRATION
		715.687-078	MAINSRING FORMER, ARBOR END	2	1	2	UP TO 30 DAYS
		715.687-082	MAINSRING FORMER, BRACE END	2	1	1	UP TO 30 DAYS
		715.687-094	MOUNTER, CLOCK AND WATCH HANDS	1	1	1	UP TO 30 DAYS
		715.687-122	SPRING LAYER	2	1	1	UP TO 30 DAYS
48.0202	BOOKBINDING	794.687-026	FORWARDER	2	1	1	30 TO 90 DAYS
		794.687-030	GLUER AND SLICER, HAND	2	1	1	UP TO 30 DAYS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	654.687-014	PAGFR	2	1	1	UP TO 30 DAYS
48.0303	UPHOLSTERING	780.684-066	FILLER	2	1	1	UP TO 30 DAYS
		780.687-010	BORDER MEASURER AND CUTTER	1	1	1	SHORT DEMONSTRATION
		780.687-014	CLIPPER AND TURNER	1	1	1	UP TO 30 DAYS
		780.687-046	STUFFER	1	1	1	SHORT DEMONSTRATION
		780.687-050	TUFTER, HAND	2	1	1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	753.684-030	ROLLER-STITCHER	2	1	1	UP TO 30 DAYS
		753.687-014	DEBRANDER	1	1	1	UP TO 30 DAYS
		753.687-030	MOLD FILLER AND DRAINER	2	1	1	UP TO 30 DAYS
		788.687-010	ANTISQUEAK FILLER	1	1	1	UP TO 30 DAYS
		788.687-014	BOTTOM BLEACHER	1	1	1	UP TO 30 DAYS
		788.687-030	CEMENTER, HAND	2	1	1	UP TO 30 DAYS
		788.687-094	MOLDER, SHCE PARTS	2	1	1	UP TO 30 DAYS
		788.687-102	PEGGER	2	1	1	UP TO 30 DAYS
		788.687-118	SHANK-PIECE TACKER	1	1	1	UP TO 30 DAYS
		788.687-142	TABLE WORKER	2	1	1	UP TO 30 DAYS
		788.687-154	VAMP CREASER	2	1	1	UP TO 30 DAYS
		788.687-158	VAMP-STRAP IRONER	1	1	1	UP TO 30 DAYS
		788.687-162	WEIT-BUTTER, HAND	2	1	1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	512.687-010	CONDENSER SETTER	2	1	1	UP TO 30 DAYS
		512.687-014	THIRD HELPER	2	1	1	30 TO 90 DAYS
		514.567-010	MOLD WORKER	2	1	1	30 TO 90 DAYS
		518.687-014	FOUNDRY LABORER, COREROOM	2	1	1	UP TO 30 DAYS
		519.667-010	CARBON SETTER	3	1	1	30 TO 90 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		519.687-010	CELL PLASTERER	2 1 1	30 TO 90 DAYS
		519.687-034	RODDING-ANODE WORKER	2 1 1	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	701.687-018	COLD-PRESS LOADER	2 1 2	30 TO 90 DAYS
48.0504	METAL FABRICATION	709.687-062	WIRE-BASKET MAKER	2 1 1	UP TO 30 DAYS
48.0506	SHEET METAL	703.685-010	PAIL BAILER	3 1 2	30 TO 90 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	573.687-010	BEDDER	2 1 1	30 TO 90 DAYS
		579.684-018	KILN-FURNITURE CASTER	2 1 1	THREE TO SIX MONTHS
		673.687-010	JOINER	2 1 1	UP TO 30 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-062	PREPARER	2 1 1	UP TO 30 DAYS
		734.687-046	BUITON-AND-BUCKLE MAKER	2 1 1	30 TO 90 DAYS
		734.687-058	HOT-STONE SETTER	1 1 1	UP TO 30 DAYS
		735.687-034	STONE SETTER	1 1 1	UP TO 30 DAYS
		735.687-042	WIRE DRAWER	2 1 1	UP TO 30 DAYS
		770.687-010	ARTIFICIAL-PEARL MAKER	1 1 1	UP TO 30 DAYS
49.0306	MARINE MAINTENANCE	809.667-010	HULL AND DECK REMOVER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 7750

HAND WORKING OCCUPATIONS

These workers perform jobs that must be done by hand. They may sew trimmings and buttons or weave cloth. Others cast or mold products in wax, plastic, or plaster. Some shape dough or archery bows. Some roll and trim cigars. They may dip candy, tint fishing lures, or stain and wax furniture. Some engrave or etch letters in metal or letter posters. Handworkers may also grind and polish watch parts, plastic eyes for implants, or remove defects in molds.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7752

HAND SEWING OCCUPATIONS

People in these jobs sew or weave items such as fabric or cloth, using handtools or hand-held power tools. Some mend torn or damaged items. Others sew trimmings, casings, stuffed toys, button holes, or shoes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	683.684-030	WEAVER, HAND LOOM	4	1	2	ONE TO TWO YEARS
		687.684-010	RUG HOOKER	3	1	2	SIX TO 12 MONTHS
		739.384-014	FOUNDATION MAKER	3	2	1	SIX TO 12 MONTHS
		739.684-162	UMBRELLA TIPPER, HAND	2	1	1	UP TO 30 DAYS
		782.684-042	MENDER	3	1	2	THREE TO SIX MONTHS
		782.684-062	WEAVER, HAND	2	1	2	30 TO 90 DAYS
		782.687-018	CLOTH-BALE HEADER	1	1	1	UP TO 30 DAYS
		782.687-046	SACK REPAIRER	2	1	1	UP TO 30 DAYS
		789.484-014	FINISHER, HAND	3	1	2	SIX TO 12 MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	782.684-030	HOSIFRY MENDER	3	1	2	THREE TO SIX MONTHS
		782.684-050	PASSEMENTERIE WORKER	2	1	1	THREE TO SIX MONTHS
		782.687-058	THREAD MARKER	2	1	2	UP TO 30 DAYS
		784.684-022	DECORATOR	2	1	2	30 TO 90 DAYS
		784.684-042	HAT MAKER	3	1	2	SIX TO 12 MONTHS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	782.684-050	PASSEMENTERIE WORKER	2	1	1	THREE TO SIX MONTHS
		782.684-058	SEWER, HAND	2	1	1	30 TO 90 DAYS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	782.684-058	SEWER, HAND	2	1	1	30 TO 90 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.684-034	BASEBALL SEWER, HAND	2	1	1	30 TO 90 DAYS
		732.684-050	FEATHER STITCHER	2	1	1	30 TO 90 DAYS
48.0202	BOOKBINDING	977.684-022	STITCHER, HAND	2	1	1	THREE TO SIX MONTHS
48.0304	SHOE AND BOOT REPAIR	788.684-054	HAND SEWER, SHOES	2	1	1	UP TO 30 DAYS
		788.684-110	SOLF SEWER, HAND	3	1	3	ONE TO TWO YEARS
48.0403	SLAUGHTERING AND BUTCHERING	529.687-030	CASING SEWER	2	1	1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
 TRAINING PROGRAM AND OCCUPATIONAL REPORT
 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 7753

HAND CUTTING AND TRIMMING OCCUPATIONS

People in these jobs use handtools and hand-held power tools to cut and trim articles. They work in a variety of industries and with a variety of materials. For example, they may butcher livestock, bone meats, cut grooves in stone, cut mirror glass to size, make buttonholes for shoes, or trim hat brims. Some jobs require that workers be able to follow layout sheets or working drawings and use measuring devices.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	525.684-014	BUTCHER, FISH	1 1 1	UP TO 30 DAYS
		525.684-030	FISH CLEANER	1 1 1	UP TO 30 DAYS
		585.681-010	FLESHER	3 1 2	ONE TO TWO YEARS
		585.681-014	FUR PLUCKER	3 1 2	ONE TO TWO YEARS
		585.684-010	TRIMMER, HAND	1 1 1	UP TO 30 DAYS
		590.687-022	RUG CUTTER	1 1 1	SHORT DEMONSTRATION
		700.684-038	GOLD CUTTER	3 1 2	THREE TO SIX MONTHS
		734.384-010	BUTTON-CUTTING-MACHINE OPERATOR	2 1 1	30 TO 90 DAYS
		739.684-126	MAT CUTTER	2 1 1	UP TO 30 DAYS
		750.684-034	TIRE TRIMMER, HAND	2 1 2	UP TO 30 DAYS
		751.387-010	STOCK PREPARER	2 1 1	30 TO 90 DAYS
		751.684-014	CUTTER, HAND	2 1 1	UP TO 30 DAYS
		751.684-026	PREFORM PLATE MAKER	3 2 2	SIX TO 12 MONTHS
		751.687-010	HOSE CUTTER, HAND	2 1 1	30 TO 90 DAYS
		754.684-030	FINISHER, HAND	2 1 1	30 TO 90 DAYS
		769.684-042	SAMPLE MAKER, VENEER	2 1 1	30 TO 90 DAYS
		769.684-050	STOCK-PARTS FABRICATOR	3 1 1	30 TO 90 DAYS
		771.384-010	COPER, HAND	3 1 2	30 TO 90 DAYS
		771.684-010	ROCK SPLITTER	3 1 1	ONE TO TWO YEARS
		775.684-046	LEVEL-VIAL MARKER	2 1 2	30 TO 90 DAYS
		779.584-010	PATTERNMAKER	3 2 2	ONE TO TWO YEARS
		779.681-010	MICA SPLITTER	3 2 3	THREE TO SIX MONTHS
		779.684-054	SECOND CUTTER	2 2 2	30 TO 90 DAYS
		779.687-030	MICA SIZER	2 2 1	30 TO 90 DAYS
		781.684-010	CARPET CUTTER 1	2 2 2	THREE TO SIX MONTHS
		781.684-018	CUTTER, ROTARY SHEAR	2 1 2	30 TO 90 DAYS
		781.684-046	RUG CLIPPER	2 2 2	30 TO 90 DAYS
		789.684-022	HAIR CLIPPER, POWER	2 1 1	UP TO 30 DAYS
		789.687-126	POMPOM MAKER	1 1 1	SHORT DEMONSTRATION
		794.687-062	TRIMMER, HAND	1 1 1	SHORT DEMONSTRATION
		809.687-010	DUCT MAKER	2 1 2	UP TO 30 DAYS
03.0404	FOREST PRODUCTS PROCESSING TECHNOLOGY	569.684-010	LOG PEELER	2 1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.584-010	CUTTER APPRENTICE, HAND	3 1 2	SIX TO 12 MONTHS

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OCCUPATION: 7753 HAND CUTTING AND TRIMMING OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		781.584-014	CUTTER, HAND 1	3 1 2	SIX TO 12 MONTHS
		781.684-014	CUTTER, MACHINE 1	3 2 2	SIX TO 12 MONTHS
		781.684-054	SLITTER	2 1 1	UP TO 30 DAYS
		781.687-070	TRIMMER, HAND	2 1 1	UP TO 30 DAYS
		783.684-022	LEATHER CUTTER	3 2 2	THREE TO SIX MONTHS
		783.687-014	FUR TRIMMER	2 1 2	30 TO 90 DAYS
		784.684-010	BOW MAKER	2 1 2	30 TO 90 DAYS
		784.684-050	ROUNDER, HAND	2 1 1	UP TO 30 DAYS
		789.684-050	THREAD CUTTER	2 1 1	UP TO 30 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	781.584-014	CUTTER, HAND 1	3 1 2	SIX TO 12 MONTHS
		781.684-014	CUTTER, MACHINE 1	3 2 2	SIX TO 12 MONTHS
		781.684-034	LAY-OUT-MACHINE OPERATOR	3 1 1	THREE TO SIX MONTHS
46.0405	FLOOR COVERING INSTALLATION	789.484-010	DIAGRAMMER AND SEAMER	4 4 3	SIX TO 12 MONTHS
		929.381-010	CARPET CUTTER	3 2 2	SIX TO 12 MONTHS
46.0406	GLAZING	775.684-022	GLASS CUTTER	3 2 1	THREE TO SIX MONTHS
		775.684-026	GLASS FINISHER	3 2 2	SIX TO 12 MONTHS
		779.684-022	GLASS CUTTER, OVAL OR CIRCULAR	2 1 2	30 TO 90 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	629.684-014	MILLER, HEAD, ASSISTANT, WET PROCES	2 1 2	SIX TO 12 MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.687-078	TARGET TRIMMER	2 1 1	UP TO 30 DAYS
47.0408	WATCH REPAIR	715.684-162	PEARLER	2 1 1	UP TO 30 DAYS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKIN	979.684-014	ENGRAVER 2	3 1 1	ONE TO TWO YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.487-010	PHOTOGRAPH FINISHER	2 1 1	UP TO 30 DAYS
		976.684-018	MOUNTER, HAND	2 1 1	UP TO 30 DAYS
48.0303	UPHOLSTERING	781.584-010	CUTTER APPRENTICE, HAND	3 1 2	SIX TO 12 MONTHS
		781.684-014	CUTTER, MACHINE 1	3 2 2	SIX TO 12 MONTHS
48.0304	SHOE AND BOOT REPAIR	751.684-018	CUTTER, HOT KNIFE	2 1 2	30 TO 90 DAYS
		751.684-022	FOXING CUTTER, HOT KNIFE	2 1 1	UP TO 30 DAYS
		783.684-022	LEATHER CUTTER	3 2 2	THREE TO SIX MONTHS
		788.684-038	BUTTONHOLE MAKER	2 1 1	30 TO 90 DAYS
		788.684-042	CRIPPLE WORKER	3 1 1	30 TO 90 DAYS
		788.684-082	OUTSIDE CUTTER, HAND	3 2 2	THREE TO SIX MONTHS
		788.687-150	TRIMMER, HAND	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7753 HAND CUTTING AND TRIMMING OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
48.0403	SLAUGHTERING AND BUTCHERING	525.664-010	MEAT DRESSER	3 2 2	ONE TO TWO YEARS
		525.684-010	BONER, MEAT	2 1 2	THREE TO SIX MONTHS
		525.684-018	CARCASS SPLITTER	2 2 1	30 TO 90 DAYS
		525.684-022	CRAB BUTCHER	1 1 1	UP TO 30 DAYS
		525.684-026	FINAL-DRESSING CUTTER	3 1 1	THREE TO SIX MONTHS
		525.684-034	HEAD TRIMMER	2 1 1	30 TO 90 DAYS
		525.684-038	OFFAL SEPARATOR	2 1 1	UP TO 30 DAYS
		525.684-046	SKINNER	2 2 1	UP TO 30 DAYS
		525.684-050	STICKER, ANIMAL	2 2 1	30 TO 90 DAYS
		525.684-054	TRIMMER, MEAT	1 1 1	UP TO 30 DAYS
		525.684-058	TURKEY-ROLL MAKER	2 1 1	UP TO 30 DAYS
48.0506	SHEET METAL	703.684-018	TEMPLATE CUTTER	2 2 2	UP TO 30 DAYS
		804.684-018	ROUTER OPERATOR, PORTABLE	3 1 1	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	575.684-022	CROSSCUTTER, ROLLED GLASS	2 1 2	UP TO 30 DAYS
		575.684-038	MOLD MAKER, TERRA COTTA	2 1 1	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATON, AND REPAIR	700.684-018	BRIGHT CUTTER	3 2 2	30 TO 90 DAYS
		700.684-050	MESH CUTTER	3 1 2	30 TO 90 DAYS
48.0702	FURNITURE MAKING	763.684-066	SLOT ROUTER	2 2 2	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	899.684-030	PORTABLE SAWYER	3 2 1	30 TO 90 DAYS
49.0306	MARINE MAINTENANCE	781.384-018	SAIL CUTTER	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 7754

HAND HOLDING AND CASTING OCCUPATIONS

People in these jobs mold or cast products or parts, using hand-held tools. They may use wax, plaster, concrete, metal, plastic, or other materials to make articles. They make items such as plaster dies, concrete vaults, wax candles, or metal parts. They assemble molds, measure and mix materials, pour or feed materials into the molds, and clean and finish cast articles. They may move large molds with hoists, heat metal or wax in melting pots, engrave letters or designs on molds or castings, and clean used molds.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	556.684-014	ENCAPSULATOR	3	2 1	THREE TO SIX MONTHS
		556.684-026	RUBBER MOLDER	2	1 1	THREE TO SIX MONTHS
		739.684-010	ARTIFICIAL-CANDY MAKER	3	2 2	SIX TO 12 MONTHS
		739.687-054	CANDLE MOLDER, HAND	2	1 1	30 TO 90 DAYS
		752.684-026	CATHETER BUILDER	2	1 1	THREE TO SIX MONTHS
		754.684-022	CASTER	2	1 2	THREE TO SIX MONTHS
		754.684-038	PLASTIC DUPLICATOR	3	2 2	SIX TO 12 MONTHS
		774.684-026	PLASTER-DIE MAKER	3	1 1	SIX TO 12 MONTHS
		779.684-010	CEMENT FITTINGS MAKER	2	1 2	THREE TO SIX MONTHS
		779.684-014	CONCRETE-PIPE MAKER	2	1 2	30 TO 90 DAYS
		779.684-050	PLASTIC MOLDER	3	1 2	30 TO 90 DAYS
		844.681-010	CELL MAKER	3	2 2	SIX TO 12 MONTHS
17.0103	DENTAL LABORATORY TECHNOLOGY	712.684-034	PACKER, DENTURE	3	2 3	SIX TO 12 MONTHS
46.0402	CONCRETE PLACING AND FINISHING	575.684-034	LAUNDRY-TUB MAKER	3	2 2	THREE TO SIX MONTHS
		579.684-010	CONCRETE-VAULT MAKER	2	1 1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	753.584-010	MACHINE-MADE-SHOE UNIT WORKER	2	1 2	UP TO 30 DAYS
48.0502	FOUNDRY WORK	502.684-010	LEAD CASTER	2	2 2	30 TO 90 DAYS
		502.684-022	NEEDLE LEADER	2	2 2	UP TO 30 DAYS
		514.684-010	CASTER	2	1 1	THREE TO SIX MONTHS
		514.684-014	LADLE POURER	2	1 1	THREE TO SIX MONTHS
		514.684-022	POURER, METAL	2	1 1	UP TO 30 DAYS
		518.484-010	PLASTER MOLDER 2	3	1 2	THREE TO SIX MONTHS
		519.687-030	MACHINE-CASTINGS PLASTERER	2	1 1	UP TO 30 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	518.484-010	PLASTER MOLDER 2	3	1 2	THREE TO SIX MONTHS
		519.687-030	MACHINE-CASTINGS PLASTERER	2	1 1	UP TO 30 DAYS
		556.484-010	SCAGLIOLA MECHANIC	2	2 1	SIX TO 12 MONTHS
		575.684-014	CASTER	3	1 1	SIX TO 12 MONTHS
		575.684-018	CASTER	2	1 1	THREE TO SIX MONTHS
		575.684-030	HANDLE MAKER	2	1 1	30 TO 90 DAYS

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OCCUPATION: 7754 HAND MOLDING AND CASTING OCCUPATIONS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		575.684-042	MOLDER, HAND	3	1 1	30 TO 90 DAYS
		575.684-046	TERRAZZO-TILE MAKER	2	1 1	30 TO 90 DAYS
		575.684-050	CULTURED-MARBLE-PRODUCTS MAKER	3	2 3	SIX TO 12 MONTHS
		700.687-022	CASTER HELPER	2	1 1	30 TO 90 DAYS
		772.684-022	WATCH-CRYSTAL MOLDER	3	1 1	THREE TO SIX MONTHS
		777.684-014	MOLD MAKER	3	1 2	SIX TO 12 MONTHS
		779.684-046	PLASTER MAKER	3	1 2	SIX TO 12 MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-022	CASTER HELPER	2	1 1	30 TO 90 DAYS
48.0604	PLASTICS	556.684-018	MOLD-FILLING OPERATOR	2	1 1	THREE TO SIX MONTHS
		559.684-014	PLASTIC MIXER	2	2 2	THREE TO SIX MONTHS
		777.684-014	MOLD MAKER	3	1 2	SIX TO 12 MONTHS

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OCCUPATION: 7755

HAND FORMING AND SHAPING OCCUPATIONS

People in these jobs form or shape materials into products or parts, using hand-held tools. They work in a variety of industries. They may shape dough, candy, clay, fabric, glass, metal, or other material. They may shape material by rolling it to a desired thickness; guiding it through a machine; or cutting, kneading, filing, or pressing it. They use tools such as knives, scissors, hand irons, sanders, or torches. They may weigh and mix ingredients. They may check finished products for defects and may keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	739.684-018	BROOMMAKER	2 1 1	THREE TO SIX MONTHS
		752.684-018	BIT BENDER	2 1 1	30 TO 90 DAYS
		769.684-018	BENDER, HAND	2 1 1	UP TO 30 DAYS
		772.684-010	DEFECT REPAIRER, GLASSWARE	2 1 2	30 TO 90 DAYS
		772.684-014	HOT-WIRE GLASS-TUBE CUTTER	2 1 1	UP TO 30 DAYS
		772.684-018	WARM-IN WORKER	2 1 1	30 TO 90 DAYS
		774.684-030	SAGGER MAKER	2 1 1	30 TO 90 DAYS
		774.684-038	TURNER	3 2 2	ONE TO TWO YEARS
		789.684-014	BUFFING-WHEEL FORMER, HAND	2 1 1	30 TO 90 DAYS
		789.684-042	RAWHIDE-BONE ROLLER	2 1 1	UP TO 30 DAYS
		790.684-010	BUNCH MAKER, HAND	2 2 1	THREE TO SIX MONTHS
		790.684-014	CIGAR MAKER	2 2 2	SIX TO 12 MONTHS
		790.684-022	ROLLER, HAND	2 2 2	SIX TO 12 MONTHS
		806.684-086	MOLD LAMINATOR	3 1 1	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	580.684-010	BLOCKER, HAND 1	2 1 2	30 TO 90 DAYS
		580.684-014	BLOCKER, HAND 2	2 1 2	UP TO 30 DAYS
		583.684-010	PLEATER, HAND	2 1 2	30 TO 90 DAYS
		583.684-014	WAIST PLEATER	2 1 2	THREE TO SIX MONTHS
		784.684-018	CAP MAKER	2 1 2	THREE TO SIX MONTHS
		784.684-026	FLANGER	2 1 2	UP TO 30 DAYS
		784.684-054	SIZER, HAND	2 1 1	30 TO 90 DAYS
		784.684-066	SMOOTHER	1 1 1	UP TO 30 DAYS
		789.684-010	BOW MAKER	2 1 2	30 TO 90 DAYS
		789.684-026	MOLDER, SHOULDER PAD	2 1 1	UP TO 30 DAYS
20.0402	BAKING	520.384-010	BENCH HAND	3 2 2	ONE TO TWO YEARS
20.0406	FOOD SERVICE	520.684-010	ALMOND-PASTE MOLDER	2 1 2	SIX TO 12 MONTHS
		520.684-014	ROLLER 1	3 2 2	30 TO 90 DAYS
		520.687-018	CANDY MOLDER, HAND	2 1 1	30 TO 90 DAYS
46.0302	ELECTRICIAN	709.684-090	TUBE BENDER, HAND 1	3 1 1	THREE TO SIX MONTHS

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OCCUPATION: 7755 HAND FORMING AND SHAPING OCCUPATIONS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.364-014	SKI-BINDING FITTER-AND-REPAIRER	4 3 3	SIX TO 12 MONTHS
		732.684-010	ARROWSMITH	2 2 2	UP TO 30 DAYS
		732.684-038	BOW MAKER, PRODUCTION	3 3 2	SIX TO 12 MONTHS
		732.684-106	SHAPER, BASEBALL GLOVE	2 1 1	UP TO 30 DAYS
		732.684-110	SKI BASE TRIMMER	2 1 1	UP TO 30 DAYS
		732.684-114	SKI MOLDER	3 1 2	30 TO 90 DAYS
		732.684-118	SKI REPAIRER, PRODUCTION	2 1 1	SIX TO 12 MONTHS
		732.687-010	ADHESIVE PRIMER	1 1 1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	788.684-130	WRINKLE CHASER	2 1 1	UP TO 30 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	705.684-018	FILER AND SANDER	2 1 1	30 TO 90 DAYS
		705.684-038	MOLD FINISHER	3 2 2	SIX TO 12 MONTHS
		709.484-014	STRAIGHTENER, HAND	3 2 2	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	706.684-110	WRAPPER OPERATOR	2 2 2	UP TO 30 DAYS
		709.684-010	ADJUSTER	2 2 2	30 TO 90 DAYS
48.0507	TOOL AND DIE MAKING	705.684-038	MOLD FINISHER	3 2 2	SIX TO 12 MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	575.684-010	BATTER-OUT	2 1 2	THREE TO SIX MONTHS
		575.684-026	GATHERER	2 1 2	SIX TO 12 MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.684-074	SPINNER	3 2 2	SIX TO 12 MONTHS
		700.684-078	STRETCHER	2 1 2	30 TO 90 DAYS

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OCCUPATION: 7756

HANDPAINTING, COATING, AND DECORATING OCCUPATIONS

These people paint, coat, or decorate articles by hand. They work in a variety of industries. They read work orders or look at drawings to determine the work to be done. They may take objects apart and clean them before they work on them. They may measure and mix ingredients to make coating solutions or paints of a certain color. They work with their hands and use tools such as brushes, sprayers, cloths, tubes, stencils, and sandpaper.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	503.684-010	CLEANER	2 1 1	30 TO 90 DAYS
		524.684-022	ICER, HAND	2 1 1	30 TO 90 DAYS
		574.684-010	GROUND LAYER	2 1 1	30 TO 90 DAYS
		584.684-010	LATEXER	2 1 2	30 TO 90 DAYS
		599.687-010	BALLOON DIPPER	2 1 1	UP TO 30 DAYS
		700.684-054	OXIDIZER	2 1 2	UP TO 30 DAYS
		713.684-042	WASHER	2 1 1	30 TO 90 DAYS
		727.687-034	BATTERY-CONTAINER-FINISHING HAND	1 1 1	UP TO 30 DAYS
		729.684-018	DIAL MARKER	2 2 2	UP TO 30 DAYS
		737.687-130	SHFLIACKER	2 1 1	30 TO 90 DAYS
		739.384-018	HAIR PREPARER	3 1 1	TWO TO FOUR YEARS
		739.687-174	STAINER	2 1 1	UP TO 30 DAYS
		740.484-010	STRIPER, HAND	3 2 2	ONE TO TWO YEARS
		740.684-014	DECORATOR	3 1 1	SIX TO 12 MONTHS
		740.684-022	PAINTER, BRUSH	2 1 1	UP TO 30 DAYS
		740.684-026	TOUCH-UP PAINTER, HAND	2 1 1	UP TO 30 DAYS
		740.687-010	BUTTON SPINDLER	1 1 1	UP TO 30 DAYS
		740.687-014	FUNNEL COATER, HAND	1 1 1	UP TO 30 DAYS
		740.687-018	PAINTER, EMBOSSED OR IMPRESSED LETT	2 1 1	UP TO 30 DAYS
		740.687-022	PAINTER, PANEL EDGE	1 1 1	UP TO 30 DAYS
		741.684-010	ARTIST, MANNEQUIN COLORING	3 1 2	THREE TO SIX MONTHS
		741.684-014	FOAM-GUN OPERATOR	3 2 2	30 TO 90 DAYS
		741.684-018	PAINTER, AIRBRUSH	3 1 1	SIX TO 12 MONTHS
		741.684-022	PAINTER, MIRROR	3 2 2	THREE TO SIX MONTHS
		741.687-018	PAINTER, SPRAY 2	2 1 1	UP TO 30 DAYS
		741.687-022	STRIPER, SPRAY GUN	2 1 1	UP TO 30 DAYS
		742.684-010	RUBBER	2 1 1	30 TO 90 DAYS
		742.684-014	STAINER	2 1 1	30 TO 90 DAYS
		749.684-010	DECAL APPLIER	2 1 1	UP TO 30 DAYS
		749.684-018	DECORATOR, LIGHTING FIXTURES	3 1 2	30 TO 90 DAYS
		749.684-022	EDGE STAINER 2	2 1 1	30 TO 90 DAYS
		749.684-026	FINISHER	2 1 1	THREE TO SIX MONTHS
		749.684-030	FRAME TRIMMER 1	2 1 1	UP TO 30 DAYS
		749.684-038	PAINTER, TOUCH-UP	3 1 1	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7756 HAND PAINTING, COATING AND DECORATING OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
		749.684-042	PUTTY GLAZER	2 1 1	30 TO 90 DAYS
		749.684-046	STOVE REFINISHER	2 1 1	30 TO 90 DAYS
		749.687-014	KEG VARNISHER	1 1 1	UP TO 30 DAYS
		749.687-022	PAINTER, SKI EDGE	2 1 1	UP TO 30 DAYS
		749.687-026	PLASTERER	2 1 1	UP TO 30 DAYS
		763.687-022	DRAWER WAXER	1 1 1	SHORT DEMONSTRATION
		764.687-026	BARREL LINER	2 1 1	UP TO 30 DAYS
		773.684-010	COLORER	3 2 3	THREE TO SIX MONTHS
		773.684-014	PASTER	2 1 1	30 TO 90 DAYS
		774.684-014	DIPPER	3 1 1	SIX TO 12 MONTHS
		779.687-018	GLASS-BULB SILVERER	1 1 1	UP TO 30 DAYS
		781.687-054	RUG-BACKING STENCILER	2 1 1	30 TO 90 DAYS
		783.681-010	FUR BLENDER	3 1 2	ONE TO TWO YEARS
		920.687-026	BANDER, HAND	1 1 1	SHORT DEMONSTRATION
		920.687-178	STENCILER	1 1 1	UP TO 30 DAYS
17.0103	DENTAL LABORATORY TECHNOLOGY	712.684-630	OPAQUER	3 2 2	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	782.684-054	PINNER	2 1 1	30 TO 90 DAYS
20.0402	BAKING	524.684-014	DECORATOR	2 1 1	30 TO 90 DAYS
20.0406	FOOD SERVICE	524.684-010	CANDY DIPPER, HAND	2 1 1	THREE TO SIX MONTHS
		524.684-018	ENROBING-MACHINE CORDER	2 1 1	THREE TO SIX MONTHS
46.0404	DRYWALL INSTALLATION	842.684-010	DRY-WALL SPRAYER	3 2 1	THREE TO SIX MONTHS
46.0408	PAINTING AND DECORATING	599.682-010	PAINTER, ELECTROSTATIC	3 2 3	THREE TO SIX MONTHS
		842.684-010	DRY-WALL SPRAYER	3 2 1	THREE TO SIX MONTHS
47.0105	INDUSTRIAL ELECTRONICS	721.687-010	CLEANER AND PREPARER	1 1 1	UP TO 30 DAYS
47.0107	MOTOR REPAIR	721.687-010	CLEANER AND PRPREARER	1 1 1	UP TO 30 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.687-062	PAINTER AND GRADER, CORK	2 1 1	UP TO 30 DAYS
47.0408	WATCH REPAIR	715.684-138	LACQUERER	1 1 1	UP TO 30 DAYS
		715.687-098	PAINTER, CLOCK AND WATCH HANDS	1 1 1	UP TO 30 DAYS
47.0603	AUTOMOTIVE BODY REPAIR	741.684-026	PAINTER, SPRAY 1	3 2 2	SIX TO 12 MONTHS
		843.684-014	UNDERCOATER	2 1 1	30 TO 90 DAYS
		845.687-010	DEADENER	1 1 1	SHORT DEMONSTRATION

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OCCUPATION: 7756 HAND PAINTING, COATING AND DECORATING OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0202	BOOKBINDING	749.687-010	DIPPER AND DRIER	1 1 1	UP TO 30 DAYS
		977.684-014	INLAYER	3 1 1	THREE TO SIX MONTHS
48.0203	COMMERCIAL ART	970.681-014	COLORER	3 1 2	THREE TO SIX MONTHS
48.0205	TYPESETTING, MAKE-UP, AND COMPOSITION	971.684-010	BLOCKER 2	3 2 2	THREE TO SIX MONTHS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	971.684-014	STAGER	3 2 1	THREE TO SIX MONTHS
48.0210	PHOTOENGRAVING	*971.684-010	BLOCKER 2	3 2 2	THREE TO SIX MONTHS
		*971.684-014	STAGER	3 2 1	THREE TO SIX MONTHS
48.0304	SHOE AND BOOT REPAIR	788.684-066	INKER	2 1 1	UP TO 30 DAYS
		788.687-098	PAINTER, BOTTOM	1 1 1	UP TO 30 DAYS
		788.687-166	WHITE-SHOE RAGGER	1 1 1	UP TO 30 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	709.684-022	BABBITTER	3 2 1	ONE TO TWO YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-014	BOILER-OUT	2 1 1	UP TO 30 DAYS
		735.687-018	PAINTER	2 1 2	UP TO 30 DAYS
		740.684-010	CHARGER 1	3 1 1	30 TO 90 DAYS
		740.684-018	ENAMELER	3 2 2	THREE TO SIX MONTHS
		749.684-034	LACQUERER	3 2 1	30 TO 90 DAYS
48.0604	PLASTICS	554.684-010	CAUSTIC OPERATOR	2 1 1	30 TO 90 DAYS
48.0702	FURNITURE MAKING	742.687-010	WIPER	2 1 1	UP TO 30 DAYS
		749.684-014	DECORATOR	2 1 1	THREE TO SIX MONTHS
		749.687-030	STRIPPER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7757

HAND ENGRAVING AND PRINTING OCCUPATIONS

People in these jobs engrave, print, or etch letters and designs on objects by hand. They use handtools or hand-held power tools to engrave printing plates, etch trademarks on silverware or print lettering on posters. They use drawing and measuring tools and may cut, sand, coat, or clean articles before they engrave or imprint them. They also check their work for defects and may keep production records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	704.382-010	ENGRAVER, PANTOGRAPH 1	3 2 2	ONE TO TWO YEARS
		704.582-010	ENGRAVER, MACHINE 2	3 2 2	30 TO 90 DAYS
		704.682-010	ENGRAVER, MACHINE 1	3 2 2	30 TO 90 DAYS
		704.682-014	ENGRAVER, PANTOGRAPH 2	3 2 2	30 TO 90 DAYS
		704.684-010	ETCHER	3 2 2	ONE TO TWO YEARS
		704.687-014	ETCHER, HAND	2 1 1	30 TO 90 DAYS
		709.684-054	MOLD STAMPER	3 3 3	ONE TO TWO YEARS
		713.684-022	EMBOSSER	2 1 1	30 TO 90 DAYS
		716.681-022	OPTICAL-GLASS ETCHER	3 2 2	THREE TO SIX MONTHS
		979.684-010	CARBON PRINTER	3 1 1	SIX TO 12 MONTHS
47.0105	INDUSTRIAL ELECTRONICS	590.684-018	ETCHED-CIRCUIT PROFESSOR	3 3 3	THREE TO SIX MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.584-010	BOWLING-BALL ENGRAVER	2 1 2	30 TO 90 DAYS
47.0408	WATCH REPAIR	715.684-190	TRANSFERRER	3 1 1	30 TO 90 DAYS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATE MAKING	979.581-010	ENGRAVER, RUBBER	3 1 1	ONE TO TWO YEARS
		979.681-018	ROLLER ENGRAVER, HAND	3 2 2	TWO TO FOUR YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.684-010	DENSITY CONTROL PUNCHER	3 1 1	THREE TO SIX MONTHS
48.0208	PRINTING PRESS OPERATIONS	726.687-018	SILK-SCREEN PRINTER	2 2 2	UP TO 30 DAYS
48.0209	SILK SCREEN MAKING AND PRINTING	704.684-014	SILK-SCREEN ETCHER	2 1 1	30 TO 90 DAYS
		710.684-018	DIAL MAKER	3 2 2	THREE TO SIX MONTHS
		726.687-018	SILK-SCREEN PRINTER	2 2 2	UP TO 30 DAYS
		979.684-030	SCREEN PRINTER	3 2 2	30 TO 90 DAYS
		979.684-034	SCREEN PRINTER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 7758

HAND GRINDING AND POLISHING OCCUPATIONS

People in these jobs grind and polish products or parts to smooth them or remove defects. They use grinding wheels, sandpaper, and polishing stones. They work in a variety of industries. They may repair defects in molds used for castings, polish plastic eye implants, grind watch parts, buff scratched mirrors, or file marble slabs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	703.687-022	STEEL-BARREL REAMER	1 1 1	UP TO 30 DAYS
		705.684-022	GREASE BUFFER	3 1 2	THREE TO SIX MONTHS
		705.684-050	NIB FINISHER	2 1 2	THREE TO SIX MONTHS
		709.684-058	REAMER, HAND	3 1 2	SIX TO 12 MONTHS
		713.687-034	POLISHER, IMPLANT	2 1 1	UP TO 30 DAYS
		734.687-054	GRINDER, HAND	1 1 1	UP TO 30 DAYS
		739.684-026	BUFFER	2 1 1	30 TO 90 DAYS
		739.684-074	FRAME REPAIRER	2 2 2	30 TO 90 DAYS
		752.684-022	BUFFER	2 1 1	UP TO 30 DAYS
		761.684-010	GOLF-CLUB FACER	3 2 1	THREE TO SIX MONTHS
		769.684-026	OIL DIPPER	2 1 1	30 TO 90 DAYS
		771.484-010	BEVELER	3 2 2	SIX TO 12 MONTHS
		775.664-010	STONE POLISHER, HAND	2 1 1	THREE TO SIX MONTHS
		775.684-014	EDGER, HAND	2 2 2	UP TO 30 DAYS
		775.684-034	GLASS GRINDER	2 2 2	UP TO 30 DAYS
		775.684-038	GLASS POLISHER	2 1 2	30 TO 90 DAYS
		775.684-054	PATCH SANDER	1 1 1	UP TO 30 DAYS
		775.684-062	WATCH-CRYSTAL EDGE GRINDER	2 1 2	THREE TO SIX MONTHS
		779.684-030	INSPECTOR-REPAIRER, SANDSTONE	3 2 2	30 TO 90 DAYS
		849.684-010	BOAT BUFFER, PLASTIC	1 1 1	30 TO 90 DAYS
47.0402	GUNSMITHING	736.684-018	BARREL FINISHER	2 1 2	THREE TO SIX MONTHS
47.0404	MUSICAL INSTRUMENT REPAIR	730.684-066	SANDER-AND-BUFFER	2 1 2	30 TO 90 DAYS
47.0408	WATCH REPAIR	715.584-018	STONER, HAND	2 1 1	30 TO 90 DAYS
		715.684-038	BURNISHER, BALANCE WHEEL ARM	2 1 1	30 TO 90 DAYS
		715.684-106	HAND FILER, BALANCE WHEEL	2 1 1	30 TO 90 DAYS
		715.684-170	POLISHER, DIAL	2 1 1	30 TO 90 DAYS
		715.687-110	REAMER, CENTER HOLE	2 1 1	UP TO 30 DAYS
		770.684-010	JEWEL GRINDER 2	2 1 2	30 TO 90 DAYS
47.0603	AUTOMOTIVE BODY REPAIR	705.684-026	GRINDER 1	2 1 2	30 TO 90 DAYS
48.0304	SHOE AND BOOT REPAIR	788.687-038	DRESSER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 7758 HAND GRINDING AND POLISHING OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
48.0502	FOUNDRY WORK	519.684-018	MOLD DRESSER	2 1 1	THREE TO SIX MONTHS
		705.384-010	SCRAPER, HAND	3 1 2	ONE TO TWO YEARS
		809.684-026	GRINDER-CHIPPER 2	2 1 1	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	705.384-010	SCRAPER, HAND	3 1 2	ONE TO TWO YEARS
		705.484-010	FILER, HAND, TOOL	3 2 2	ONE TO TWO YEARS
		705.684-026	GRINDER 1	2 1 2	30 TO 90 DAYS
		705.684-030	GRINDER-CHIPPER 1	3 2 2	THREE TO SIX MONTHS
		705.684-054	PIPE BUFFER	2 1 1	UP TO 30 DAYS
		705.684-062	POLISHER AND BUFFER 2	2 1 2	UP TO 30 DAYS
		706.684-098	VALVE GRINDER	3 2 2	SIX TO 12 MONTHS
48.0504	METAL FABRICATION	705.684-046	NEEDLE POLISHER	2 1 1	30 TO 90 DAYS
		705.687-018	METAL SANDER AND FINISHER	2 1 1	30 TO 90 DAYS
48.0507	TOOL AND DIE MAKING	705.484-010	FILER, HAND, TOOL	3 2 2	ONE TO TWO YEARS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.684-034	FILER	3 1 2	30 TO 90 DAYS
		700.687-058	POLISHER	2 1 2	30 TO 90 DAYS
		735.684-014	STONER	2 1 2	THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	761.687-010	SANDER, HAND	1 1 1	UP TO 30 DAYS
49.0305	MARINE MAINTENANCE	809.684-022	FINISHER, FIBERGLASS BOAT PARTS	2 1 1	30 TO 90 DAYS

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U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
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OCCUPATION: 7759

HAND WORKING OCCUPATIONS, MISCELLANEOUS

People in these jobs work with their hands, handtools, or hand-held power tools to help make or process products or materials. They work in a wide variety of jobs and settings, and perform a variety of tasks. For example, they may remove stains from clothing at a laundry, dye shoes for customers at a shoe shop, fill ladles with molten metal at a foundry, or retread tires at a tire shop.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	369.684-018	UMBRELLA REPAIRER	2 1 2	THREE TO SIX MONTHS
		511.687-022	SKIMMER, REVERBERATORY	2 1 1	30 TO 90 DAYS
		520.687-030	FILLER MIXER	2 1 1	UP TO 30 DAYS
		520.687-034	FOOD MIXER	2 2 2	UP TO 30 DAYS
		520.687-062	SPICE MIXER	2 2 2	UP TO 30 DAYS
		521.687-070	HONEYCOMB DECAPPER	2 1 1	30 TO 90 DAYS
		522.684-010	PICKLER	2 2 2	30 TO 90 DAYS
		529.686-014	CANNERY WORKER	2 2 2	UP TO 30 DAYS
		543.600-010	FURNACE WORKER	2 2 2	UP TO 30 DAYS
		550.584-010	FLUX MIXER	3 1 1	THREE TO SIX MONTHS
		550.684-010	COAGULATING-BATH MIXER	3 2 2	THREE TO SIX MONTHS
		550.684-014	DYE WEIGHER	2 1 2	30 TO 90 DAYS
		550.684-018	PAINT MIXER, HAND	2 1 1	30 TO 90 DAYS
		550.684-022	PRIMING-POWDER-PREMIX BLENDER	2 1 2	30 TO 90 DAYS
		551.687-014	BRINE MAKER	2 1 1	30 TO 90 DAYS
		557.684-014	JET WIPER	2 1 1	UP TO 30 DAYS
		559.687-034	EGG PROCESSOR	2 1 1	UP TO 30 DAYS
		569.687-026	WOOD HACKER	2 1 1	30 TO 90 DAYS
		570.484-010	MIXER, DIAMOND POWDER	2 2 2	THREE TO SIX MONTHS
		580.687-014	HIDE STRETCHER, HAND	1 1 1	SHORT DEMONSTRATION
		589.687-046	TUBE COVERER	1 1 1	UP TO 30 DAYS
		590.464-010	PROCESSOR, SOLID PROPELLANT	3 3 3	THREE TO SIX MONTHS
		599.687-026	SIPHON OPERATOR	2 1 1	UP TO 30 DAYS
		683.684-014	DRAWER-IN, HAND	3 1 2	THREE TO SIX MONTHS
		687.464-010	RUG-FRAME MOUNTER	2 1 2	30 TO 90 DAYS
		687.684-014	TUFTER	2 1 1	THREE TO SIX MONTHS
		689.587-010	NUMBERER AND WIRER	2 1 1	UP TO 30 DAYS
		689.684-014	DRAWER-IN, STITCH-BONDING MACHINE	2 1 1	UP TO 30 DAYS
		691.667-010	PNEUMATIC JACKETER	1 1 1	UP TO 30 DAYS
		700.687-018	BRIMER	1 1 1	UP TO 30 DAYS
		709.684-042	HAND STAMPER	2 1 2	30 TO 90 DAYS
		712.684-038	REFINER	3 2 2	THREE TO SIX MONTHS
		712.687-014	COILER	2 1 1	UP TO 30 DAYS
		713.684-018	BENCH WORKER	2 1 1	30 TO 90 DAYS
		713.684-026	EYEGLASS-FRAME TRUFR	2 1 2	30 TO 90 DAYS

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OCCUPATION: 7759 MISCELLANEOUS HAND WORKING OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		715.684-010	BLOCKER, HAND	3	1 1	30	TO 90 DAYS
		727.687-058	FORMING-PROCESS-LINE WORKER	2	1 1	UP	TO 30 DAYS
		734.684-026	WIRE-FRAME DIPPER	2	1 1	UP	TO 30 DAYS
		737.687-090	MIXER	2	2 2	UP	TO 30 DAYS
		739.684-022	BRUSH MATERIAL PREPARER	2	1 1	SIX	TO 12 MONTHS
		739.684-054	DEICER FINISHER	2	2 2	THREE	TO SIX MONTHS
		739.684-062	FINISHER, BRUSH	2	1 2	30	TO 90 DAYS
		739.684-070	FORM COVERER	2	1 1	30	TO 90 DAYS
		739.684-082	FURNITURE ASSEMBLER-AND-INSTALLER	3	2 1	THREE	TO SIX MONTHS
		739.684-102	LAST MARKER	2	1 1	UP	TO 30 DAYS
		739.684-118	MANNEQUIN MONTER	3	2 2	SIX	TO 12 MONTHS
		739.684-122	MANNEQUIN SANDER AND FINISHER	3	1 1	30	TO 90 DAYS
		739.684-142	PAINT-ROLLER COVERMAKER	2	1 1	UP	TO 30 DAYS
		739.684-178	WOVEN WOOD SHADE ASSEMBLER	2	2 2	30	TO 90 DAYS
		739.687-070	DIGGER	2	1 2	30	TO 90 DAYS
		739.687-162	PULL-OUT OPERATOR	2	1 1	30	TO 90 DAYS
		749.687-018	MASKER	2	1 1	30	TO 90 DAYS
		750.684-022	TIRE BUILDER	2	1 1	30	TO 90 DAYS
		750.684-026	TIRE GROOVER	2	1 2	30	TO 90 DAYS
		750.684-038	TIRE VULCANIZER	2	1 1	30	TO 90 DAYS
		750.684-046	TUBE BALANCER	2	1 1	30	TO 90 DAYS
		752.684-034	PADDED-PRODUCTS FINISHER	2	1 2	30	TO 90 DAYS
		754.684-026	DRILLER, HAND	2	1 1	UP	TO 30 DAYS
		759.684-014	BASE-PLY HAND	2	1 1	30	TO 90 DAYS
		759.684-034	FOLDER-TIER	2	1 1	UP	TO 30 DAYS
		759.684-046	PATCHER, BOWLING BALL	2	1 1	30	TO 90 DAYS
		759.684-058	SPLICER	2	1 2	UP	TO 30 DAYS
		769.684-014	BASKET PATCHER	2	1 1	UP	TO 30 DAYS
		770.687-034	ROCK BREAKER	2	1 1	UP	TO 30 DAYS
		774.684-010	BISQUE CLEANER	2	1 1	THREE	TO SIX MONTHS
		774.684-018	FINISHER	2	1 1	THREE	TO SIX MONTHS
		775.684-050	MARK-UP DESIGNER	3	2 3	30	TO 90 DAYS
		775.687-010	FINISHER	2	1 1	UP	TO 30 DAYS
		775.687-014	GLASS DRILLER	2	1 2	UP	TO 30 DAYS
		779.684-018	FETTLER	2	1 1	30	TO 90 DAYS
		779.684-034	LEVEL-VIAL SEALER	2	1 1	UP	TO 30 DAYS
		779.687-010	BREAKER	2	1 1	UP	TO 30 DAYS
		779.687-034	STOCK SHEETS CLEANER-INSPECTOR	3	2 2	THREE	TO SIX MONTHS
		782.684-026	FISH-NET STRINGER	2	1 1	30	TO 90 DAYS
		789.387-014	SAMPLE SELECTOR	2	1 1	THREE	TO SIX MONTHS
		789.684-034	PARACHUTE FOLDER	2	1 1	30	TO 90 DAYS
		789.684-046	RIGGER	2	1 1	UP	TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7759 MISCELLANEOUS HAND WORKING OCCUPATIONS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
	789.687-098 MIXER	1 1 1 UP TO 30 DAYS
	790.684-018 PATCH WORKER	2 1 1 30 TO 90 DAYS
	795.684-014 EDGE STRIPPER	2 1 2 THREE TO SIX MONTHS
	795.684-018 GLOBE MOUNTER	2 1 1 30 TO 90 DAYS
	843.684-010 STEEL-PLATE CALKER	2 1 1 THREE TO SIX MONTHS
	899.684-038 STRIPPER AND TAPER	2 1 1 30 TO 90 DAYS
	912.684-010 PARACHUTE RIGGER	3 2 2 SIX TO 12 MONTHS
12.0101 DRYCLEANING AND LAUNDERING SERVICES	361.684-018 SPOTTER	3 1 1 30 TO 90 DAYS
	362.684-010 DRY CLEANER, HAND	2 1 1 30 TO 90 DAYS
	362.684-018 FUR CLEANER, HAND	3 1 2 SIX TO 12 MONTHS
	362.684-022 FURNITURE CLEANER	2 1 2 30 TO 90 DAYS
	363.684-018 PRESSER, HAND	2 1 1 UP TO 30 DAYS
	364.684-018 SPRAYER, LEATHER	2 1 2 THREE TO SIX MONTHS
	369.384-010 HATTER	3 1 2 ONE TO TWO YEARS
	369.384-014 RUG CLEANER, HAND	3 1 2 SIX TO 12 MONTHS
	369.587-010 VAULT CUSTODIAN	2 1 2 30 TO 90 DAYS
	369.684-010 FUR GLAZER	2 1 2 UP TO 30 DAYS
	582.684-014 SPOT CLEANER	2 1 2 30 TO 90 DAYS
20.0302 CLOTHING MAINTENANCE AIDE	361.684-018 SPOTTER	3 1 1 30 TO 90 DAYS
	362.684-010 DRY CLEANER, HAND	2 1 1 30 TO 90 DAYS
	362.684-018 FUR CLEANER, HAND	3 1 2 SIX TO 12 MONTHS
	363.684-018 PRESSER, HAND	2 1 1 UP TO 30 DAYS
	369.384-010 HATTER	3 1 2 ONE TO TWO YEARS
	582.684-014 SPOT CLEANER	2 1 2 30 TO 90 DAYS
20.0303 COMMERCIAL GARMENT AND APPAREL CONSTRUCT	589.687-014 CLOTH FOLDER, HAND	2 1 2 UP TO 30 DAYS
	781.287-010 CLOTHING-PATTERN PREPARER	4 4 3 ONE TO TWO YEARS
	781.384-014 MARKER 1	3 2 2 THREE TO SIX MONTHS
	781.687-042 MARKER	2 1 1 UP TO 30 DAYS
	781.687-046 MARKING STITCHER	2 1 1 UP TO 30 DAYS
	782.684-014 CROCHETER, HAND	3 1 2 SIX TO 12 MONTHS
	782.684-018 EMBROIDERER, HAND	3 1 2 SIX TO 12 MONTHS
	784.684-014 BRIM IRONER, HAND	2 1 1 UP TO 30 DAYS
	784.684-062 SLICKER	2 1 1 30 TO 90 DAYS
	784.687-018 CROWN POUNCER, HAND	2 1 1 30 TO 90 DAYS
	784.687-062 SINGER	2 1 1 UP TO 30 DAYS
	784.687-074 STRAW-HAT BRUSHER	2 1 1 UP TO 30 DAYS
20.0304 CUSTOM APPAREL/GARMENT SEAMSTRESS	781.287-010 CLOTHING-PATTERN PREPARER	4 4 3 ONE TO TWO YEARS
	782.684-014 CROCHETER, HAND	3 1 2 SIX TO 12 MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		782.684-018	EMBROIDERER, HAND	3	1 2	SIX TO 12 MONTHS
20.0402	BAKING	526.684-010	DOUGHNUT MAKER	3	1 1	SIX TO 12 MONTHS
20.0406	FOOD SERVICE	529.484-010	STEAK SAUCE MAKER	3	2 3	30 TO 90 DAYS
		529.684-010	FROZEN PIE MAKER	2	1 1	UP TO 30 DAYS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	362.684-022	FURNITURE CLEANER	2	1 2	30 TO 90 DAYS
20.0504	FLORAL DESIGN	739.684-182	WREATH AND GARLAND MAKER	2	1 2	UP TO 30 DAYS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	670.587-010	STONE LAYOUT MARKER	3	2 1	30 TO 90 DAYS
		679.664-010	BED SETTER	2	1 1	30 TO 90 DAYS
46.0503	PLUMBING	862.684-010	JUNCTION MAKER	2	1 2	SIX TO 12 MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.584-014	FINISHER	2	1 2	THREE TO SIX MONTHS
		732.684-070	FISHING-ROD MARKER	2	1 2	30 TO 90 DAYS
47.0408	WATCH REPAIR	715.584-010	DIAL REFINISHER	2	1 2	SIX TO 12 MONTHS
		715.684-010	ADJUSTER, ALARM MECHANISM	2	1 2	UP TO 30 DAYS
		715.684-026	BENCH HAND	1	1 1	UP TO 30 DAYS
		715.684-034	BLOCKER	2	1 1	THREE TO SIX MONTHS
		715.684-146	OILER	2	1 1	UP TO 30 DAYS
48.0202	BOOKBINDING	795.684-010	CASER	2	2 1	THREE TO SIX MONTHS
		795.684-022	TIPPER	2	2 1	30 TO 90 DAYS
48.0203	COMMERCIAL ART	979.684-018	LEGEND MAKER	2	1 2	30 TO 90 DAYS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.684-022	PRINT WASHER	2	1 1	30 TO 90 DAYS
48.0208	PRINTING PRESS OPERATIONS	652.687-030	PATTERN HAND	2	1 1	30 TO 90 DAYS
48.0303	UPHOLSTERING	780.684-070	MATTRESS FINISHER	3	2 2	30 TO 90 DAYS
		780.684-110	TESTER, CONVERTIBLE SOFA BEDSPRING	3	1 2	THREE TO SIX MONTHS
48.0304	SHOE AND BOOT REPAIR	*364.684-014	SHOE DYER	2	2 1	30 TO 90 DAYS
		788.584-014	MARKER, HAND	2	1 1	UP TO 30 DAYS
		788.684-050	FLAMER	2	1 1	UP TO 30 DAYS
		788.684-070	INTERLACER	2	1 2	30 TO 90 DAYS
		788.684-098	SAMPLE SHOE INSPECTOR AND REWORKER	3	1 2	SIX TO 12 MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		788.684-102	SCREW REMOVER	2	1	1	UP TO 30 DAYS
		788.684-118	TREE DRILLER	2	1	1	30 TO 90 DAYS
		788.684-126	WOOD-HEEL FINISHER	2	1	1	30 TO 90 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	520.687-054	SEASONING MIXER	2	1	2	UP TO 30 DAYS
		525.687-010	ANIMAL EVISCERATOR	2	2	1	30 TO 90 DAYS
		525.687-026	DRY CURER	2	1	1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	502.664-010	BLAST-FURNACE KEEPER	3	2	2	ONE TO TWO YEARS
		502.664-014	STEEL POURER	3	2	2	ONE TO TWO YEARS
		502.684-018	MOLD SETTER	3	3	3	30 TO 90 DAYS
		514.664-010	CUPOLA TAPPER	2	2	2	UP TO 30 DAYS
		514.664-014	TAPPER	2	1	1	UP TO 30 DAYS
		519.687-018	FLUX-TUBE ATTENDANT	3	1	2	30 TO 90 DAYS
		849.484-010	BOILER RELINER, PLASTIC BLOCK	2	2	1	THREE TO SIX MONTHS
48.0505	METAL PATTERNMAKING	801.684-014	PATTERN GATER	2	1	1	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	570.683-010	DRY-PAN CHARGER	3	2	2	SIX TO 12 MONTHS
		573.684-014	SETTER	2	2	1	THREE TO SIX MONTHS
		712.684-018	FLANGER	2	1	1	30 TO 90 DAYS
		712.684-026	GLAZIER	2	1	1	UP TO 30 DAYS
		779.684-042	PIPE FINISHER	2	1	1	30 TO 90 DAYS
48.0702	FURNITURE MAKING	763.684-030	DRAWER LINER	2	1	1	UP TO 30 DAYS
		763.684-054	LEATHER TOOLER	3	2	2	SIX TO 12 MONTHS
		763.684-074	TABLE-TOP TILE SETTER	2	2	2	THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	761.684-022	PATTERN MARKER 2	2	2	2	UP TO 30 DAYS
49.0306	MARINE MAINTENANCE	843.384-010	WOOD CALKER	2	1	1	30 TO 90 DAYS

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OCCUPATION: 7800

PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS

These workers inspect and test products to insure that they meet specifications and quality control standards. They may test chemicals and drugs, ores, or coffee, for example. They keep records of weight, quality, and test results of products. They may grade and sort such products as logs, jewelry, and laundry. Some workers are expeditors who keep other workers supplied with materials, relay instructions, and keep production records, and inspect work areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 7820

PRODUCTION INSPECTORS, CHECKERS, AND EXAMINERS

People in these jobs check products or objects to be sure they are made correctly, or are in good condition. Some sort, group, or classify objects. These workers are found in a variety of settings, including laundries, factories, and most packing plants. Depending upon the job, they may check products while they are being assembled or before they are shipped out for sale.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	194.387-010	QUALITY-CONTROL INSPECTOR	3	2	2	THREE TO SIX MONTHS
		205.367-058	TRAFFIC CHECKER	2	2	2	UP TO 30 DAYS
		221.687-014	TICKET PULLER	2	1	1	UP TO 30 DAYS
		500.287-010	INSPECTOR, PLATING	3	3	3	30 TO 90 DAYS
		521.687-018	BINDER SELECTOR	2	1	1	UP TO 30 DAYS
		521.687-022	BONE PICKER	1	1	1	SHORT DEMONSTRATION
		522.667-010	LIQUOR INSPECTOR	2	1	1	UP TO 30 DAYS
		529.367-010	CIGARETTE-AND-FILTER CHIEF INSPECTO	3	2	2	SIX TO 12 MONTHS
		529.367-014	HOGSHEAD INSPECTOR	3	2	2	THREE TO SIX MONTHS
		529.367-030	YIELD-LOSS INSPECTOR	4	3	3	SIX TO 12 MONTHS
		529.387-026	INSPECTOR, GRAIN MILL PRODUCTS	3	2	2	30 TO 90 DAYS
		529.467-010	TIP-LENGTH CHECKER	3	3	2	30 TO 90 DAYS
		529.567-010	CIGARETTE INSPECTOR	2	1	2	30 TO 90 DAYS
		529.567-014	MARKER, COMPANY	2	1	1	30 TO 90 DAYS
		529.666-010	CATCHER, FILTER TIP	2	2	2	UP TO 30 DAYS
		529.666-014	CIGARETTE-MAKING-MACHINE CATCHER	2	1	2	UP TO 30 DAYS
		529.667-010	INSPECTOR, FILTER TIP	2	2	2	30 TO 90 DAYS
		529.685-026	BOTTLED-BEVERAGE INSPECTOR	2	1	2	30 TO 90 DAYS
		529.685-274	X-RAY INSPECTOR	2	1	1	UP TO 30 DAYS
		529.687-042	CIGAR INSPECTOR	1	1	1	UP TO 30 DAYS
		529.687-058	DEFLECTOR OPERATOR	2	1	1	UP TO 30 DAYS
		529.687-074	EGG CANDLER	2	1	1	UP TO 30 DAYS
		529.687-090	FRESH-WORK INSPECTOR	2	2	2	30 TO 90 DAYS
		529.687-114	INSPECTOR	2	1	2	UP TO 30 DAYS
		529.687-118	INSPECTOR, CANNED FOOD RECONDITIONI	2	1	2	THREE TO SIX MONTHS
		529.687-126	KOSHER INSPECTOR	3	1	1	UP TO 30 DAYS
		529.687-146	LIGHTOUT EXAMINER	2	1	2	30 TO 90 DAYS
		529.687-174	SALVAGE INSPECTOR	2	1	1	30 TO 90 DAYS
		530.687-010	RAC INSPECTOR	2	2	1	UP TO 30 DAYS
		539.367-010	FINAL INSPECTOR, PAPER	3	3	3	SIX TO 12 MONTHS
		539.367-014	WATER-QUALITY TESTER	3	3	3	SIX TO 12 MONTHS
		539.487-010	INSPECTOR, FIBROUS WALLBOARD	3	3	2	THREE TO SIX MONTHS
		539.667-010	CONTROL INSPECTOR	3	2	2	THREE TO SIX MONTHS
		542.567-010	COKE INSPECTOR	3	2	2	THREE TO SIX MONTHS
		549.367-010	INSPECTOR	3	2	2	SIX TO 12 MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		558.584-010	CELL TESTER	3	2 2	THREE TO SIX MONTHS
		559.165-010	CHECKER	3	2 2	SIX TO 12 MONTHS
		559.364-010	FURNACE-STOCK INSPECTOR	3	3 2	THREE TO SIX MONTHS
		559.387-010	INSPECTOR 4	3	2 2	SIX TO 12 MONTHS
		559.467-010	TEMPERATURE-CONTROL INSPECTOR	3	2 2	THREE TO SIX MONTHS
		559.584-014	VARNISH INSPECTOR	2	2 1	30 TO 90 DAYS
		559.587-010	AMPOULE EXAMINER	2	1 2	30 TO 90 DAYS
		559.687-058	SOAP INSPECTOR	2	1 1	UP TO 30 DAYS
		561.587-010	POLE INSPECTOR	2	2 2	30 TO 90 DAYS
		569.367-010	TREATING INSPECTOR	3	3 3	30 TO 90 DAYS
		575.687-022	MAT INSPECTOR	3	2 2	30 TO 90 DAYS
		579.687-014	DECORATING INSPECTOR	2	2 1	UP TO 30 DAYS
		579.687-026	MICA PATCHER	2	1 1	UP TO 30 DAYS
		582.685-026	CLOTH SHADER	2	1 2	THREE TO SIX MONTHS
		582.687-022	SHADE MATCHER	2	1 2	30 TO 90 DAYS
		585.685-090	RUG INSPECTOR	2	1 1	THREE TO SIX MONTHS
		585.687-010	BEAMING INSPECTOR	2	1 2	30 TO 90 DAYS
		585.687-022	PATCHER	2	1 2	UP TO 30 DAYS
		589.387-010	INSPECTOR AND SORTER	3	2 3	THREE TO SIX MONTHS
		589.487-010	WEIGHT-YARDAGE CHECKER	3	3 3	30 TO 90 DAYS
		590.367-010	INSPECTOR	3	2 2	SIX TO 12 MONTHS
		612.687-010	HEAT READER	2	2 2	30 TO 90 DAYS
		613.667-014	MILL HAND, PLATE MILL	2	1 1	THREE TO SIX MONTHS
		616.484-010	TRUER	2	2 2	THREE TO SIX MONTHS
		622.684-022	TANK-CAR INSPECTOR	2	1 2	THREE TO SIX MONTHS
		640.687-010	ROLL EXAMINER	2	1 2	UP TO 30 DAYS
		641.687-014	BOX-SEALING INSPECTOR	2	1 1	UP TO 30 DAYS
		649.367-010	INSPECTOR, PAPER PRODUCTS	3	2 2	SIX TO 12 MONTHS
		649.487-010	INSPECTOR	3	2 2	30 TO 90 DAYS
		649.587-018	PAPER-PATTERN INSPECTOR	2	1 1	UP TO 30 DAYS
		651.687-010	LITHOGRAPHED-PLATE INSPECTOR	1	1 1	UP TO 30 DAYS
		652.567-010	CLOTH-PRINTING INSPECTOR	3	1 1	THREE TO SIX MONTHS
		663.687-010	WOOD INSPECTOR	2	2 2	UP TO 30 DAYS
		667.687-014	LOG INSPECTOR	2	1 1	30 TO 90 DAYS
		669.687-014	DOWEL INSPECTOR	1	1 1	UP TO 30 DAYS
		669.687-026	TIE INSPECTOR	2	1 2	UP TO 30 DAYS
		679.687-010	ASBESTOS-SHINGLE INSPECTOR	2	1 2	30 TO 90 DAYS
		681.687-010	END FINDER, FORMING DEPARTMENT	2	1 2	UP TO 30 DAYS
		681.687-018	THREAD INSPECTOR	3	1 1	30 TO 90 DAYS
		681.687-030	YARN EXAMINER	3	1 2	30 TO 90 DAYS
		683.384-010	PATTERN-LFASE INSPECTOR	3	1 1	THREE TO SIX MONTHS
		683.487-010	BELTING-AND-WEBBING INSPECTOR	2	1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		683.684-018	HARNESS PULLER	3	1 2	THREE	TO SIX MONTHS
		683.684-034	WEAVING INSPECTOR	2	1 2	30 TO 90	DAYS
		684.684-010	STOCKING INSPECTOR	3	1 2	30 TO 90	DAYS
		684.687-014	REINSPECTOR	3	2 1	THREE TO SIX	MONTHS
		684.687-018	SIZER	3	2 1	30 TO 90	DAYS
		685.687-010	CLOTH INSPECTOR	2	1 2	THREE TO SIX	MONTHS
		685.687-022	PATROLLER	2	1 2	UP TO 30	DAYS
		689.564-010	CARPET INSPECTOR, FINISHED	3	1 2	THREE TO SIX	MONTHS
		689.667-010	RUG INSPECTOR 1	2	1 2	30 TO 90	DAYS
		689.684-010	BURLER	3	1 2	30 TO 90	DAYS
		689.685-038	CLOTH EXAMINER, MACHINE	3	2 3	THREE TO SIX	MONTHS
		689.685-078	HOOKER INSPECTOR	3	1 2	30 TO 90	DAYS
		689.685-098	PICK-UP OPERATOR	2	1 2	UP TO 30	DAYS
		689.687-022	CLOTH EXAMINER, HAND	2	1 1	UP TO 30	DAYS
		689.687-082	YARN EXAMINER, SKEINS	2	1 1	30 TO 90	DAYS
		691.367-010	INSPECTOR, WIRE	3	3 3	SIX TO 12	MONTHS
		691.387-010	INSPECTOR, INSULATION	3	3 3	SIX TO 12	MONTHS
		699.384-010	COMPARATOR OPERATOR	3	3 3	THREE TO SIX	MONTHS
		706.687-034	ROLLER-BEARING INSPECTOR	2	1 2	30 TO 90	DAYS
		709.364-010	INSPECTOR, MAGNETIC AND CYCLO	3	3 3	SIX TO 12	MONTHS
		709.587-010	INSPECTOR	2	2 2	30 TO 90	DAYS
		709.687-022	INSPECTOR	3	2 2	THREE TO SIX	MONTHS
		709.687-030	PROOF-COIN COLLECTOR	3	2 2	THREE TO SIX	MONTHS
		710.687-018	CALIBRATION CHECKER 2	3	2 2	THREE TO SIX	MONTHS
		712.487-010	INSPECTOR, SURGICAL GARMENT	3	3 2	30 TO 90	DAYS
		712.687-022	GAS-MASK INSPECTOR	3	2 2	THREE TO SIX	MONTHS
		712.687-026	INSPECTOR, SURGICAL INSTRUMENTS	2	1 1	UP TO 30	DAYS
		713.384-014	INSPECTOR, EYEGLASS	3	3 2	SIX TO 12	MONTHS
		713.667-010	INSPECTOR, CLIP-ON SUNGLASSES	2	1 2	30 TO 90	DAYS
		713.687-022	INSPECTOR, EYEGLASS FRAMES	2	1 2	30 TO 90	DAYS
		713.687-030	LENS MATCHER	2	1 2	UP TO 30	DAYS
		716.687-014	GLASS CHECKER	2	1 1	UP TO 30	DAYS
		716.687-018	INSPECTOR, MULTIFOCAL LENS	3	2 2	30 TO 90	DAYS
		716.687-022	LENS EXAMINER	2	1 2	THREE TO SIX	MONTHS
		716.687-030	LENS-BLOCK GAGER	2	1 2	UP TO 30	DAYS
		716.687-034	WET INSPECTOR, OPTICAL GLASS	2	2 2	30 TO 90	DAYS
		723.687-014	TESTER AND INSPECTOR, LAMPS	2	1 2	UP TO 30	DAYS
		727.687-054	FINAL INSPECTOR	2	2 2	UP TO 30	DAYS
		727.687-062	INSPECTOR 2	2	1 1	UP TO 30	DAYS
		727.687-066	INSPECTOR, CONTAINER FINISHING	2	2 2	UP TO 30	DAYS
		727.687-074	MOLDED-PARTS INSPECTOR	3	2 2	30 TO 90	DAYS
		731.687-022	INSPECTOR, TOYS	3	2 2	THREE TO SIX	MONTHS

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OCCUPATION: 7820 PRODUCTION INSPECTORS, CHECKERS AND EXAMINERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		733.687-042	INSPECTOR	2	1	2	30 TO 90 DAYS
		733.687-046	INSPECTOR, BALL POINTS	2	2	2	30 TO 90 DAYS
		733.687-050	INSPECTOR, FINAL ASSEMBLY	2	2	2	30 TO 90 DAYS
		733.687-054	INSPECTOR, RUBBER-STAMP DIE	3	1	1	THREE TO SIX MONTHS
		733.687-058	NIB INSPECTOR	3	2	2	30 TO 90 DAYS
		733.687-062	PENCIL INSPECTOR	2	1	1	UP TO 30 DAYS
		733.687-074	STENCIL INSPECTOR	2	1	1	UP TO 30 DAYS
		734.684-018	INSPECTOR-REPAIRER	3	2	2	THREE TO SIX MONTHS
		734.687-042	BUTTON RECLAIMER	1	1	1	UP TO 30 DAYS
		737.137-010	INSPECTOR, CHIEF	4	3	3	TWO TO FOUR YEARS
		737.364-010	PROCESS CHECKER	3	3	2	30 TO 90 DAYS
		737.367-010	INSPECTOR 3	4	3	3	ONE TO TWO YEARS
		737.387-014	INSPECTOR 1	3	2	2	SIX TO 12 MONTHS
		737.684-026	INSPECTOR, SALVAGE	2	2	1	UP TO 30 DAYS
		737.685-014	SHAKER-PLATE OPERATOR	2	1	2	UP TO 30 DAYS
		737.687-054	INSPECTOR 2	3	2	2	THREE TO SIX MONTHS
		737.687-058	INSPECTOR, BULLET SLUGS	2	1	2	30 TO 90 DAYS
		737.687-062	INSPECTOR, FIREWORKS	2	1	2	30 TO 90 DAYS
		737.687-066	INSPECTOR, SHELLS	2	2	1	UP TO 30 DAYS
		737.687-106	PRIMER INSPECTOR	2	1	2	30 TO 90 DAYS
		737.687-114	SALVAGER 1	3	1	2	THREE TO SIX MONTHS
		737.687-118	SALVAGER 2	3	2	2	30 TO 90 DAYS
		737.387-010	CASKET INSPECTOR	3	1	1	SIX TO 12 MONTHS
		739.484-010	CHRONOGRAPH OPERATOR	3	3	3	30 TO 90 DAYS
		739.587-010	INSPECTION CLERK	3	3	2	THREE TO SIX MONTHS
		739.667-010	SPOT PICKER, MOLDED GOODS	2	1	1	30 TO 90 DAYS
		739.687-038	BLOCK INSPECTOR	1	1	1	UP TO 30 DAYS
		739.687-082	EXAMINER	2	1	1	UP TO 30 DAYS
		739.687-102	GASKET INSPECTOR	2	1	1	UP TO 30 DAYS
		739.687-106	INSPECTOR	2	1	2	30 TO 90 DAYS
		739.687-110	INSPECTOR	2	1	1	30 TO 90 DAYS
		739.687-114	INSPECTOR, OIL FILTERS	2	2	2	UP TO 30 DAYS
		739.687-142	PATCH DRILLER	2	1	1	30 TO 90 DAYS
		739.687-146	PATCHER	2	1	1	30 TO 90 DAYS
		739.687-166	SELECTOR	3	1	2	30 TO 90 DAYS
		739.687-182	TABLE WORKER	1	1	1	UP TO 30 DAYS
		741.687-010	PAINT-SPRAY INSPECTOR	2	1	2	UP TO 30 DAYS
		750.367-010	QUALITY-CONTROL INSPECTOR	3	3	2	THREE TO SIX MONTHS
		750.387-010	TIRE CLASSIFIER	3	1	2	30 TO 90 DAYS
		750.684-018	GREEN-TIRE INSPECTOR	3	2	2	THREE TO SIX MONTHS
		750.684-030	TIRE INSPECTOR	3	2	2	THREE TO SIX MONTHS
		750.687-014	TIRE BALANCER	2	1	1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		750.687-018	TIRE INSPECTOR	3	2	2	THREE TO SIX MONTHS
		751.584-010	COLD-ROLL INSPECTOR	2	1	2	THREE TO SIX MONTHS
		751.684-010	CUTTER-INSPECTOR	2	1	2	UP TO 30 DAYS
		753.467-010	CLASSIFIER	3	2	2	30 TO 90 DAYS
		759.364-010	HOSE INSPECTOR AND PATCHER	3	2	2	THREE TO SIX MONTHS
		759.584-010	RUBBER-GOODS INSPECTOR-TESTER	3	2	3	THREE TO SIX MONTHS
		759.687-010	DEICER INSPECTOR, PNEUMATIC	3	2	2	THREE TO SIX MONTHS
		762.684-022	BASKET MENDER	2	1	1	30 TO 90 DAYS
		762.687-018	BOX REPAIRER 2	2	1	1	30 TO 90 DAYS
		764.387-010	HEAD INSPECTOR	3	2	3	THREE TO SIX MONTHS
		764.387-014	MATERIAL INSPECTOR	4	3	3	SIX TO 12 MONTHS
		764.687-022	BARREL INSPECTOR, TIGHT	2	1	2	THREE TO SIX MONTHS
		764.687-054	CULLER	2	1	2	30 TO 90 DAYS
		764.687-086	HOGSHEAD MAT INSPECTOR	2	1	2	30 TO 90 DAYS
		769.387-010	WOODWORK-SALVAGE INSPECTOR	3	2	2	THREE TO SIX MONTHS
		769.687-018	CANOE INSPECTOR, FINAL	2	1	1	THREE TO SIX MONTHS
		769.687-030	INSPECTOR, PICTURE FRAMES	2	1	2	30 TO 90 DAYS
		772.687-014	SPOTTER	2	1	2	UP TO 30 DAYS
		773.687-010	PASTING INSPECTOR	2	1	1	THREE TO SIX MONTHS
		774.364-010	INSPECTOR	3	2	2	SIX TO 12 MONTHS
		774.687-018	PRINT INSPECTOR	3	1	1	THREE TO SIX MONTHS
		776.487-010	GRINDING-WHEEL INSPECTOR	3	2	2	THREE TO SIX MONTHS
		776.667-010	INSPECTOR	3	2	3	THREE TO SIX MONTHS
		779.387-010	FINAL INSPECTOR	3	2	2	SIX TO 12 MONTHS
		779.387-014	INSPECTOR	3	2	2	ONE TO TWO YEARS
		779.687-022	INSPECTOR, GLASS OR MIRROR	3	2	2	THREE TO SIX MONTHS
		779.687-026	MICA INSPECTOR	3	2	2	THREE TO SIX MONTHS
		782.487-010	NETTING INSPECTOR	2	2	2	30 TO 90 DAYS
		783.687-018	HIDE INSPECTOR	3	2	2	THREE TO SIX MONTHS
		789.587-022	RUG INSPECTOR 2	3	2	2	THREE TO SIX MONTHS
		789.687-026	BUFFING-WHEEL INSPECTOR	2	1	1	UP TO 30 DAYS
		789.687-050	FINISHER	2	1	1	UP TO 30 DAYS
		789.687-086	HARNESS-AND-BAG INSPECTOR	2	1	2	UP TO 30 DAYS
		789.687-114	PARACHUTE INSPECTOR	2	1	1	UP TO 30 DAYS
		789.687-158	RUG-INSPECTOR HELPER	2	1	1	30 TO 90 DAYS
		790.687-018	LUMP INSPECTOR	2	1	1	UP TO 30 DAYS
		801.667-010	INSPECTOR, SHIPPING	3	1	1	THREE TO SIX MONTHS
		805.667-010	BOILERHOUSE INSPECTOR	3	1	1	ONE TO TWO YEARS
		806.264-014	INSPECTOR, AIRCRAFT LAUNCHING AND A	4	4	4	ONE TO TWO YEARS
		806.287-010	SALVAGE INSPECTOR	4	2	2	ONE TO TWO YEARS
		806.364-010	INSPECTOR, EXHAUST EMISSIONS	3	3	3	SIX TO 12 MONTHS
		806.384-010	INSPECTOR, PROCUREMENT	3	2	2	SIX TO 12 MONTHS

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OCCUPATION: 7820 PRODUCTION INSPECTORS, CHECKERS AND EXAMINERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		806.384-014	INSPECTOR, RETURNED MATERIALS	3 2 3	SIX TO 12 MONTHS
		806.387-010	INSPECTOR, SURFACE PROCESSING	3 2 2	SIX TO 12 MONTHS
		806.387-014	WHEEL INSPECTOR	3 2 2	FOUR TO TEN YEARS
		806.684-066	INSTALLER-INSPECTOR, FINAL	3 2 2	THREE TO SIX MONTHS
		821.364-010	UTILITIES SERVICE INVESTIGATOR	4 3 3	ONE TO TWO YEARS
		821.367-014	SAFETY INSPECTOR	4 3 3	FOUR TO TEN YEARS
		824.683-010	NIGHT-PATROL INSPECTOR	2 1 2	UP TO 30 DAYS
		859.281-010	GRAVEL INSPECTOR	4 3 3	SIX TO 12 MONTHS
		869.367-014	MEASURER	3 2 2	30 TO 90 DAYS
		920.387-010	INSPECTOR, PACKAGING MATERIALS	3 3 2	THREE TO SIX MONTHS
		920.667-010	CIGARETTE-PACKAGE EXAMINER	2 1 2	THREE TO SIX MONTHS
		920.667-014	SNUFF-CONTAINER INSPECTOR	2 1 2	30 TO 90 DAYS
		920.687-050	CAN INSPECTOR	2 1 2	30 TO 90 DAYS
		920.687-070	CARTON INSPECTOR	2 2 2	30 TO 90 DAYS
		929.367-010	PRESERVATION INSPECTOR, MARINE EQUI	4 2 2	ONE TO TWO YEARS
		952.567-010	TURBINE ATTENDANT	3 2 3	THREE TO SIX MONTHS
		953.367-014	GAS-METER CHECKER	3 2 2	SIX TO 12 MONTHS
		953.387-010	CYLINDER INSPECTOR-AND-TESTER	3 3 3	THREE TO SIX MONTHS
		979.687-026	TYPE-COPY EXAMINER	2 1 2	UP TO 30 DAYS
01.0204	AGRICULTURAL POWER MACHINERY	801.663-010	ASSEMBLY-INSPECTOR HELPER	2 1 1	30 TO 90 DAYS
01.0603	ORNAMENTAL HORTICULTURE	739.687-118	INSPECTOR, WREATH	2 1 1	30 TO 90 DAYS
10.0105	SOUND RECORDING TECHNOLOGY	*194.387-010	QUALITY-CONTROL INSPECTOR	3 2 2	THREE TO SIX MONTHS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	369.687-014	CHECKER	2 1 1	UP TO 30 DAYS
		369.687-022	INSPECTOR	2 1 2	30 TO 90 DAYS
		369.687-030	RUG INSPECTOR	3 1 2	THREE TO SIX MONTHS
15.0701	OCCUPATIONAL SAFETY AND HEALTH TECHNOLOG	821.367-014	SAFETY INSPECTOR	4 3 3	FOUR TO TEN YEARS
15.0702	QUALITY CONTROL TECHNOLOGY	706.131-018	CHIEF INSPECTOR	3 3 3	TWO TO FOUR YEARS
		733.364-010	QUALITY-CONTROL TECHNICIAN, INKED R	3 3 3	SIX TO 12 MONTHS
17.0103	DENTAL LABORATORY TECHNOLOGY	712.687-038	TOOTH INSPECTOR	2 1 1	UP TO 30 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	369.687-014	CHECKER	2 1 1	UP TO 30 DAYS
		369.687-022	INSPECTOR	2 1 2	30 TO 90 DAYS
		783.387-010	FUR-REPAIR INSPECTOR	3 2 2	FOUR TO TEN YEARS
		789.687-078	GARMENT-ALTERATION EXAMINER	3 1 1	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.684-026	DRAPER	3 2 3	THREE TO SIX MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		781.687-014	CLOTH EXAMINER, HAND	2	1	1	30 TO 90 DAYS
		781.687-034	GLOVE-PARTS INSPECTOR	3	1	2	THREE TO SIX MONTHS
		783.684-018	INSPECTOR-REPAIRER	3	2	2	30 TO 90 DAYS
		784.387-010	INSPECTOR	2	1	1	30 TO 90 DAYS
		789.587-010	BOXING INSPECTOR	2	1	2	30 TO 90 DAYS
		789.687-042	EXAMINER	2	1	1	30 TO 90 DAYS
		789.687-070	GARMENT INSPECTOR	2	1	2	30 TO 90 DAYS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	369.687-022	INSPECTOR	2	1	2	30 TO 90 DAYS
		783.387-010	FUR-REPAIR INSPECTOR	3	2	2	FOUR TO TEN YEARS
20.0305	CUSTOM TAILORING AND ALTERATION	783.387-010	FUR-REPAIR INSPECTOR	3	2	2	FOUR TO TEN YEARS
20.0306	FASHION/FABRIC COORDINATION	559.467-010	TEMPERATURE-CONTROL INSPECTOR	3	2	2	THREE TO SIX MONTHS
20.0406	FOOD SERVICE	521.687-094	PEELED-POTATO INSPECTOR	1	1	1	UP TO 30 DAYS
20.0502	CUSTOM DRAPERY AND WINDOW TREATMENT DESI	781.684-022	CUTTING INSPECTOR	3	1	1	30 TO 90 DAYS
		789.587-014	INSPECTOR, FABRIC	3	1	2	30 TO 90 DAYS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	789.687-038	COVER INSPECTOR	3	2	2	30 TO 90 DAYS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	670.384-010	STONE GRADER	3	2	2	ONE TO TWO YEARS
46.0302	ELECTRICIAN	824.281-014	ELECTRIC-DISTRIBUTION CHECKER.	4	3	3	FOUR TO TEN YEARS
46.0303	LINeworker	821.367-010	CONSTRUCTION CHECKER	4	4	3	ONE TO TWO YEARS
		821.367-014	SAFETY INSPECTOR	4	3	3	FOUR TO TEN YEARS
		822.267-010	LINE INSPECTOR	4	3	3	TWO TO FOUR YEARS
		869.387-010	POLE INSPECTOR	3	2	2	SIX TO 12 MONTHS
46.0402	CONCRETE PLACING AND FINISHING	579.664-014	INSPECTOR	3	2	3	THREE TO SIX MONTHS
46.0403	CONSTRUCTION INSPECTION	859.267-010	STREET-OPENINGS INSPECTOR	4	3	3	FOUR TO TEN YEARS
		869.287-010	BRIDGE INSPECTOR	4	4	3	TWO TO FOUR YEARS
		869.367-018	PIPE-LINE-CONSTRUCTION INSPECTOR	4	3	3	FOUR TO TEN YEARS
		869.687-038	INSPECTOR	3	2	3	ONE TO TWO YEARS
46.0502	PIPEFITTING AND STEAMFITTING	862.687-010	COOLING-PIPE INSPECTOR	3	1	2	SIX TO 12 MONTHS
46.0503	PLUMBING	862.687-010	COOLING-PIPE INSPECTOR	3	1	2	SIX TO 12 MONTHS
		953.367-010	GAS-LEAK INSPECTOR	3	2	2	SIX TO 12 MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
47.0102	BUSINESS MACHINE REPAIR	706.387-010	INSPECTOR, AUTOMATIC TYPEWRITER	3	2 2	THREE	TO SIX MONTHS
		706.687-022	INSPECTOR, ALINING	3	2 2	THREE	TO SIX MONTHS
		706.687-026	INSPECTOR, TYPE	2	1 2	30 TO 90	DAYS
47.0103	COMMUNICATION ELECTRONICS	726.684-022	ELECTRONICS INSPECTOR 2	3	2 2	30 TO 90	DAYS
47.0104	COMPUTER ELECTRONICS	726.684-022	ELECTRONICS INSPECTOR 2	3	2 2	30 TO 90	DAYS
47.0105	INDUSTRIAL ELECTRONICS	724.364-010	WINDING INSPECTOR AND TESTER	3	2 2	THREE	TO SIX MONTHS
		724.685-014	WELD INSPECTOR	2	1 1	UP TO 30	DAYS
		725.684-010	COILFD-COIL INSPECTOR	3	2 2	30 TO 90	DAYS
		725.687-010	BEAD INSPECTOR	2	2 2	30 TO 90	DAYS
		725.687-018	FOCUSER	2	1 2	30 TO 90	DAYS
		725.687-026	QUALITY-CONTROL INSPECTOR	3	2 2	30 TO 90	DAYS
		726.367-010	GREEN INSPECTOR	3	2 2	THREE	TO SIX MONTHS
		726.684-022	ELECTRONICS INSPECTOR 2	3	2 2	30 TO 90	DAYS
		729.384-022	WINDING INSPECTOR	3	2 3	THREE	TO SIX MONTHS
		729.387-010	DEICER INSPECTOR, ELECTRIC	3	2 2	THREE	TO SIX MONTHS
		729.387-018	FINISHING INSPECTOR	3	2 3	SIX TO 12	MONTHS
		729.387-022	INSPECTOR 1	3	2 2	THREE	TO SIX MONTHS
47.0106	MAJOR APPLIANCE REPAIR	729.387-022	INSPECTOR 1	3	2 2	THREE	TO SIX MONTHS
47.0107	MOTOR REPAIR	724.364-010	WINDING INSPECTOR AND TESTER	3	2 2	THREE	TO SIX MONTHS
		729.384-022	WINDING INSPECTOR	3	2 3	THREE	TO SIX MONTHS
47.0108	SMALL APPLIANCE REPAIR	729.387-022	INSPECTOR 1	3	2 2	THREE	TO SIX MONTHS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	930.267-010	OIL-PIPE INSPECTOR	4	3 4	ONE	TO TWO YEARS
		930.364-010	OIL-PIPE-INSPECTOR HELPER	3	2 1	SIX	TO 12 MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.367-010	ROVING INSPECTOR	3	2 2	SIX	TO 12 MONTHS
		710.384-014	INSPECTOR	4	3 3	TWO	TO FOUR YEARS
		710.384-022	METER INSPECTOR	3	3 3	THREE	TO SIX MONTHS
		710.684-022	FILLER	3	1 1	SIX	TO 12 MONTHS
		710.687-026	INSTRUMENT CHECKER	3	1 1	30 TO 90	DAYS
		710.687-030	SPEEDOMETER INSPECTOR	3	2 2	THREE	TO SIX MONTHS
47.0402	GUNSMITHING	612.384-010	INSPECTOR, COLD WORKING	3	3 3	THREE	TO SIX MONTHS
		736.384-010	PROOF INSPECTOR	3	2 2	30 TO 90	DAYS
		736.387-010	INSPECTOR, ASSEMBLY	3	2 2	THREE	TO SIX MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		736.687-014	INSPECTOR, BARREL	2	1 2	30 TO 90 DAYS
		736.687-018	INSPECTOR, LIVE AMMUNITION	1	1 1	UP TO 30 DAYS
47.0404	MUSICAL INSTRUMENT REPAIR	730.367-010	FINAL INSPECTOR	3	2 3	SIX TO 12 MONTHS
		730.684-034	FRETTED-INSTRUMENT INSPECTOR	3	2 2	THREE TO SIX MONTHS
		730.684-038	INSPECTOR, WOODWIND INSTRUMENTS	3	2 2	THREE TO SIX MONTHS
		730.684-058	PREASSEMBLER AND INSPECTOR	2	1 1	THREE TO SIX MONTHS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.364-010	INSPECTOR	3	2 3	30 TO 90 DAYS
		732.384-014	INSPECTOR AND ADJUSTER, GOLF CLUB H	3	3 3	THREE TO SIX MONTHS
		732.567-010	INSPECTOR, GOLF BALL	3	2 2	30 TO 90 DAYS
		732.684-030	BASEBALL INSPECTOR AND REPAIRER	3	2 2	30 TO 90 DAYS
		806.687-030	INSPECTOR, BICYCLE	2	1 1	UP TO 30 DAYS
47.0408	WATCH REPAIR	715.381-058	HAIRSPRING TRUER	3	2 2	ONE TO TWO YEARS
		715.384-014	INSPECTOR, MECHANISM	3	2 2	THREE TO SIX MONTHS
		715.384-018	INSPECTOR, POISING	3	2 2	THREE TO SIX MONTHS
		715.384-022	INSPECTOR, WATCH PARTS	3	2 3	ONE TO TWO YEARS
		715.684-094	FINAL INSPECTOR, MOVEMENT ASSEMBLY	3	2 2	THREE TO SIX MONTHS
		715.684-102	HAIRSPRING ADJUSTER	3	1 2	THREE TO SIX MONTHS
		715.684-114	INSPECTOR, BARREL ASSEMBLY	3	2 2	ONE TO TWO YEARS
		715.684-118	INSPECTOR, HAIRSPRING TRUING	3	2 2	THREE TO SIX MONTHS
		715.684-122	INSPECTOR, HAIRSPRING 2	2	1 2	30 TO 90 DAYS
		715.684-126	INSPECTOR, WHEEL AND PINION	3	2 2	THREE TO SIX MONTHS
		715.684-194	TRUER, PINION AND WHEEL	2	1 1	30 TO 90 DAYS
		715.687-050	INSPECTOR, BALANCE TRUING	3	2 2	30 TO 90 DAYS
		715.687-054	INSPECTOR, BALANCE WHEEL MOTION	2	2 2	30 TO 90 DAYS
		715.687-058	INSPECTOR, BALANCE-BRIDGE	2	1 2	30 TO 90 DAYS
		715.687-062	INSPECTOR, CASING	2	2 2	30 TO 90 DAYS
		715.687-066	INSPECTOR, DIALS	3	2 3	THREE TO SIX MONTHS
		715.687-070	INSPECTOR, SOLDERING	2	1 2	30 TO 90 DAYS
		715.687-074	INSPECTOR, TIMERS	2	1 2	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	952.367-010	LOAD CHECKER	3	3 3	ONE TO TWO YEARS
		952.567-010	TURBINE ATTENDANT	3	2 3	THREE TO SIX MONTHS
		953.367-018	HOUSE-PIPING INSPECTOR	3	2 3	SIX TO 12 MONTHS
		956.267-010	INSPECTOR, CHIEF	4	4 3	TWO TO FOUR YEARS
		956.387-010	BUILDING-EQUIPMENT INSPECTOR	3	3 2	ONE TO TWO YEARS
47.0504	PUMPING PLANTS	549.387-010	CARGO INSPECTOR	3	3 2	SIX TO 12 MONTHS
		869.564-010	LINE WALKER	3	2 3	THREE TO SIX MONTHS
		953.367-010	GAS-LEAK INSPECTOR	3	2 2	SIX TO 12 MONTHS

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OCCUPATION: 7820 PRODUCTION INSPECTORS, CHECKERS AND EXAMINERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
47.0603	AUTOMOTIVE BODY REPAIR	806.687-014	CHASSIS INSPECTOR	2	2	2	30 TO 90 DAYS
		806.687-018	FINAL INSPECTOR	3	2	3	THREE TO SIX MONTHS
47.0604	AUTOMOTIVE MECHANICS	379.364-010	AUTOMOBILE TESTER	3	2	2	THREE TO SIX MONTHS
		706.687-014	CLUTCH INSPECTOR	2	1	2	30 TO 90 DAYS
48.0202	BOOKBINDING	653.687-010	COLLATOR	2	2	1	UP TO 30 DAYS
		653.687-014	INSPECTOR, PUBLICATIONS	2	1	2	UP TO 30 DAYS
48.0205	TYPESSETTING, MAKE-UP, AND COMPOSITION	654.687-010	MATRIX INSPECTOR	2	1	2	30 TO 90 DAYS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	979.687-018	PLATE CAGER	2	1	2	30 TO 90 DAYS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.267-010	QUALITY-CONTROL TECHNICIAN	4	2	3	ONE TO TWO YEARS
		976.362-010	FILM INSPECTOR	4	2	2	SIX TO 12 MONTHS
		976.687-014	PHOTO CHECKER AND ASSEMBLER	3	1	1	THREE TO SIX MONTHS
		976.687-022	PRINT INSPECTOR	3	1	2	SIX TO 12 MONTHS
48.0208	PRINTING PRESS OPERATIONS	652.567-010	CLOTH-PRINTING INSPECTOR	3	1	1	THREE TO SIX MONTHS
		652.687-034	PRINT-LINE INSPECTOR	2	1	1	UP TO 30 DAYS
		652.687-042	WALLPAPER INSPECTOR	2	1	1	THREE TO SIX MONTHS
		652.687-046	WALLPAPER INSPECTOR AND SHIPPER	2	1	2	30 TO 90 DAYS
		659.667-010	INKER	3	2	2	THREE TO SIX MONTHS
		979.687-010	EXAMINER	2	1	2	THREE TO SIX MONTHS
48.0209	SILK SCREEN MAKING AND PRINTING	652.686-042	TOWEL INSPECTOR	2	1	2	30 TO 90 DAYS
		659.687-014	RACKER, SILK-SCREEN PRINTING	1	1	1	UP TO 30 DAYS
48.0303	UPHOLSTERING	780.687-022	INSPECTOR	2	1	2	THREE TO SIX MONTHS
		789.687-038	COVER INSPECTOR	3	2	2	30 TO 90 DAYS
48.0304	SHOE AND BOOT REPAIR	753.687-018	FINAL INSPECTOR	3	2	2	30 TO 90 DAYS
		788.384-010	INSPECTOR	3	2	2	THREE TO SIX MONTHS
		788.667-010	ODD-SHOE EXAMINER	3	1	1	30 TO 90 DAYS
		788.687-034	COLOR MATCHER	2	2	1	THREE TO SIX MONTHS
		788.687-110	SHANK INSPECTOR	2	1	1	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	525.687-022	COOLER ROOM WORKER	2	2	1	UP TO 30 DAYS
		525.687-042	HIDE INSPECTOR	2	1	2	30 TO 90 DAYS
		529.587-014	SAUSAGE INSPECTOR	1	1	1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	502.382-014	FLUOROSCOPE OPERATOR	3	3	3	SIX TO 12 MONTHS

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OCCUPATION: 7820 PRODUCTION INSPECTORS, CHECKERS AND EXAMINERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRA'NING TIME
CODE	TITLE	CODE	TITLE	R M L	
		514.687-010	CASTING INSPECTOR	2 2 2	30 TO 90 DAYS
		518.687-010	CORE CHECKER	2 2 2	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	602.362-010	GEAR INSPECTOR	4 3 3	ONE TO TWO YEARS
		609.684-010	INSPECTOR, GENERAL	3 2 2	THREE TO SIX MONTHS
48.0504	METAL FABRICATION	502.382-014	FLUOROSCOPE OPERATOR	3 3 3	SIX TO 12 MONTHS
		619.364-010	INSPECTOR 1	3 3 3	ONE TO TWO YEARS
		703.687-018	METAL-FINISH INSPECTOR	3 1 2	THREE TO SIX MONTHS
		709.684-018	ASSEMBLY-LINE INSPECTOR	3 2 2	THREE TO SIX MONTHS
		709.687-026	INSPECTOR, WIRE PRODUCTS	2 1 2	30 TO 90 DAYS
		709.687-038	SPRING INSPECTOR 2	2 2 2	UP TO 30 DAYS
		734.687-062	INSPECTOR, SLIDE FASTENERS	3 2 2	THREE TO SIX MONTHS
		809.687-018	INSPECTOR AND TESTER	2 1 2	30 TO 90 DAYS
48.0506	SHEET METAL	703.687-010	ASSORTER	3 2 2	THREE TO SIX MONTHS
		703.687-014	METAL-FINISH INSPECTOR	3 2 2	SIX TO 12 MONTHS
		709.367-010	INSPECTOR, METAL CAN	4 3 3	SIX TO 12 MONTHS
		709.587-014	SPOILAGE WORKER	2 1 2	THREE TO SIX MONTHS
48.0507	TOOL AND DIE MAKING	701.684-014	INSPECTOR, OPEN DIE	3 2 2	THREE TO SIX MONTHS
48.0508	WELDING	869.367-018	PIPE-LINE-CONSTRUCTION INSPECTOR	4 3 3	FOUR TO TEN YEARS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	575.687-030	PRESS-PIPE INSPECTOR	3 2 2	UP TO 30 DAYS
		579.367-010	QUALITY-CONTROL INSPECTOR	3 2 3	30 TO 90 DAYS
		579.687-022	GLASS INSPECTOR	2 1 2	30 TO 90 DAYS
		579.687-030	SELECTOR	2 2 1	30 TO 90 DAYS
		701.687-022	LEVEL-VIAL CURVATURE GAGER	2 1 2	30 TO 90 DAYS
		701.687-026	LEVEL-VIAL INSPECTOR-AND-TESTER	2 1 2	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-034	INSPECTOR	3 2 2	THREE TO SIX MONTHS
		734.687-026	BUCKLE INSPECTOR	2 1 1	UP TO 30 DAYS
		735.587-010	COLORING CHECKER	3 1 1	THREE TO SIX MONTHS
		770.267-010	DIAMOND EXPERT	4 3 3	FOUR TO TEN YEARS
48.0604	PLASTICS	554.587-010	ROLL INSPECTOR	2 2 2	30 TO 90 DAYS
		556.684-010	CELL INSPECTOR	2 1 1	THREE TO SIX MONTHS
		559.687-074	INSPECTOR AND HAND PACKAGER	2 1 2	UP TO 30 DAYS
48.0702	FURNITURE MAKING	763.684-010	ASSEMBLY INSPECTOR	3 1 2	SIX TO 12 MONTHS
		763.684-070	STOCK-PARTS INSPECTOR	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 7820 PRODUCTION INSPECTORS, CHECKERS AND EXAMINERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		763.687-014	CHAIR INSPECTOR AND LEVELER	2 1 2	30 TO 90 DAYS
		763.687-026	FINISHED-STOCK INSPECTOR	3 2 2	THREE TO SIX MONTHS
48.0703	MILLWORK AND CABINET MAKING	762.687-014	BOX INSPECTOR	2 1 2	UP TO 30 DAYS
		769.684-022	FINAL INSPECTOR, SHUTTLE	3 2 2	THREE TO SIX MONTHS
		769.684-046	SHUTTLE INSPECTOR	3 2 2	THREE TO SIX MONTHS
		769.687-014	BOBBIN INSPECTOR	2 1 1	UP TO 30 DAYS
		769.687-026	INSPECTOR	2 2 2	30 TO 90 DAYS
49.0306	MARINE MAINTENANCE	806.264-010	HULL INSPECTOR	4 2 2	FOUR TO TEN YEARS
		806.687-026	INSPECTOR, ALUMINUM BOAT	2 1 2	30 TO 90 DAYS
		806.687-042	OUTBOARD-MOTOR INSPECTOR	3 2 2	THREE TO SIX MONTHS

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OCCUPATION: 7830

PRODUCTION TESTERS

These workers test materials and products to see that they meet standard requirements. They perform chemical, electrical, mechanical, or other tests. They work in a variety of industries. They test electrical equipment, glass, raw ores, car parts, or any of hundreds of other items.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	194.387-014	RECORD TESTER	3 2 3	THREE TO SIX MONTHS
		520.487-010	CHEESE BLENDER	4 4 3	ONE TO TWO YEARS
		522.584-010	OLIVE BRINE TESTER	2 2 2	30 TO 90 DAYS
		522.587-010	CARBONATION TESTER	3 2 2	UP TO 30 DAYS
		529.367-022	QUALITY-CONTROL TECHNICIAN	3 3 2	SIX TO 12 MONTHS
		529.387-014	CIGARETTE TESTER	3 3 3	SIX TO 12 MONTHS
		529.387-022	GAGER	3 2 2	SIX TO 12 MONTHS
		529.387-030	QUALITY-CONTROL TECHNICIAN	3 2 3	THREE TO SIX MONTHS
		529.487-010	SPECIAL TESTER	3 3 3	30 TO 90 DAYS
		529.587-010	BOTTLE GAGER	3 2 2	30 TO 90 DAYS
		529.687-162	MOISTURE-METER OPERATOR	2 2 2	UP TO 30 DAYS
		539.364-010	PULP-AND-PAPER TESTER	3 3 3	SIX TO 12 MONTHS
		549.364-010	TESTER, COMPRESSED GASES	3 3 2	30 TO 90 DAYS
		553.364-010	SAMPLE TESTER	3 2 3	SIX TO 12 MONTHS
		557.564-014	PUMP TESTER	3 2 2	THREE TO SIX MONTHS
		559.667-010	TABLET TESTER	2 2 2	30 TO 90 DAYS
		563.687-014	MOISTURE TESTER	2 2 1	UP TO 30 DAYS
		579.384-014	QUALITY TECHNICIAN, FIBERGLASS	3 3 3	THREE TO SIX MONTHS
		579.387-010	MAT TESTER	3 2 2	30 TO 90 DAYS
		582.387-010	COLOR CHECKER, ROVING OR YARN	3 2 3	30 TO 90 DAYS
		582.587-010	CHEMICAL-STRENGTH TESTER	3 2 2	UP TO 30 DAYS
		586.685-038	TESTING-MACHINE OPERATOR	3 2 3	THREE TO SIX MONTHS
		587.384-010	CLOTH-SHRINKING TESTER	3 2 3	30 TO 90 DAYS
		589.384-010	PRODUCT TESTER, FIBERGLASS	3 2 3	SIX TO 12 MONTHS
		589.684-010	RAKER, BUFFING WHEEL	2 1 2	30 TO 90 DAYS
		614.684-014	TESTER OPERATOR	2 2 2	30 TO 90 DAYS
		616.685-010	CHAIN-TESTING-MACHINE OPERATOR	2 1 2	THREE TO SIX MONTHS
		616.685-034	LOAD TESTER	2 2 2	30 TO 90 DAYS
		684.384-010	QUALITY-CONTROL TESTER	3 2 2	THREE TO SIX MONTHS
		689.384-010	CLOTH TESTER, QUALITY	3 3 3	THREE TO SIX MONTHS
		689.384-014	LABORATORY TESTER	3 3 3	THREE TO SIX MONTHS
		690.685-182	FORCE-VARIATION EQUIPMENT TENDER	2 1 2	UP TO 30 DAYS
		709.687-054	ULTRASONIC TESTER	3 2 2	30 TO 90 DAYS
		710.685-010	SHAKE-TEST MACHINE TENDER	1 1 1	UP TO 30 DAYS
		710.687-014	BELLOWS TESTER	3 2 2	30 TO 90 DAYS

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OCCUPATION: 7530 PRODUCTION TESTERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
		714.667-010	SENSITIZED-PAPER TESTER	2	1 1	30 TO 90 DAYS
		723.684-022	FLASHER ADJUSTER	2	1 1	UP TO 30 DAYS
		727.384-010	BATTERY TESTER	3	3 2	30 TO 90 DAYS
		727.687-018	ALUMINUM-CONTAINER TESTER	2	2 2	30 TO 90 DAYS
		727.687-050	ELECTRIC-CONTAINER TESTER	2	2 2	30 TO 90 DAYS
		727.687-078	SPARK TESTER	2	2 2	UP TO 30 DAYS
		729.684-010	BATTERY-CHARGER TESTER	3	2 2	30 TO 90 DAYS
		736.367-010	AUTOMOTIVE-TIRE TESTER	4	3 4	TWO TO FOUR YEARS
		736.387-014	PROOF-TECHNICIAN HELPER	3	2 3	THREE TO SIX MONTHS
		737.387-010	DROP TESTER	3	3 2	30 TO 90 DAYS
		737.387-018	PRESSURE-TEST OPERATOR	3	3 2	THREE TO SIX MONTHS
		737.687-086	MERCURY-CRACKING TESTER	1	1 1	UP TO 30 DAYS
		739.387-014	HAIR-SAMPLE MATCHER	3	2 1	SIX TO 12 MONTHS
		750.382-010	TIRE TECHNICIAN	3	3 3	SIX TO 12 MONTHS
		806.283-010	TEST DRIVER 2	4	3 3	TWO TO FOUR YEARS
		806.382-010	DIFFERENTIAL TESTER	3	2 3	THREE TO SIX MONTHS
		806.382-014	HYPOID-GEAR TESTER	3	2 3	THREE TO SIX MONTHS
		806.384-018	PUMP INSTALLER-AND-TESTER	2	2 2	THREE TO SIX MONTHS
		806.384-026	TESTER, MOTOR	3	2 3	THREE TO SIX MONTHS
		806.684-134	TRANSMISSION TESTER	3	2 3	THREE TO SIX MONTHS
		862.687-014	HOLIDAY-DETECTOR OPERATOR	2	1 2	UP TO 30 DAYS
		920.687-194	VACUUM TESTER, CANS	1	1 1	UP TO 30 DAYS
		929.382-010	LOAD-TEST MECHANIC	3	2 3	ONE TO TWO YEARS
03.0404	FOREST PRODUCTS PROCESSING TECHNOLOGY	762.384-010	GLUED WOOD TESTER	4	3 4	TWO TO FOUR YEARS
10.0105	SOUND RECORDING TECHNOLOGY	*194.387-014	RECORD TESTER	3	2 3	THREE TO SIX MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	789.387-010	QUALITY-CONTROL CHECKER	3	2 3	SIX TO 12 MONTHS
46.0502	PIPEFITTING AND STEAMFITTING	862.687-018	HYDRO-PNEUMATIC TESTER	3	2 2	THREE TO SIX MONTHS
47.0102	BUSINESS MACHINE REPAIR	706.382-010	FUNCTIONAL TESTER, TYPEWRITERS	3	2 2	THREE TO SIX MONTHS
		706.387-014	MACHINE TESTER	3	2 2	THREE TO SIX MONTHS
47.0103	COMMUNICATION ELECTRONICS	720.684-010	ASSEMBLY ADJUSTER	2	2 1	30 TO 90 DAYS
		720.687-014	RECORD-CHANGER TESTER	2	1 1	UP TO 30 DAYS
47.0104	COMPUTER ELECTRONICS	726.684-026	ELECTRONICS TESTER 2	3	3 3	30 TO 90 DAYS
47.0105	INDUSTRIAL ELECTRONICS	724.384-010	ARMATURE TESTER 1	3	2 2	THREE TO SIX MONTHS
		724.384-014	STATIC BALANCER	3	2 2	30 TO 90 DAYS

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OCCUPATION: 7830 PRODUCTION TESTERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		725.687-014	COILER	2 2 2	30 TO 90 DAYS
		728.684-018	SPARK TESTER	2 2 2	THREE TO SIX MONTHS
		729.387-014	DEICER TESTER	3 2 2	THREE TO SIX MONTHS
		729.387-026	INSULATOR TESTER	3 2 2	THREE TO SIX MONTHS
		729.684-058	TESTER, ELECTRICAL CONTINUITY	3 2 2	30 TO 90 DAYS
47.0106	MAJOR APPLIANCE REPAIR	827.384-010	REFRIGERATOR TESTER	3 2 3	SIX TO 12 MONTHS
47.0107	MOTOR REPAIR	724.384-010	ARMATURE TESTER 1	3 2 2	THREE TO SIX MONTHS
		724.384-014	STATIC BALANCER	3 2 2	30 TO 90 DAYS
		729.684-058	TESTER, ELECTRICAL CONTINUITY	3 2 2	30 TO 90 DAYS
47.0108	SMALL APPLIANCE REPAIR	709.382-010	SEWING-MACHINE TESTER	3 2 2	SIX TO 12 MONTHS
		723.687-018	TESTER, WASTE DISPOSAL LEAKAGE	2 2 2	30 TO 90 DAYS
47.0109	VENDING AND RECREATIONAL MACHINE REPAIR	637.684-014	QUALITY-CONTROL TECHNICIAN	3 3 3	30 TO 90 DAYS
47.0202	COOLING AND REFRIGERATION	827.384-010	REFRIGERATOR TESTER	3 2 3	SIX TO 12 MONTHS
		827.584-014	GAS-LEAK TESTER	2 1 1	UP TO 30 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	930.382-014	PIPE TESTER	3 3 2	SIX TO 12 MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	622.382-010	TRIPLE-AIR-VALVE TESTER	3 3 3	TWO TO FOUR YEARS
		710.384-030	THERMOMETER TESTER	3 2 2	SIX TO 12 MONTHS
		710.387-010	TESTER, REGULATOR	3 2 2	THREE TO SIX MONTHS
47.0402	GUNSMITHING	736.684-042	TARGETEER	3 1 1	30 TO 90 DAYS
47.0404	MUSICAL INSTRUMENT REPAIR	730.684-086	TESTER	3 2 2	ONE TO TWO YEARS
47.0408	WATCH REPAIR	715.634-018	BALANCE TRUER	3 2 2	THREE TO SIX MONTHS
		715.685-034	INSPECTOR, TIMING	3 2 2	SIX TO 12 MONTHS
		715.685-066	TORQUE TESTER	2 1 2	30 TO 90 DAYS
		715.687-034	GAGER	3 2 2	THREE TO SIX MONTHS
		715.687-130	WINDER	2 1 2	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	729.387-026	INSULATOR TESTER	3 2 2	THREE TO SIX MONTHS
47.0603	AUTOMOTIVE BODY REPAIR	807.587-010	WATER-TEST RIDER	2 1 2	30 TO 90 DAYS
47.0606	SMALL ENGINE REPAIR	620.384-010	MOTORCYCLE TESTER	3 3 3	SIX TO 12 MONTHS
48.0502	FOUNDRY WORK	512.467-010	POTLINE MONITOR	3 2 2	THREE TO SIX MONTHS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		512.667-010	TEMPERATURE REGULATOR, PYROMETER	2 2 2	UP TO 30 DAYS
		519.387-010	MANOMETER TECHNICIAN	3 2 2	30 TO 90 DAYS
		519.585-010	HARDNESS TESTER	3 2 2	30 TO 90 DAYS
		519.585-018	SAMPLE TESTER-GRINDER	3 2 2	THREE TO SIX MONTHS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.387-010	HARDNESS INSPECTOR	3 3 2	THREE TO SIX MONTHS
		706.382-014	TESTER, SOUND	3 2 2	THREE TO SIX MONTHS
48.0504	METAL FABRICATION	709.687-042	SPRING TESTER 2	2 1 2	UP TO 30 DAYS
48.0506	SHEET METAL	703.685-014	TESTING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
48.0508	WELDING	819.687-010	WELD INSPECTOR 2	3 2 2	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	579.367-014	QUALITY-CONTROL TECHNICIAN	3 3 3	THREE TO SIX MONTHS
		579.384-010	BRICK TESTER	2 2 1	THREE TO SIX MONTHS
		579.384-018	WARE TESTER	3 3 3	SIX TO 12 MONTHS
48.0604	PLASTICS	559.367-010	QUALITY-CONTROL TESTER	3 2 3	THREE TO SIX MONTHS
		559.584-010	ROLL-TENSION TESTER	2 1 2	30 TO 90 DAYS

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OCCUPATION: 7840

PRODUCTION SAMPLERS AND WEIGHERS

These people detain samples of products or materials and weigh and test them to make sure that they meet certain standards. They perform tests on the samples or prepare them for testing by other workers. The products and materials they work with range from iron ore and metal sheets to cookie crumbs and coffee. Some workers weigh specified amounts of raw materials for use in making products. Many jobs require that workers record information about samples taken, such as their weight, quality, test results, and color.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	511.667-014	COLOR TESTER	3	1	2	30 TO 90 DAYS
		515.567-010	WEIGHER-AND-CRUSHER	3	1	1	THREE TO SIX MONTHS
		520.686-026	GLUCOSE-AND-SIRUP WEIGHER	1	1	1	UP TO 30 DAYS
		520.687-026	CASING-MATERIAL WEIGHER	2	1	2	UP TO 30 DAYS
		520.687-042	HOP WEIGHER	2	1	2	30 TO 90 DAYS
		529.367-018	QUALITY-CONTROL INSPECTOR	3	2	2	THREE TO SIX MONTHS
		529.387-034	SAMPLER	3	2	2	THREE TO SIX MONTHS
		529.485-026	WEIGH-TANK OPERATOR	3	2	2	30 TO 90 DAYS
		529.587-022	TOBACCO-SAMPLE PULLER	2	1	1	UP TO 30 DAYS
		529.685-194	RAW-JUICE WEIGHER	1	1	1	UP TO 30 DAYS
		529.687-046	COFFEE WEIGHER	1	1	1	SHORT DEMONSTRATION
		529.687-178	SAMPLER	2	2	2	UP TO 30 DAYS
		539.387-010	CHIP TESTER	3	3	2	30 TO 90 DAYS
		539.485-010	WEIGHT TESTER	3	3	3	UP TO 30 DAYS
		549.587-014	SAMPLER	2	2	1	30 TO 90 DAYS
		549.587-018	SAMPLER	2	2	1	UP TO 30 DAYS
		550.584-014	SAMPLE-COLOR MAKER	2	1	1	UP TO 30 DAYS
		550.587-014	SAMPLE COLLECTOR	2	1	1	UP TO 30 DAYS
		555.687-010	SCALE OPERATOR	2	1	2	UP TO 30 DAYS
		559.687-070	WEIGHER OPERATOR	2	1	2	30 TO 90 DAYS
		560.587-010	COMPOUNDER, CORK	2	2	2	UP TO 30 DAYS
		579.484-010	SAMPLER	3	2	1	THREE TO SIX MONTHS
		579.585-010	SAMPLER-TESTER	2	2	2	30 TO 90 DAYS
		582.684-010	PATCH FINISHER	2	1	2	UP TO 30 DAYS
		590.487-010	COLOR WEIGHER	3	2	3	THREE TO SIX MONTHS
		599.684-014	SAMPLER	2	2	2	30 TO 90 DAYS
		680.367-010	ROVING SIZER	3	2	3	THREE TO SIX MONTHS
		680.687-018	ROVING-WEIGHT GAGER	2	1	2	THREE TO SIX MONTHS
		701.687-014	BLADE BALANCER	1	1	1	UP TO 30 DAYS
		737.487-010	PROPELLANT-CHARGE LOADER	2	2	2	UP TO 30 DAYS
		737.687-026	CHECK WEIGHER	1	1	1	UP TO 30 DAYS
		737.687-126	SHADOWGRAPH-SCALE OPERATOR	2	1	2	UP TO 30 DAYS
		920.687-054	CAN PATCHER	2	2	2	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 7840 PRODUCTION SAMPLERS AND WEIGHERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		922.687-038	COAL SAMPLER	2	1	1	UP TO 30 DAYS
		922.687-054	LABORATORY-SAMPLE CARRIER	2	1	1	UP TO 30 DAYS
		929.587-014	WEIGHER, PRODUCTION	2	1	2	30 TO 90 DAYS
20.0402	BAKING	520.487-018	PANTRY WORKER	3	2	2	30 TO 90 DAYS
20.0406	FOOD SERVICE	529.684-014	INGREDIENT SCALER	3	2	3	UP TO 30 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	939.687-030	SAMPLE WASHER	1	1	1	UP TO 30 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.487-010	BOWLING-BALL WEIGHER AND PACKER	2	2	1	THREE TO SIX MONTHS
		732.587-014	GOLF-CLUB WEIGHER	2	1	2	UP TO 30 DAYS
		732.687-086	WEIGHER	2	2	1	UP TO 30 DAYS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	714.687-010	CHECKER, FILM TESTS	3	1	2	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	509.584-010	TEST PREPARER	2	2	2	THREE TO SIX MONTHS
		512.487-010	METAL CONTROL WORKER	3	2	2	30 TO 90 DAYS
		519.484-014	RAW SAMPLER	3	1	1	THREE TO SIX MONTHS
		519.687-042	TEST WORKER	1	1	1	UP TO 30 DAYS
49.0203	MATERIAL HANDLING	921.365-010	GRAIN RECEIVER	2	2	1	UP TO 30 DAYS
		929.687-046	SCALER-PACKER	2	1	2	30 TO 90 DAYS
49.0204	MINING EQUIPMENT OPERATION	939.585-010	DUST SAMPLER	2	2	2	30 TO 90 DAYS

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OCCUPATION: 7850

GRADERS AND SORTERS, EXCEPT AGRICULTURAL

These workers examine articles or materials and then sort them based on size, shape, color, fineness, or some other standard. They grade and sort raw materials and parts to be used in making or processing goods. They also may grade and sort finished products. They work in a variety of industries and settings. For example, they may sort ironed flatwork at a laundry, or grade rice as it is unloaded from freight cars. They may sort jewelry items for inventory purposes, or grade and sort logs for use in making lumber.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
00.0000	NO CIP ASSIGNED	520.387-010	BLENDER	3	2 2	THREE	TO SIX MONTHS
		521.687-062	FISH-LIVER SORTER	2	1 1	UP TO	30 DAYS
		521.687-086	NUT SORTER	1	1 1	UP TO	30 DAYS
		523.687-010	COFFEE-ROASTER HELPER	1	1 1	UP TO	30 DAYS
		529.587-018	SCRAP SEPARATOR	1	1 1	UP TO	30 DAYS
		529.687-082	FISH-BIN TENDER	2	1 1	UP TO	30 DAYS
		529.687-098	GRADER	2	1 2	30 TO	90 DAYS
		529.687-110	GRAIN PICKER	2	2 2	UP TO	30 DAYS
		529.687-134	LEAF SORTER	2	1 1	UP TO	30 DAYS
		529.687-142	LEAF-SIZE PICKER	1	1 1	UP TO	30 DAYS
		529.687-198	SUMATRA OPENER	1	1 1	UP TO	30 DAYS
		529.687-218	WRAPPER SELECTOR	2	1 1	30 TO	90 DAYS
		559.567-014	WEIGHER AND GRADER	2	2 2	30 TO	90 DAYS
		559.687-066	TUBE SORTER	2	1 2	30 TO	90 DAYS
		569.587-010	VENEER GRADER	2	2 2	30 TO	90 DAYS
		569.687-022	SORTER 1	1	1 1	UP TO	30 DAYS
		570.682-010	ABRASIVE GRADER	3	2 2	THREE TO	SIX MONTHS
		579.684-014	CRAYON GRADER	2	1 2	30 TO	90 DAYS
		582.687-010	BAGGER	1	1 1	UP TO	30 DAYS
		589.387-018	WOOL-AND-PELT GRADER	3	2 2	THREE TO	SIX MONTHS
		589.687-050	WOOL PULLER	2	1 2	30 TO	90 DAYS
		619.387-010	SALVAGE WORKER	3	2 2	THREE TO	SIX MONTHS
		649.665-010	SORTING-MACHINE OPERATOR	2	1 1	UP TO	30 DAYS
		649.687-010	PAPER SORTER AND COUNTER	2	2 1	UP TO	30 DAYS
		649.687-014	PAPER-CONE GRADER	2	1 1	UP TO	30 DAYS
		679.567-010	STONE GRADER	2	2 2	THREE TO	SIX MONTHS
		681.687-022	WARP-YARN SORTER	2	1 2	UP TO	30 DAYS
		689.387-010	CLOTH GRADER	3	1 2	SIX TO	12 MONTHS
		689.687-062	RAW-SILK GRADER	3	2 2	THREE TO	SIX MONTHS
		689.687-086	YARN SORTER	2	1 2	UP TO	30 DAYS
		712.687-018	GAGER	2	1 2	UP TO	30 DAYS
		716.687-026	LENS-BLANK GAGER	3	2 2	30 TO	90 DAYS
		734.687-038	BUTTON GRADER	2	1 2	THREE TO	SIX MONTHS
		734.687-066	QUILL-BUNCHER-AND-SORTER	2	1 2	30 TO	90 DAYS

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OCCUPATION: 7850 GRADERS AND SORTERS, EXCEPT AGRICULTURAL (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		734.687-070	SHELL-GRADER	3	1 2	THREE	TO SIX MONTHS
		734.687-082	SORTER	2	1 2	30 TO 90	DAYS
		735.687-030	SORTER	2	2 2	30 TO 90	DAYS
		739.687-042	BROOMCORN GRADER	2	1 2	30 TO 90	DAYS
		750.687-022	TIKE SORTER	2	1 2	30 TO 90	DAYS
		769.687-010	BASKET GRADER	2	1 1	UP TO 30	DAYS
		769.687-034	PLUG SORTER	1	1 1	UP TO 30	DAYS
		769.687-042	SORTER 2	1	1 1	UP TO 30	DAYS
		769.687-046	VENEER MATCHER	3	1 1	THREE TO SIX MONTHS.	
		769.687-050	VENEER-STOCK GRADER	2	1 1	UP TO 30	DAYS
		774.687-010	BISQUE GRADER	3	2 3	30 TO 90	DAYS
		783.687-022	MATCHER, LEATHER PARTS	2	1 2	30 TO 90	DAYS
		789.687-010	BAG CUTTER	2	1 1	UP TO 30	DAYS
		789.687-034	CLOTH-STOCK SORTER	2	1 2	UP TO 30	DAYS
		789.687-146	REMNANT SORTER	2	1 1	UP TO 30	DAYS
		790.687-014	CIGAR PACKER	2	1 2	30 TO 90	DAYS
		790.687-026	REJECT OPENER	2	1 1	30 TO 90	DAYS
		794.687-018	COUNTER, HAND	2	1 2	30 TO 90	DAYS
		922.687-018	BOBBIN SORTER	2	1 1	UP TO 30	DAYS
		922.687-074	LUMBER SORTER	1	1 1	UP TO 30	DAYS
		922.687-086	RETURNED-GOODS SORTER	2	1 2	UP TO 30	DAYS
		929.687-050	WRAPPER COUNTER	2	1 1	UP TO 30	DAYS
		939.687-010	BELT PICKER	1	1 1	SHORT DEMONSTRATION	
01.0402	FOOD PRODUCTS	525.387-010	GRADER, MEAT	3	2 1	SIX TO 12 MONTHS	
		529.367-026	ROUGH-RICE GRADER	3	2 2	SIX TO 12 MONTHS	
		529.387-018	FRUIT-BUYING GRADER	3	3 2	30 TO 90 DAYS	
02.0301	FOOD SCIENCES	529.387-010	CHEESE GRADER	3	2 2	SIX TO 12 MONTHS	
03.0403	FOREST PRODUCTS UTILIZATION	455.367-010	LOG GRADER	3	3 2	ONE TO TWO YEARS	
		669.587-010	GRADER	3	2 2	THREE TO SIX MONTHS	
		921.685-054	SORTER OPERATOR	2	1 1	THREE TO SIX MONTHS	
12.0101	DRYCLEANING AND LAUNDERING SERVICES	361.587-010	FLATWORK TIER	2	2 2	UP TO 30 DAYS	
		361.687-010	ASSEMBLER, WET WASH	2	1 1	UP TO 30 DAYS	
		361.687-014	CLASSIFIER	2	1 2	UP TO 30 DAYS	
		361.687-022	LINEN GRADER	2	1 1	UP TO 30 DAYS	
		369.687-010	ASSEMBLER	2	1 2	30 TO 90 DAYS	
20.0302	CLOTHING MAINTENANCE AIDE	369.687-010	ASSEMBLER	2	1 2	30 TO 90 DAYS	
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	684.687-010	PAIRER	3	2 1	THREE TO SIX MONTHS	

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		734.687-094	ZIPPER TRIMMER, HAND	2	2	2	UP TO 30 DAYS
		781.667-010	ASSEMBLER	2	1	2	UP TO 30 DAYS
		781.684-062	WASTE SALVAGER	3	1	2	30 TO 90 DAYS
		781.687-010	ASSEMBLER	2	1	2	30 TO 90 DAYS
		782.687-050	SECONDS HANDLER	2	1	1	UP TO 30 DAYS
		783.384-010	FUR SORTER	3	1	2	TWO TO FOUR YEARS
		784.387-014	LEATHER GRADER	3	2	2	SIX TO 12 MONTHS
		784.587-010	HAT-BODY SORTER	2	1	2	UP TO 30 DAYS
		784.687-034	GLOVE PAIRER	2	1	1	UP TO 30 DAYS
		784.697-050	MATERIAL ASSEMBLER	3	1	2	30 TO 90 DAYS
		789.487-010	PLEAT TAPER	1	1	1	UP TO 30 DAYS
		789.687-142	REDYE HAND	3	1	1	30 TO 90 DAYS
20.0406	FOOD SERVICE	526.687-010	POTATO-CHIP SORTER	1	1	1	SHORT DEMONSTRATION
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.587-010	SORTER, UPHOLSTERY PARTS	2	1	2	30 TO 90 DAYS
20.0605	EXECUTIVE HOUSEKEEPING	361.587-010	FLATWORK TIER	2	2	2	UP TO 30 DAYS
		361.687-010	ASSEMBLER, WET WASH	2	1	1	UP TO 30 DAYS
		361.687-014	CLASSIFIER	2	1	2	UP TO 30 DAYS
		361.687-022	LINEN GRADER	2	1	1	UP TO 30 DAYS
47.0102	BUSINESS MACHINE REPAIR	706.587-014	SORTER	2	2	2	30 TO 90 DAYS
47.0408	WATCH REPAIR	770.687-018	JEWEL GAGER	3	2	2	THREE TO SIX MONTHS
		770.687-022	JEWEL INSPECTOR	3	3	2	THREE TO SIX MONTHS
48.0202	BOOKBINDING	977.687-010	COLLATOR, HAND	2	1	1	30 TO 90 DAYS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	976.687-010	EDITOR, SCHOOL PHOTOGRAPH	3	1	2	SIX TO 12 MONTHS
48.0303	UPHOLSTERING	780.587-010	SORTER, UPHOLSTERY PARTS	2	1	2	30 TO 90 DAYS
48.0304	SHOE AND BOOT REPAIR	753.587-010	SORTER	2	1	1	UP TO 30 DAYS
		788.387-010	UPPER-LEATHER SORTER	3	2	2	THREE TO SIX MONTHS
		788.584-010	HEEL SORTER	3	2	2	THREE TO SIX MONTHS
		788.587-010	JOB PUTTER-UP AND TICKET PREPARER	3	2	2	30 TO 90 DAYS
		788.687-026	CASER, SHOE PARTS	3	2	2	30 TO 90 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	525.387-010	GRADER, MEAT	3	2	1	SIX TO 12 MONTHS
		525.687-102	SKIN GRADER	2	1	2	UP TO 30 DAYS
		529.687-026	CASING GRADER	2	1	1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		529.687-102	GRADER, DRESSED POULTRY	2	1	2	30 TO 90 DAYS
		529.687-106	GRADER, GREEN MEAT	2	1	2	30 TO 90 DAYS
48.0502	FOUNDRY WORK	509.687-022	WEIGHER, ALLOY	2	1	2	30 TO 90 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	573.687-034	SORTER	2	2	2	30 TO 90 DAYS
		573.687-038	TILE SORTER	2	1	2	30 TO 90 DAYS
		574.367-010	TILE SHADER	3	2	2	SIX TO 12 MONTHS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	734.687-030	BUCKLE SORTER	2	1	2	30 TO 90 DAYS
		770.687-014	DIAMOND SIZER AND SORTER	3	2	2	THREE TO SIX MONTHS

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OCCUPATION: 7870

PRODUCTION EXPEDITERS

PRODUCTION EXPEDITERS help keep work in factories moving smoothly. They see that workers are kept supplied with needed materials. They inspect work stations, relay instructions to workers, and inspect finished work. They may locate and gather needed parts or supplies and notify management of defective tools or equipment. They may also keep production records, instruct new workers, and help assemble products.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	529.167-010	FRUIT COORDINATOR	4 3 3	SIX TO 12 MONTHS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	784.687-030	FLOORWORKER- DISTRIBUTOR	2 1 1	UP TO 30 DAYS
49.0203	MATERIAL HANDLING	784.687-030	FLOORWORKER- DISTRIBUTOR	2 1 1	UP TO 30 DAYS
		788.687-046	FLOORWORKER, LASTING	2 1 2	UP TO 30 DAYS
		806.367-010	UTILITY WORKER, LINE ASSEMBLY	3 2 3	THREE TO SIX MONTHS

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OCCUPATION: 8099

TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS

These workers operate equipment to move people or materials. They may drive buses or taxis, fly planes, or navigate ships. They may drive trucks to deliver goods along a route or to transport goods long distances. Some operate hoists and cranes to fill ship holds or position equipment or materials at a construction site. They use bulldozers, dredges, shovels, and graders to carry out construction or mining operations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8100

SUPERVISORS: TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS

These workers supervise others who operate transportation and material moving equipment. They may supervise workers who operate equipment at construction or mining sites, ship yards, oil fields, or railroad yards. They may dispatch busses or delivery trucks. Others see to it that train cars are added or removed at the proper points. Supervisors plan work procedures and schedules, assign duties, prepare reports, and keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8110

SUPERVISORS: MOTORIZED EQUIPMENT OPERATORS

These workers supervise train crews or motor vehicle operators. They may work as conductors or yardmasters to see that passengers and freight reach their destination safely and on time. Others may plan routes and schedules for trucking companies or public transportation systems. They assign duties, interpret company policies to workers, and supervise work. They dispatch vehicles, keep business records, write reports, and arrange maintenance services.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8111

SUPERVISORS: MOTOR VEHICLE OPERATORS

These people supervise workers who operate vehicles to transport people or materials. These workers include: sales route drivers, bus and trolley operators, tank-truck drivers, and garage attendants. They plan routes, schedules, and deliveries. They interpret company policies to workers, assign them duties, and oversee their work. They keep business and personnel records and may write work reports. They oversee the loading and dispatching of vehicles and arrange maintenance services. They may also hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	292.137-014	SUPERVISOR, ROUTE SALES-DELIVERY DR	4 3 4	SIX TO 12 MONTHS
06.1401	MARKETING MANAGEMENT	187.167-150	MANAGER, STORAGE GARAGE	3 3 3	ONE TO TWO YEARS
08.0203	MARKETING OF BUSINESS OR PERSONAL SERVIC	187.167-150	MANAGER, STORAGE GARAGE	3 3 3	ONE TO TWO YEARS
08.1102	TRANSPORTATION MARKETING	913.167-014	DISPATCHER, BUS AND TROLLEY	4 3 4	TWO TO FOUR YEARS
		914.137-010	DISTRIBUTION SUPERVISOR	4 3 4	ONE TO TWO YEARS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	187.167-150	MANAGER, STORAGE GARAGE	3 3 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8113

RAILROAD CONDUCTORS AND YARDMASTERS

These workers are in charge of train and yard crews. They see that passengers and freight get to their destinations safely and on time. Those assigned to freight trains keep records of each car's contents and destination and make sure that cars are added or removed from the train at the proper points, along a route. Those assigned to passenger trains collect tickets and fares, answer passengers' questions, and signal the engineer when to pull out of the station.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	184.167-262	TRAIN DISPATCHER	4 3 4	TWO TO FOUR YEARS
		184.167-278	YARD MANAGER	4 3 3	TWO TO FOUR YEARS
		910.137-022	CONDUCTOR, YARD	4 3 3	ONE TO TWO YEARS
08.1102	TRANSPORTATION MARKETING	198.167-010	CONDUCTOR, PASSENGER CAR	4 3 4	FOUR TO TEN YEARS
		198.167-014	CONDUCTOR, PULLMAN	4 3 4	ONE TO TWO YEARS
		198.167-018	CONDUCTOR, ROAD FREIGHT	4 3 3	FOUR TO TEN YEARS
49.0203	MATERIAL HANDLING	910.167-010	CAR CHASER	3 2 3	ONE TO TWO YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8120

These people supervise workers who operate equipment used to move materials at construction sites, ship yards, railroad yards, oil fields, and other places. They plan work procedures, prepare work schedules, and see that work is done correctly and on time. They assign duties to workers and evaluate their work. They handle complaints, prepare reports, and may keep work records. They may help workers perform difficult tasks or relieve them during emergencies. They may also hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	929.132-010	SUPERVISOR, REACTOR FUELING	4 3 3	ONE TO TWO YEARS
06.2001	TRADE AND INDUSTRIAL SUPERVISION AND MAN	914.132-010	COMPRESSOR-STATION ENGINEER, CHIEF	4 3 4	FOUR TO TEN YEARS
		914.132-014	STATION ENGINEER, CHIEF	4 3 4	FOUR TO TEN YEARS
		939.131-018	WELL PULLER, HEAD	4 3 3	TWO TO FOUR YEARS
		953.137-010	GAS-PUMPING-STATION SUPERVISOR	4 3 3	TWO TO FOUR YEARS
08.1106	WAREHOUSE SERVICES MARKETING	922.137-026	WAREHOUSE TRAFFIC SUPERVISOR	3 2 2	SIX TO 12 MONTHS
15.0903	PETROLIUM TECHNOLOGY	939.131-018	WELL PULLER, HEAD	4 3 3	TWO TO FOUR YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	859.137-010	SUPERVISOR, GRADING	4 3 3	TWO TO FOUR YEARS
49.0203	MATERIAL HANDLING	911.137-018	HEADER	3 3 3	ONE TO TWO YEARS
		921.132-010	TRACK SUPERVISOR	3 2 2	THREE TO SIX MONTHS
		922.137-026	WAREHOUSE TRAFFIC SUPERVISOR	3 2 2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	921.133-014	LOAD-OUT SUPERVISOR	3 2 3	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8123

SUPERVISORS: MATERIAL MOVING EQUIPMENT OPERATORS

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8200

TRANSPORTATION OCCUPATIONS

These workers operate equipment to transport goods, resources, and passengers. They may operate trains, ships, trucks, or autos. They move people and products long distances or from one work area to another at the same site. They may operate cranes or bulldozers, or fly airplanes. Workers may operate equipment to control trains, maintain ship engines, or move ships through locks and bridges. Some workers inspect transportation equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 8210

MOTOR VEHICLE OPERATORS

Workers in these occupations drive cars and trucks that transport goods or people. They may drive tractor-trailer trucks between cities or across the country to deliver goods. They may drive heavy trucks that haul construction materials or smaller delivery trucks. Some operate school and public buses to transport people while others drive taxis or limousines for individuals. They must keep records and report maintenance problems. Some workers do minor repairs.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8212

TRUCK DRIVERS, TRACTOR-TRAILER

These people drive tractor-trailer trucks to carry goods between terminals. Some deliver a load to a nearby city, pick up another loaded trailer, and return it to their home base on the same day. Others make runs that take days to complete. On very long trips, they may work with a partner and sleep when the partner drives. Some drivers have regular runs. Others have schedules that change from trip to trip. Besides driving, they check their trucks and loads for safety, write trip reports, and may load or unload goods.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
03.0405	LOGGING	904.683-010	LOG-TRUCK DRIVER	3 1 2	THREE TO SIX MONTHS
49.0205	TRUCK AND BUS DRIVING	904.383-010	TRACTOR-TRAILER-TRUCK DRIVER	3 2 3	THREE TO SIX MONTHS
		904.683-010	LOG-TRUCK DRIVER	3 1 2	THREE TO SIX MONTHS
		905.663-018	VAN DRIVER	3 2 3	THREE TO SIX MONTHS
		909.663-010	HOSTLER	3 2 2	THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8213

TRUCK DRIVERS, HEAVY

These people drive single-body trucks that carry materials that weigh 3 tons or more. This type of truck includes dump, tow, flat bed, redi-mix, and tank trucks. Some of these trucks are mounted with special equipment. Drivers in these jobs may deliver loads to construction sites, warehouses, stores, or homes. They may load and unload goods or materials. They may collect receipts or payments for loads delivered and keep records of deliveries made. They may make minor repairs to trucks and report other repairs needed.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
01.0502	AGRICULTURAL SERVICES	905.483-010	MILK DRIVER	3	2	2	30 TO 90 DAYS
49.0205	TRUCK AND BUS DRIVING	900.683-010	CONCRETE-MIXING-TRUCK DRIVER	3	1	1	30 TO 90 DAYS
		902.683-010	DUMP-TRUCK DRIVER	3	1	1	UP TO 30 DAYS
		903.683-010	EXPLOSIVES-TRUCK DRIVER	3	1	2	30 TO 90 DAYS
		903.683-014	POWDER-TRUCK DRIVER	3	1	2	30 TO 90 DAYS
		903.683-018	TANK-TRUCK DRIVER	3	1	2	30 TO 90 DAYS
		905.483-010	MILK DRIVER	3	2	2	30 TO 90 DAYS
		905.663-010	GARBAGE COLLECTOR DRIVER	3	1	1	30 TO 90 DAYS
		905.663-014	TRUCK DRIVER, HEAVY	3	2	2	THREE TO SIX MONTHS
		905.683-010	WATER-TRUCK DRIVER 2	3	1	2	30 TO 90 DAYS
		919.663-018	DRIVER-UTILITY WORKER	3	1	1	THREE TO SIX MONTHS
		919.663-026	TOW-TRUCK OPERATOR	2	1	2	30 TO 90 DAYS
		953.583-010	DRIP PUMPER	3	2	2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8214

TRUCK DRIVERS, LIGHT (INCLUDING DELIVERY AND ROUTE DRIVERS)

People in these jobs drive trucks that carry less than 3 tons weight. These types of trucks include pick-up, delivery, and van trucks. Most of these workers drive trucks to deliver goods, materials, or machinery with a local area. They may deliver items to stores, homes, farms, plants, or construction sites. They may load and unload goods or materials. They often collect receipts of payments for items delivered and keep delivery records. They may do routine servicing of their trucks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	906.683-018	TELEPHONE-DIRECTORY-DISTRIBUTOR DRI	2	1 2	30 TO 90 DAYS
		919.663-022	ESCORT-VEHICLE DRIVER	2	1 2	UP TO 30 DAYS
01.0502	AGRICULTURAL SERVICES	906.683-014	LIQUID-FERTILIZER SERVICER	3	1 1	30 TO 90 DAYS
49.0205	TRUCK AND BUS DRIVING	906.683-010	FOOD-SERVICE DRIVER	2	1 1	30 TO 90 DAYS
		906.683-014	LIQUID-FERTILIZER SERVICER	3	1 1	30 TO 90 DAYS
		906.683-022	TRUCK DRIVER, LIGHT	3	2 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8215

BUS DRIVERS

BUS DRIVERS take passengers from place to place in a city or town or from city to city. They may drive a public bus to pick up and discharge passengers at bus stops along city streets. They may take children to schools in the morning and return them to their homes at the end of each school day. They may transport workers to and from work sites or drive a chartered bus to take groups to and from different locations. They may drive an intercity bus and pick up and discharge passengers in many cities along a route.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
01.0502	AGRICULTURAL SERVICES	913.363-010	BUS DRIVER, DAY-HAUL OR FARM CHARTE	3 2 2 30 TO 90 DAYS
49.0205	TRUCK AND BUS DRIVING	913.363-010	BUS DRIVER, DAY-HAUL OR FARM CHARTE	3 2 2 30 TO 90 DAYS
		913.463-010	BUS DRIVER	3 2 2 SIX TO 12 MONTHS
		913.663-014	MOBILE-LOUNGE DRIVER	3 2 2 30 TO 90 DAYS

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8216

TAXICAB DRIVERS AND CHAUFFEURS

People in these jobs drive cars, taxicabs, limousines, or hearses. They may work for themselves or for a company, factory, or private employer. They may drive passengers in a city cab, for example, or cars rented to customers. They may transport office workers and visitors for a business or industry. Some drive newly-assembled cars to shipping areas. Others drive private cars for their owners, or hearses or limousines for funeral parlors. They may make minor repairs to vehicles and keep records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	359.673-010	CHAUFFEUR	2 1 2	30 TO 90 DAYS
		359.673-014	CHAUFFEUR, FUNERAL CAR	2 1 2	THREE TO SIX MONTHS
		913.463-018	TAXI DRIVER	3 2 2	30 TO 90 DAYS
		919.663-010	DELIVERER, CAR RENTAL	2 2 2	30 TO 90 DAYS
		919.683-014	DRIVER	3 1 1	30 TO 90 DAYS
49.0205	TRUCK AND BUS DRIVING	913.663-010	CHAUFFEUR	3 2 2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8218

DRIVER-SALES WORKERS

These workers drive over assigned routes to deliver and sell goods or collect and deliver items. Their work duties depend upon the particular jobs they have. For example, some deliver newspapers or milk to homes or baked goods or other products to grocery stores. Others pick up and deliver laundry, or service and refill vending machines. Besides making deliveries, these workers also handle customer complaints and requests for service. They also may prepare billing slips and collect payments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	292.353-010 DRIVER, SALES ROUTE	3 2 3 30 TO 90 DAYS
	292.363-010 NEWSPAPER-DELIVERY DRIVER	3 2 2 THREE TO SIX MONTHS
	292.483-010 COIN COLLECTOR	3 2 3 30 TO 90 DAYS
	292.667-010 DRIVER HELPER, SALES ROUTE	2 2 2 UP TO 30 DAYS
08.0905 WAITER/WAITRESS AND RELATED SERVICES	292.463-010 LUNCH-TRUCK DRIVER	2 2 2 UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8219

OTHER MOTOR TRANSPORTATION OCCUPATIONS, N.E.C.

People in these jobs operate and control on-land vehicles to pick up and move materials or equipment. For example, some drive a sweeping machine that cleans streets of trash and dirt. Others deliver motorcycles. These workers start, stop, and control the movement of the vehicle. They pull levers, turn wheels, push buttons, and press pedals to operate the vehicle and its attachments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	912.663-010	AIRPORT UTILITY WORKER	3 2 3 THREE TO SIX MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	919.683-022	STREET-SWEEPER OPERATOR	2 1 1 30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8230

RAIL TRANSPORTATION OCCUPATIONS

These workers may operate and control railed vehicles such as locomotives, subway and elevated trains, streetcars, and industrial engines. Some operate and maintain equipment to regulate train operations and systems. They may inspect trains, safety brakes, and couplings, while others route train traffic, set traffic signals, or set out warning signals in emergencies. They may collect passenger tickets, help passengers board trains, and stow luggage.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8232

LOCOMOTIVE OPERATING OCCUPATIONS

People in these jobs control railed vehicles that carry people or materials. These vehicles include railroad locomotives, subway and elevated trains, streetcars, and industrial and mining rail engines. They follow train orders, train signals, and railroad rules and regulations. They inspect the vehicle before runs to make sure that necessary safety and other supplies are on hand. They move controls, such as a throttle and airbrakes, to drive the vehicles. They watch oil, temperature, and pressure gauges to make sure the engine is running properly. They watch for and give signals, and may prepare reports to explain accidents and delays.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	910.363-010	FIRER, LOCOMOTIVE	4	2	3 ONE TO TWO YEARS
		910.363-014	LOCOMOTIVE ENGINEER	4	2	3 TWO TO FOUR YEARS
		910.363-018	YARD ENGINEER	3	2	3 SIX TO 12 MONTHS
		910.683-010	HOSTLER	3	2	2 THREE TO SIX MONTHS
		910.683-014	MOTOR OPERATOR	3	2	2 SIX TO 12 MONTHS
		913.463-014	STREETCAR OPERATOR	3	2	2 30 TO 90 DAYS
		919.683-026	TRACKMOBILE OPERATOR	2	1	2 30 TO 90 DAYS
49.0203	MATERIAL HANDLING	919.683-018	RAIL-TRACTOR OPERATOR	3	2	2 THREE TO SIX MONTHS
49.0204	MINING EQUIPMENT OPERATION	919.663-014	DINKEY OPERATOR	3	2	2 THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8233

RAILROAD BRAKE, SIGNAL, AND SWITCH OPERATORS

These workers operate railroad track switches and couple cars to make up trains. They also inspect couplings, air hoses, handbrakes, and other train equipment to make sure they work properly. They may set out warning signals during emergencies, reroute train cars, and signal workers to set handbrakes. They may climb to the top of trains to inspect equipment or set car brakes. They may make minor repairs to equipment. Some collect tickets from passengers, help them board trains, and stow their baggage.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	910.364-010	BRAKER, PASSENGER TRAIN	3 2 3	THREE TO SIX MONTHS
		910.367-022	LOCOMOTIVE OPERATOR HELPER	2 2 2	30 TO 90 DAYS
		910.664-010	YARD COUPLER	3 2 2	THREE TO SIX MONTHS
		910.667-026	SWITCH TENDER	2 1 2	UP TO 30 DAYS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	910.367-010	BRAKE COUPLER, ROAD FREIGHT	3 2 3	THREE TO SIX MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	932.664-010	BRAKE HOLDER	2 1 1	30 TO 90 DAYS
49.0204	MINING EQUIPMENT OPERATION	932.664-010	BRAKE HOLDER	2 1 1	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8239

RAIL VEHICLE OPERATORS, N.E.C.

These workers operate equipment used to route train traffic, control track switches, or carry rail vehicles to servicing stations. Some operate switching equipment in a control tower to route train traffic at a switching point. They watch as trains approach and move switches to set traffic signals and route trains to different tracks. Some drive a special vehicle to take streetcars to and from servicing and storage areas. Some drive a transfer table equipped with a power winch to raise and move railroad cars and locomotives.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	910.362-010 TOWER OPERATOR	3 2 3 SIX TO 12 MONTHS
	910.382-010 CAR-RETARDER OPERATOR	3 2 3 SIX TO 12 MONTHS
	910.583-010 LABORER, CAR BARN	3 2 2 THREE TO SIX MONTHS
49.0202 CONSTRUCTION EQUIPMENT OPERATION	910.683-022 TRANSFER-TABLE OPERATOR	3 1 2 30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8240

WATER TRANSPORTATION OCCUPATIONS

These workers operate ships, boats, and barges. They may navigate and steer ships, direct crew, and keep daily records of ship activities. They may operate or tend equipment or engines, do such manual tasks as scrub decks and paint, or rig and stow gear. They may direct engine crew and oversee engine maintenance. They may be responsible for passengers, cargo, or fishing vessels, tugs, barges, and small submarines used for research or recovery of sunken objects.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 8241

SHIP CAPTAINS AND MATES

These workers command ships used to carry passengers, transport cargo, or catch fish. They navigate a ship and direct and supervise its crew. They use navigation tables and instruments to plot the ship's course. They operate radio units, depth finders, and other electronic equipment. They keep daily records of all activities aboard the ship. They inspect rigging, gear, and life-saving equipment and order needed repairs. They steer the ship, signal other vessels, and enforce safety and other rules. They may direct fishing, loading, or other activities.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
49.0302	BARGE AND BOAT OPERATIONS	197.133-014	MASTER, YACHT	4	4	4 FOUR TO TEN YEARS
		197.133-022	MATE, SHIP	4	4	4 TWO TO FOUR YEARS
		197.133-026	PILOT, SHIP	4	4	3 FOUR TO TEN YEARS
		197.163-010	FERRYBOAT CAPTAIN	4	4	4 TWO TO FOUR YEARS
		197.163-018	MASTER, RIVERBOAT	4	4	4 TWO TO FOUR YEARS
197.167-010	MASTER, SHIP	6	6	5 FOUR TO TEN YEARS		
49.0303	COMMERCIAL FISHING OPERATIONS	197.133-010	CAPTAIN, FISHING VESSEL	4	4	4 TWO TO FOUR YEARS
		197.133-018	MATE, FISHING VESSEL	4	4	4 TWO TO FOUR YEARS
49.0308	SAILORS AND DECKHANDS	197.133-018	MATE, FISHING VESSEL	4	4	4 TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 8242

BOAT AND BARGE OPERATORS

These people command and pilot barges, tugboats, motorboats, and dredges to transport people and materials, tow other vessels, or dredge waterways. A few command small submarines used to conduct ocean research or recover sunken objects. They use navigation instruments and knowledge of winds, weather, and tides to plot and steer a course. They supervise crew activities, inspect the boat and its equipment, and keep records of activities aboard the boat.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	911.664-010	FERRYBOAT OPERATOR, CABLE	2 2 2	30 TO 90 DAYS
		919.683-010	DOCK HAND	2 2 2	THREE TO SIX MONTHS
08.1102	TRANSPORTATION MARKETING	911.137-026	SUPERVISOR, FERRY TERMINAL	4 3 4	SIX TO 12 MONTHS
49.0302	BARGE AND BOAT OPERATIONS	197.133-030	TUGBOAT CAPTAIN	4 3 3	FOUR TO TEN YEARS
		197.133-034	TUGBOAT MATE	4 3 3	TWO TO FOUR YEARS
		197.137-010	DREDGE MATE	4 4 3	TWO TO FOUR YEARS
		197.161-010	DREDGE CAPTAIN	4 4 3	FOUR TO TEN YEARS
		197.163-014	MASTER, PASSENGER BARGE	4 4 4	TWO TO FOUR YEARS
		911.137-010	BARGE CAPTAIN	4 3 3	ONE TO TWO YEARS
		911.137-014	DERRICK-BOAT CAPTAIN	4 3 3	TWO TO FOUR YEARS
		911.363-010	FERRYBOAT OPERATOR	3 2 2	ONE TO TWO YEARS
		911.663-010	MOTORBOAT OPERATOR	3 2 3	SIX TO 12 MONTHS
49.0304	DEEP WATER DIVING AND LIFE SUPPORT SYSTE	911.263-010	DEEP SUBMERGENCE VEHICLE OPERATOR	3 2 2	TWO TO FOUR YEARS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOI-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8243

SAILORS AND DECK HANDS

People in these jobs operate and tend equipment and do much of the manual labor aboard ships. They work under the direction of a ship's officers. Their duties may range from scrubbing decks, painting, and cleaning to steering the ship and repairing gear. They may rig, repair, and stow cargo-handling and other gear. They must be able to tie common knots and handle mooring lines when a ship is docking or departing. They take part in fire drills and may stand watch to look out for other ships.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME
49.0203	MATERIAL HANDLING	911.364-014	BOAT LOADER 1	2 2 2 30 TO 90 DAYS
49.0302	BARGE AND BOAT OPERATIONS	911.363-014	QUARTERMASTER	3 3 3 ONE TO TWO YEARS
49.0308	SAILORS AND DECKHANDS	911.133-010	CADET, DECK	4 4 3 ONE TO TWO YEARS
		911.364-010	ABLE SEAMAN	3 2 2 SIX TO 12 MONTHS
		911.664-014	SAILOR, PLEASURE CRAFT	3 2 2 SIX TO 12 MONTHS
		911.687-022	DECKHAND	2 1 1 THREE TO SIX MONTHS
		911.687-030	ORDINARY SEAMAN	3 1 1 THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8244

MARINE ENGINEERS

MARINE ENGINEERS direct the work of crews that operate and maintain engines, boilers, deck machines, and other equipment on ships. They start and stop engines and regulate the speed of a ship. They see to it that proper water levels are maintained in boilers and condensers and that oil and grease cups are kept full. They read temperature and pressure gauges and record readings in a log. They also repair machinery. They use handtools and power tools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
15.0804	MARINE PROPULSION TECHNOLOGY	197.130-010	ENGINEER	4 3 3 FOUR TO TEN YEARS
49.0306	MARINE MAINTENANCE	911.584-010	MARINE OILER	3 2 2 THREE TO SIX MONTHS
49.0308	SAILORS AND DECKHANDS	197.130-010	ENGINEER	4 3 3 FOUR TO TEN YEARS

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OCCUPATION: 8245

BRIDGE, LOCK, AND LIGHTHOUSE TENDERS

These people control canal locks, dams, and bridges to permit the passage of vessels along waterways. Some control railroad or highway drawbridges over waterways, watch for approaching vessels and lower gates, halt street traffic, and raise the drawbridge. Others control machinery to open and close locks and dams on a canal, adjust bridges at a wharf, or move railroad cars into or out of a lock. A few direct ships from a lighthouse. These workers also may direct workers, keep records, and repair equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	371.362-010 DRAWBRIDGE OPERATOR	3 1 2 THREE TO SIX MONTHS
	911.131-014 LOCK TENDER, CHIEF OPERATOR	4 3 3 TWO TO FOUR YEARS
	911.362-010 LOCK OPERATOR	3 2 2 SIX TO 12 MONTHS
	919.682-010 BRIDGE OPERATOR, SLIP	3 2 2 THREE TO SIX MONTHS
49.0202 CONSTRUCTION EQUIPMENT OPERATION	850.663-018 LOCK TENDER 2	3 1 1 THREE TO SIX MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 8250

AIRPLANE PILOTS AND NAVIGATORS

These people fly or direct the course of planes and other aircraft. Most PILOTS fly planes to transport passengers and cargo. Many others perform tasks such as crop dusting, inspecting powerlines, and taking pictures. PILOTS may fly new aircraft to test their performance and safety. They may teach courses and give flying lessons. NAVIGATORS work with pilots. They locate the position and direct the course of aircraft. PILOTS AND NAVIGATORS use many complex instruments.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0502	AGRICULTURAL SERVICES	196.263-010	AIRPLANE PILOT	5 4 5	ONE TO TWO YEARS
02.0408	PLANT PROTECTION (PEST MANAGEMENT)	196.263-010	AIRPLANE PILOT	5 4 5	ONE TO TWO YEARS
49.0102	AIRPLANE PILOTING AND NAVIGATION (COMMER	196.167-010	CHIEF PILOT	5 4 5	OVER 10 YEARS
		196.167-014	NAVIGATOR	5 5 4	ONE TO TWO YEARS
		196.223-010	INSTRUCTOR, FLYING 1	5 4 5	TWO TO FOUR YEARS
		196.223-014	INSTRUCTOR, PILOT	5 4 5	FOUR TO TEN YEARS
		196.263-010	AIRPLANE PILOT	5 4 5	ONE TO TWO YEARS
		196.263-014	AIRPLANE PILOT, COMMERCIAL	5 5 5	TWO TO FOUR YEARS
		196.263-018	AIRPLANE PILOT, PHOTOGRAMMETRY	5 4 4	TWO TO FOUR YEARS
		196.263-022	CHECK PILOT	5 4 5	FOUR TO TEN YEARS
		196.263-026	CONTROLLER, REMOTELY-PILOTED VEHICL	5 5 4	TWO TO FOUR YEARS
		196.263-030	EXECUTIVE PILOT	5 4 5	TWO TO FOUR YEARS
		196.263-034	FACILITIES-FLIGHT-CHECK PILOT	5 5 4	FOUR TO TEN YEARS
		196.263-038	HELICOPTER PILOT	5 4 4	TWO TO FOUR YEARS
		196.263-042	TEST PILOT	5 4 4	FOUR TO TEN YEARS
49.0107	AIRPLANE PILOTING (PRIVATE)	621.261-018	FLIGHT ENGINEER	4 4 4	TWO TO FOUR YEARS
		*196.167-010	CHIEF PILOT	5 4 5	OVER 10 YEARS
		*196.167-014	NAVIGATOR	5 5 4	ONE TO TWO YEARS
		*196.223-010	INSTRUCTOR, FLYING 1	5 4 5	TWO TO FOUR YEARS
		*196.223-014	INSTRUCTOR, PILOT	5 4 5	FOUR TO TEN YEARS
		*196.263-010	AIRPLANE PILOT	5 4 5	ONE TO TWO YEARS
		*196.263-022	CHECK PILOT	5 4 5	FOUR TO TEN YEARS

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OCCUPATION: 8280

TRANSPORTATION INSPECTORS

These workers inspect or observe equipment, products, or procedures used to transport people or materials. They look for defects or conditions which might cause unsafe conditions. Some inspect railroad tracks and equipment. Some inspect refinery tank cars or oil-dispensing equipment. Some inspect new cars before they are shipped. These workers may use handtools, electronic testing devices, or other equipment. They may operate and/or repair equipment. They write reports that describe their findings.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	910.263-010	RAIL-FLAW-DETECTOR OPERATOR	4 3 3	ONE TO TWO YEARS
		910.367-030	WAY INSPECTOR	3 2 3	SIX TO 12 MONTHS
		910.387-010	PERISHABLE-FRUIT INSPECTOR	3 2 3	SIX TO 12 MONTHS
		910.667-010	CAR INSPECTOR	3 2 3	THREE TO SIX MONTHS
		914.362-014	CONSTRUCTION-AND-MAINTENANCE INSPEC	3 3 3	SIX TO 12 MONTHS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	910.384-010	TANK-CAR INSPECTOR	3 2 3	THREE TO SIX MONTHS
		910.387-014	RAILROAD-CAR INSPECTOR	3 2 3	SIX TO 12 MONTHS
47.0604	AUTOMOTIVE MECHANICS	919.363-010	NEW-CAR INSPECTOR	3 2 2	THREE TO SIX MONTHS
47.0605	DIESEL ENGINE MECHANICS	919.687-018	SAFETY INSPECTOR, TRUCK	3 2 2	THREE TO SIX MONTHS
49.0203	MATERIAL HANDLING	910.667-018	LOADING INSPECTOR	3 2 3	THREE TO SIX MONTHS
		910.667-022	PERISHABLE-FREIGHT INSPECTOR	3 2 3	30 TO 90 DAYS

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OCCUPATION: 8300

MATERIAL MOVING OCCUPATIONS, EXCEPT TRANSPORTATION

These workers move heavy material at a work area or site. They may move rocks, trees, and earth at a construction site or use cranes to position materials. They may excavate or dredge at mining sites. Others may move cargo in shipyards or use industrial trucks to move materials in an industrial plant. Some tend conveyor belts or pipelines that move equipment, logs, machines, boats, and people at a site.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8310

MATERIAL MOVING EQUIPMENT OPERATORS

These workers operate equipment that moves materials at construction and mining sites, shipyards, and industrial and manufacturing plants. For example, operating engineers use cranes, bulldozers, and paving machines. Longshore equipment operators move cargo into ship holds and to docks. Crane and tower operators may position objects at construction sites while excavating machine operators use scoops and shovels in dredging or mining operations.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I. TRAINING TIME

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8312

OPERATING ENGINEERS

OPERATING ENGINEERS control machinery used to dig and grade earth, put up structures, and move materials. This machinery includes power cranes, bulldozers, trench diggers, paving machines, and many other types of construction equipment. Their work duties depend upon the machinery they operate. Heavy machines, such as large cranes, are usually difficult to operate. Light equipment, such as air compressors, are the easiest to operate and require less skill.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
49.0202	CONSTRUCTION EQUIPMENT OPERATION	859.683-010	OPERATING ENGINEER	4 2 2	ONE TO TWO YEARS
		859.683-014	OPERATING-ENGINEER APPRENTICE	4 2 2	ONE TO TWO YEARS
49.0204	MINING EQUIPMENT OPERATION	859.683-010	OPERATING ENGINEER	4 2 2	ONE TO TWO YEARS
		859.683-014	OPERATING-ENGINEER APPRENTICE	4 2 2	ONE TO TWO YEARS

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OCCUPATION: 8313

LONGSHORE EQUIPMENT OPERATORS

These workers operate power winches, cranes, lift trucks, and other equipment to move cargo into or from a ship's hold and from place to place on a dock. They use cranes or winches to load and unload heavy cargo such as cars, crates, and steel beams. They control machines that release grain into hatches, and hook hose lines to tanks to load and unload liquid cargo. They drive lift trucks along the dock or aboard ship to move lumber, machinery, and crated products. They also may lash and shore cargo aboard ships.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
49.0203	MATERIAL HANDLING	911.663-014	STEVEDORE 1	3 2 2 SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8314

HOIST AND WINCH OPERATORS

These workers operate hoists or winches to lift and move loads. They work in a variety of settings and may move equipment, people, logs, boats, or materials. They move levers and press pedals to control the direction, speed, and braking of the equipment and to raise and lower loads. They may listen for signals or watch dials to determine how to position and move the equipment. They also inspect, oil, and grease their equipment and may connect powerlines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	921.683-010	BOAT-HOIST OPERATOR	3 1 1	30 TO 90 DAYS
03.0405	LOGGING	921.663-066	YARDING ENGINEER	3 1 2	ONE TO TWO YEARS
		921.683-054	JAMMER OPERATOR	2 1 1	30 TO 90 DAYS
		921.683-058	LOG LOADER	3 1 2	THREE TO SIX MONTHS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	930.382-030	WELL PULLER	3 2 2	SIX TO 12 MONTHS
		930.683-018	DERRICK WORKER, WELL SERVICE	2 1 1	30 TO 90 DAYS
		932.363-010	HOIST OPERATOR	3 2 2	SIX TO 12 MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	869.683-014	RIGGER	3 1 2	THREE TO SIX MONTHS
		921.662-022	MARINE RAILWAY OPERATOR	3 2 2	THREE TO SIX MONTHS
		921.663-026	HOIST OPERATOR	3 1 2	THREE TO SIX MONTHS
		921.663-030	HOISTING ENGINEER	3 1 1	THREE TO SIX MONTHS
		921.663-050	SCRAPER-LOADER OPERATOR	3 1 2	THREE TO SIX MONTHS
		921.683-086	YARD WORKER	2 1 1	THREE TO SIX MONTHS
49.0203	MATERIAL HANDLING	806.384-022	ROCKET-TEST-FIRE WORKER	3 1 1	SIX TO 12 MONTHS
		911.687-018	COAL TRIMMER	2 1 1	30 TO 90 DAYS
		921.563-010	COKE LOADER	3 2 2	SIX TO 12 MONTHS
		921.682-022	TRANSFER CONTROLLER	2 1 1	30 TO 90 DAYS
		921.683-030	CUPOLA HOIST OPERATOR	3 1 2	THREE TO SIX MONTHS
		921.683-046	HYDRAULIC-BOOM OPERATOR	2 1 1	30 TO 90 DAYS
		921.683-082	WINCH DRIVER	3 1 2	THREE TO SIX MONTHS
		921.685-010	BOAT LOADER 2	2 1 1	30 TO 90 DAYS
		921.685-042	ELECTRIC-FORK OPERATOR	1 1 1	UP TO 30 DAYS
49.0204	MINING EQUIPMENT OPERATION	921.663-026	HOIST OPERATOR	3 1 2	THREE TO SIX MONTHS
		921.663-030	HOISTING ENGINEER	3 1 1	THREE TO SIX MONTHS
		921.663-050	SCRAPER-LOADER OPERATOR	3 1 2	THREE TO SIX MONTHS
49.0302	BARGE AND BOAT OPERATIONS	911.687-018	COAL TRIMMER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 8315

CRANE AND TOWER OPERATORS

These workers operate cranes, or tower and cable equipment to lift, move, and position objects. They move pedals and levers to control the speed and action of the crane. They inspect the crane and related equipment to make sure they are in good working condition. They also check loads to make sure they are not too heavy for the crane and that they are secure. They may operate a crane mounted on rails, crawler treads, or a bridge or boat. They may clean and make minor repairs to the equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	921.663-014	CHERRY-PICKER OPERATOR	2 1 1	30 TO 90 DAYS
03.0403	FOREST PRODUCTS UTILIZATION	921.683-066	SORTING-GRAPPLE OPERATOR	3 1 2	ONE TO TWO YEARS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	921.663-010	BRIDGE-OR-GANTRY-CRANE OPERATOR	3 1 2	SIX TO 12 MONTHS
		921.663-038	LOCOMOTIVE-CRANE OPERATOR	3 1 2	SIX TO 12 MONTHS
		921.663-042	MONORAIL CRANE OPERATOR	2 1 1	30 TO 90 DAYS
		921.663-054	TOWER-CRANE OPERATOR	3 1 2	SIX TO 12 MONTHS
		921.663-058	TRACTOR-CRANE OPERATOR	3 1 1	THREE TO SIX MONTHS
49.0203	MATERIAL HANDLING	921.663-062	TRUCK-CRANE OPERATOR	3 1 1	SIX TO 12 MONTHS
		921.663-022	DERRICK OPERATOR	3 1 1	THREE TO SIX MONTHS
		921.663-070	TRUCK LOADER, OVERHEAD CRANE	2 1 2	THREE TO SIX MONTHS
		921.683-018	CANTILEVER-CRANE OPERATOR	3 2 2	SIX TO 12 MONTHS
		921.683-034	DERRICK-BOAT OPERATOR	3 1 2	SIX TO 12 MONTHS
		921.683-066	SORTING-GRAPPLE OPERATOR	3 1 2	ONE TO TWO YEARS
		921.683-074	TOWER-LOADER OPERATOR	3 2 3	SIX TO 12 MONTHS

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OCCUPATION: 8316

EXCAVATING AND LOADING MACHINE OPERATORS

These workers operate machines equipped with scoops, shovels, buckets, or other devices to dig out, dredge, and load ore and other loose materials. They work at construction sites, mining camps, and similar places. They start and stop the machines, and move levers and pedals to control the equipment. They may drive the machine to the worksite. They oil and grease the machinery and may perform simple repairs. Some read blueprints to determine where to dig.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.663-010	DREDGE OPERATOR	3 2 2	SIX TO 12 MONTHS
		850.683-018	DRAGLINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		850.683-026	MUCKING-MACHINE OPERATOR	3 1 1	30 TO 90 DAYS
		850.683-030	POWER-SHOVEL OPERATOR	3 1 1	SIX TO 12 MONTHS
		850.683-042	TOWER-EXCAVATOR OPERATOR	3 1 1	SIX TO 12 MONTHS
		851.663-010	SEPTIC-TANK INSTALLER	3 2 2	THREE TO SIX MONTHS
49.0204	MINING EQUIPMENT OPERATION	850.663-026	STRIPPING-SHOVEL OPERATOR	3 1 1	SIX TO 12 MONTHS
		850.683-018	DRAGLINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		850.683-030	POWER-SHOVEL OPERATOR	3 1 1	SIX TO 12 MONTHS
		930.683-022	HARVESTER OPERATOR	3 1 1	THREE TO SIX MONTHS
		932.683-014	LOADING-MACHINE OPERATOR	3 2 2	SIX TO 12 MONTHS
		932.683-018	MECHANICAL-SHOVEL OPERATOR	3 2 2	SIX TO 12 MONTHS
		932.685-010	AERIAL-TRAM OPERATOR	2 1 1	30 TO 90 DAYS
49.0302	BARGE AND BOAT OPERATIONS	850.663-010	DREDGE OPERATOR	3 2 2	SIX TO 12 MONTHS

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OCCUPATION: 8317

GRADER, DOZER, SCRAPER OPERATORS

These workers operate machines used to remove, spread, level, and grade earth. They may operate tractor-drawn, self-propelled, or mounted machines. They connect blades or other attachments to the machines and move levers to control the height and angle of the machine blade. They may push trees and rocks from land areas or haul and move dirt at building sites. They may scoop fallen rock from ditches beside a railroad track or spread and compact waste at a landfill site.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
01.0204	AGRICULTURAL POWER MACHINERY	850.683-010	BULLDOZER OPERATOR 1	3 1 2 SIX TO 12 MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	850.663-014	ELEVATING-GRADER OPERATOR	3 1 1 ONE TO TWO YEARS
		850.663-022	MOTOR-GRADER OPERATOR	3 1 1 SIX TO 12 MONTHS
		850.683-010	BULLDOZER OPERATOR 1	3 1 2 SIX TO 12 MONTHS
		850.683-014	DITCHER OPERATOR	3 1 1 THREE TO SIX MONTHS
		850.683-022	FORM-GRADER OPERATOR	3 2 1 THREE TO SIX MONTHS
		850.683-038	SCRAPER OPERATOR	3 1 2 SIX TO 12 MONTHS
		850.683-046	UTILITY-TRACTOR OPERATOR	3 1 1 THREE TO SIX MONTHS
		853.683-014	HEATER-PLANER OPERATOR	3 1 1 30 TO 90 DAYS
		955.463-010	SANITARY LANDFILL OPERATOR	2 1 1 SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	850.683-010	BULLDOZER OPERATOR 1	3 1 2 SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

OCCUPATION: 8318

INDUSTRIAL TRUCK AND TRACTOR EQUIPMENT OPERATORS

These people move materials using industrial trucks or tractors equipped with lifts, platforms, trailer hitches or other attachments. Some drive electric cars that pull dump cars filled with materials. They operate these vehicles by starting the engine, shifting gears, pressing pedals, and turning the steering wheel. They may also adjust controls which move the attachments. They move materials from place to place in factories, plants, or storage yards. Many also do other tasks, such as loading, unloading, and weighing materials.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0060	NO CIP ASSIGNED	929.583-010	YARD WORKER	3	2	1	30 TO 90 DAYS
01.0204	AGRICULTURAL POWER MACHINERY	921.683-050	INDUSTRIAL-TRUCK OPERATOR	2	1	1	30 TO 90 DAYS
03.0405	LOGGING	929.683-010	LOGGING-TRACTOR OPERATOR	3	1	1	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	519.663-014	HOT-CAR OPERATOR	2	1	2	30 TO 90 DAYS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	921.683-042	FRONT-END LOADER OPERATOR	2	1	1	30 TO 90 DAYS
		921.683-050	INDUSTRIAL-TRUCK OPERATOR	2	1	1	30 TO 90 DAYS
		921.683-070	STRADDLE-TRUCK OPERATOR	2	1	1	30 TO 90 DAYS
		929.683-010	LOGGING-TRACTOR OPERATOR	3	1	1	THREE TO SIX MONTHS
		929.683-014	TRACTOR OPERATOR	3	1	1	30 TO 90 DAYS
49.0203	MATERIAL HANDLING	519.663-014	HOT-CAR OPERATOR	2	1	2	30 TO 90 DAYS
		921.583-010	TRANSFER-CAR OPERATOR, DRIER	2	1	1	UP TO 30 DAYS
		921.683-042	FRONT-END LOADER OPERATOR	2	1	1	30 TO 90 DAYS
		921.683-050	INDUSTRIAL-TRUCK OPERATOR	2	1	1	30 TO 90 DAYS
		921.683-070	STRADDLE-TRUCK OPERATOR	2	1	1	30 TO 90 DAYS
49.0204	MINING EQUIPMENT OPERATION	519.683-014	LARRY OPERATOR	2	1	2	30 TO 90 DAYS

* HIGHER EDUCATION TRAINING PROGRAM; DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8319

MATERIAL MOVING EQUIPMENT OPERATORS, MISCELLANEOUS

These workers operate or tend conveyors, pumps, pipelines, and other equipment used to move materials. They move items such as raw materials, tools, and equipment at plants, docks, mines, oil fields, or similar places. They turn knobs, wheels, valves, or other controls to adjust and control the equipment. They may weigh materials and load them into hoppers or onto conveyors. They may clear machine jams, make minor repairs to equipment, and keep work records.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	529.682-030	SIL0 OPERATOR	3 2 2	THREE TO SIX MONTHS
		612.683-010	MANIPULATOR OPERATOR	2 2 2	SIX TO 12 MONTHS
		669.685-090	TIPPLE TENDER	2 2 2	UP TO 30 DAYS
		914.685-010	FISH BAILER	1 1 1	UP TO 30 DAYS
		921.662-014	CHARGE-MACHINE OPERATOR	3 2 3	SIX TO 12 MONTHS
		921.663-034	IRRADIATED-FUEL HANDLER	3 1 1	SIX TO 12 MONTHS
		921.685-070	UNSCRAMBLER	1 1 1	UP TO 30 DAYS
		922.665-010	FLUMER 1	2 1 1	30 TO 90 DAYS
		955.383-010	WASTE-DISPOSAL ATTENDANT	3 2 2	SIX TO 12 MONTHS
01.0206	SOIL AND WATER MECHANICAL PRACTICES	954.362-010	DITCH RIDER	4 3 3	THREE TO SIX MONTHS
01.0402	FOOD PRODUCTS	921.685-046	FRUIT DISTRIBUTOR	2 1 1	UP TO 30 DAYS
03.0403	FOREST PRODUCTS UTILIZATION	921.685-014	BULL-CHAIN OPERATOR	2 1 1	UP TO 30 DAYS
		921.685-062	STACKER TENDER	2 1 1	30 TO 90 DAYS
15.0903	PETROLEUM TECHNOLOGY	914.382-014	PUMPER-GAGER	4 3 3	TWO TO FOUR YEARS
		914.382-018	PUMPER-GAGER APPRENTICE	4 3 3	TWO TO FOUR YEARS
20.0402	BAKING	524.565-010	TROLLEY OPERATOR	1 1 1	UP TO 30 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	914.382-010	OIL PUMPER	3 3 3	ONE TO TWO YEARS
		914.382-014	PUMPER-GAGER	4 3 3	TWO TO FOUR YEARS
		914.382-018	PUMPER-GAGER APPRENTICE	4 3 3	TWO TO FOUR YEARS
		914.382-022	PUMPER, HEAD	3 3 3	TWO TO FOUR YEARS
		914.682-010	PUMPER	3 2 3	SIX TO 12 MONTHS
		939.462-010	OIL-WELL-SERVICE OPERATOR	4 3 3	ONE TO TWO YEARS
		939.684-018	OIL-WELL-SERVICE-OPERATOR HELPER	3 2 2	SIX TO 12 MONTHS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	953.684-010	GAS-PUMPING-STATION HELPER	2 1 2	THREE TO SIX MONTHS
47.0504	PUMPING PLANTS	914.362-018	STATION ENGINEER, MAIN LINE	3 2 3	TWO TO FOUR YEARS
		914.382-010	OIL PUMPER	3 3 3	ONE TO TWO YEARS

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OCCUPATION: 8319 MISC MATERIAL MOVING EQUIPMENT OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-			TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M	L	
		914.382-014	PUMPER-GAGER	4	3	3	TWO TO FOUR YEARS
		914.382-018	PUMPER-GAGER APPRENTICE	4	3	3	TWO TO FOUR YEARS
		914.382-022	PUMPER, HEAD	3	3	3	TWO TO FOUR YEARS
		914.585-010	GAS-TRANSFER OPERATOR	2	2	2	UP TO 30 DAYS
		914.665-010	PIGMENT PUMPER	2	1	1	THREE TO SIX MONTHS
		914.665-014	PUMPER, BREWERY	3	2	2	30 TO 90 DAYS
		914.667-010	LOADER 1	3	2	2	SIX TO 12 MONTHS
		914.682-010	PUMPER	3	2	3	SIX TO 12 MONTHS
		950.362-010	ENGINEER, EXHAUSTER	3	3	3	TWO TO FOUR YEARS
		950.382-014	GAS-COMPRESSOR OPERATOR	4	3	3	TWO TO FOUR YEARS
		953.382-010	GAS-PUMPING-STATION OPERATOR	3	2	3	SIX TO 12 MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	921.663-046	PNEUMATIC-HOIST OPERATOR	2	1	1	30 TO 90 DAYS
49.0203	MATERIAL HANDLING	521.685-278	ROUTING-EQUIPMENT TENDER	2	2	1	30 TO 90 DAYS
		521.685-366	TIPPLE TENDER	1	1	1	UP TO 30 DAYS
		524.565-010	TROLLEY OPERATOR	1	1	1	UP TO 30 DAYS
		529.685-102	DUMPING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		569.683-010	KILN-TRANSFER OPERATOR	2	1	1	30 TO 90 DAYS
		569.685-066	STACKER, MACHINE	2	1	1	UP TO 30 DAYS
		575.683-010	BUCKET OPERATOR	2	1	1	30 TO 90 DAYS
		579.685-050	SILo TENDER	2	2	1	30 TO 90 DAYS
		692.682-054	STACKING-MACHINE OPERATOR 1	3	2	3	THREE TO SIX MONTHS
		919.664-010	TEAMSTER	2	1	1	30 TO 90 DAYS
		921.382-010	CONVEYOR OPERATOR, PNEUMATIC SYSTEM	3	2	2	THREE TO SIX MONTHS
		921.565-010	CEMENT LOADER	2	1	1	UP TO 30 DAYS
		921.662-010	CAR-DUMPER OPERATOR	3	1	1	THREE TO SIX MONTHS
		921.662-018	CONVEYOR-SYSTEM DISPATCHER	3	1	2	30 TO 90 DAYS
		921.662-026	TIPPLE OPERATOR	2	1	1	30 TO 90 DAYS
		921.663-018	CHIP UNLOADER	2	1	1	30 TO 90 DAYS
		921.664-010	LINE MOVER	3	1	1	30 TO 90 DAYS
		921.665-010	CEMENT-BOAT-AND-BARGE LOADER	2	1	1	UP TO 30 DAYS
		921.682-010	LOADER, MALT HOUSE	2	1	1	30 TO 90 DAYS
		921.682-014	PALLETIZER OPERATOR 1	3	1	1	THREE TO SIX MONTHS
		921.682-018	STACKER-AND-SORTER OPERATOR	2	1	1	30 TO 90 DAYS
		921.683-014	BOOM-CONVEYOR OPERATOR	2	1	1	30 TO 90 DAYS
		921.683-026	CONVEYOR OPERATOR	3	1	2	THREE TO SIX MONTHS
		921.683-062	SKIP OPERATOR	2	2	2	THREE TO SIX MONTHS
		921.683-078	TRANSFER-CAR OPERATOR	2	1	1	UP TO 30 DAYS
		921.685-014	BULL-CHAIN OPERATOR	2	1	1	UP TO 30 DAYS
		921.685-018	CAGER OPERATOR	2	1	1	UP TO 30 DAYS
		921.685-022	CHIP-BIN CONVEYOR TENDER	1	1	1	UP TO 30 DAYS

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OCCUPATION: 8319 MISC MATERIAL MOVING EQUIPMENT OPERATORS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		921.685-026	CONVEYOR TENDER	1 1 1	UP TO 30 DAYS
		921.685-030	COOKER LOADER	1 1 1	UP TO 30 DAYS
		921.685-034	DRIER-TAKE-OFF TENDER	2 1 1	UP TO 30 DAYS
		921.685-038	DUMP OPERATOR	2 1 1	30 TO 90 DAYS
		921.685-050	PRODUCTION-SUPPLY-EQUIPMENT TENDER	3 1 2	THREE TO SIX MONTHS
		921.685-058	SPOUT TENDER	2 1 1	30 TO 90 DAYS
49.0204	MINING EQUIPMENT OPERATION	921.683-022	COAL-EQUIPMENT OPERATOR	3 2 3	THREE TO SIX MONTHS
		932.683-010	CAR DROPPER	2 1 1	30 TO 90 DAYS
		932.683-022	SHUTTLE-CAR OPERATOR	3 2 2	THREE TO SIX MONTHS
		939.485-010	SANDFILL OPERATOR	2 2 1	30 TO 90 DAYS
		939.682-010	MONITOR CAR OPERATOR	3 2 1	ONE TO TWO YEARS
		939.686-010	LOADING-MACHINE-OPERATOR HELPER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 8499

HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS

These workers may carry tools and supplies, do routine tasks, clean equipment, and help other workers. They may help set up machinery, carry materials to and from work areas, sort and package goods, or move freight or stock for storage or shipping. Some help construction workers or do routine construction work. Some help service and repair cars and other vehicles, machinery, or electrical equipment. They may clean tools, equipment, and work areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 8500

SUPERVISORS: HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS

These people supervise workers who load and unload materials, clean equipment and work areas, or do other routine tasks at a work-site. They study work schedules and determine the workers and equipment needed to complete assignments. They assign duties to workers and check their work to see that company standards are met. They handle complaints and help solve difficult work problems. They also keep work records and may hire, train, and fire workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	L TRAINING TIME
00.0000	NO CIP ASSIGNED	891.137-018	SUPERVISOR, TANK CLEANING	4	3	3 TWO TO FOUR YEARS
		910.137-018	CIRCUS-TRAIN SUPERVISOR	4	3	3 ONE TO TWO YEARS
		915.133-010	SUPERVISOR, PARKING LOT	3	2	2 THREE TO SIX MONTHS
06.0705	TRANSPORTATION MANAGEMENT	910.137-026	FREIGHT-LOADING SUPERVISOR	4	3	3 ONE TO TWO YEARS
08.1206	SERVICE STATION RETAILING	915.137-010	CAR-WASH SUPERVISOR	3	2	2 SIX TO 12 MONTHS
20.0604	CUSTODIAL SERVICES	699.137-010	SUPERVISOR, CLEANING	4	2	3 TWO TO FOUR YEARS
		891.137-014	SUPERVISOR, AIRCRAFT CLEANING	4	3	3 TWO TO FOUR YEARS
		910.137-014	CAR-CLEANING SUPERVISOR	3	2	3 ONE TO TWO YEARS
49.0203	MATERIAL HANDLING	910.137-026	FREIGHT-LOADING SUPERVISOR	4	3	3 ONE TO TWO YEARS
49.0306	MARINE MAINTENANCE	899.131-022	UTILITY SUPERVISOR, BOAT AND PLANT	4	3	3 TWO TO FOUR YEARS

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OCCUPATION: 8600

HELPERS

Helpers assist other workers in construction, manufacturing, or industrial occupations. They may move equipment and supplies to work sites, clean tools and work areas, and operate machines and equipment. They do many of the routine tasks of a job, such as holding equipment, sanding wood, or bolting fixtures. HELPERS may perform some or all of the work of the workers they help. They may sort materials, inventory supplies, or maintain and repair equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8610

HELPERS: MACHINE OPERATORS AND TENDERS

These workers help machine operators and tenders in plastic and metalworking industries, woodworking and printing shops, textile mills, or precision production industries. They move materials and tools to and from work areas, help set up and adjust machines. They may tend machines during operation. They may prepare workpieces or position them for processing. They may sort finished products, keep records of machine processes, and clean machinery after use.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 8611

HELPERS: METALWORKING AND PLASTIC WORKING MACHINE OPERATORS AND TENDERS

These people assist workers who operate machines used to shape plastic or metal. They move materials and tools to and from the workplace, help set up machinery, and position workpieces. They may operate controls to pour molten metal into ladles or to lift and position heavy workpieces or machine attachments. They may read machine gauges and keep processing records. They also clean and grease the machine and may measure, weigh, or inspect finished workpieces.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	612.684-010	UTILITY WORKER, FORGE	2 1 1	UP TO 30 DAYS
		612.687-014	HEAVY-FORGER HELPER	2 1 1	30 TO 90 DAYS
		613.687-010	PLUGGER	2 2 2	UP TO 30 DAYS
		614.686-010	DRAW-BENCH-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		619.686-014	HOOP-MAKER HELPER, MACHINE	2 1 1	UP TO 30 DAYS
		691.687-010	PRODUCTION HELPER	1 1 1	SHORT DEMONSTRATION
48.0502	FOUNDRY WORK	509.566-010	MIXER OPERATOR HELPER, HOT METAL	2 2 2	UP TO 30 DAYS
		519.485-014	RECOVERY-OPERATOR HELPER	2 1 2	30 TO 90 DAYS
		519.565-014	TANK-HOUSE-OPERATOR HELPER	2 1 2	30 TO 90 DAYS
48.0504	METAL FABRICATION	619.666-010	FORGE HELPER	2 1 1	UP TO 30 DAYS
		619.686-022	METAL-FABRICATING-SHOP HELPER	2 1 1	UP TO 30 DAYS
		800.687-010	RIVETER HELPER	2 1 1	30 TO 90 DAYS
48.0506	SHEET METAL	619.686-030	STRETCHER-LEVELER-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		619.687-014	MACHINE HELPER	2 1 1	30 TO 90 DAYS

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OCCUPATION: 8614

HELPERS: METAL AND PLASTIC PROCESSING MACHINE OPERATORS AND TENDERS

These people assist workers who operate or tend machines used to work metal and plastic. They move materials and parts to and from the work area and load materials in the machines. They also clean the machines and remove workpieces and machine attachments after work is completed. They may cut, bend, twist, polish, or weld parts, using handtools and power tools. They also may heat metal and hammer it into shapes.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
00.0000	NO CIP ASSIGNED	504.686-010	CHARGER-OPERATOR HELPER	1	1	1	UP TO 30 DAYS
		504.686-018	HARDENER HELPER	1	1	1	UP TO 30 DAYS
		511.667-010	CLARIFIER-OPERATOR HELPER	2	1	1	30 TO 90 DAYS
		514.687-018	CASTING-OPERATOR HELPER	2	1	2	30 TO 90 DAYS
		613.685-014	HEATER HELPER	2	2	2	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	502.686-010	CASTING-MACHINE-OPERATOR HELPER	2	1	1	UP TO 30 DAYS
		502.687-014	BUSHER	2	1	1	UP TO 30 DAYS
		512.666-010	FURNACE HELPER	2	1	1	UP TO 30 DAYS
		512.684-010	SECOND HELPER	2	1	1	30 TO 90 DAYS
		514.667-010	CASTING-WHEEL-OPERATOR HELPER	2	1	1	UP TO 30 DAYS
		514.667-014	PIG-MACHINE-OPERATOR HELPER	2	1	1	30 TO 90 DAYS
		514.667-018	SPOUT WORKER	2	1	1	UP TO 30 DAYS
		518.687-018	MOLD-MAKER HELPER	2	1	1	30 TO 90 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.685-018	HEAT-TREATER HELPER	2	2	2	UP TO 30 DAYS
48.0508	WELDING	727.687-070	LEAD-BURNER HELPER	2	1	2	UP TO 30 DAYS
48.0604	PLASTICS	556.686-010	CAKE-PRESS-OPERATOR HELPER	2	1	1	UP TO 30 DAYS

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OCCUPATION: 8615

HELPERS: WOODWORKING MACHINE OPERATORS AND TENDERS

These people assist workers who operate machines to cut or make things out of wood. They furnish them with materials, tools, and supplies, and clean the work area and equipment. They load wood pieces on and off the machines and hold materials or tools for the workers. They also do other routine tasks, such as tending machines, preparing wood for processing, and replacing machine parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	561.685-010	TREATING-ENGINEER HELPER	2 1 1	UP TO 30 DAYS
		663.686-022	LATHIE SPOTTER	2 1 1	30 TO 90 DAYS
		663.686-030	VENEER-CLIPPER HELPER	1 1 1	UP TO 30 DAYS
		665.686-018	VENEER-JOINTER HELPER	1 1 1	UP TO 30 DAYS
		669.686-026	SLAT-BASKET MAKER HELPER, MACHINE	1 1 1	UP TO 30 DAYS
		764.687-034	BARREL-CHARRER HELPER	2 1 1	UP TO 30 DAYS
03.0405	LOGGING	667.687-010	BUZZSAW-OPERATOR HELPER	1 1 1	SHORT DEMONSTRATION
48.0703	MILLWORK AND CABINET MAKING	664.685-030	SPAR-MACHINE-OPERATOR HELPER	2 2 2	30 TO 90 DAYS
		669.685-010	BARREL-ASSEMBLER HELPER	2 1 2	UP TO 30 DAYS
		669.685-058	FRAME-TABLE-OPERATOR HELPER	2 2 1	UP TO 30 DAYS
		669.686-014	BOX-BLANK-MACHINE-OPERATOR HELPER	2 1 1	UP TO 30 DAYS

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8616

HELPERS: PRINTING MACHINE OPERATORS AND TENDERS

These people assist workers who operate printing machines. They furnish them with materials, tools, and supplies and clean the work area and equipment. They load materials into and off machines and do other routine tasks, such as checking materials for defects, counting or weighing materials, and replacing machine parts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	
CODE TITLE	CODE TITLE	R M L	TRAINING TIME
48.0208 PRINTING PRESS OPERATIONS	651.586-010 PRESS HELPER	2 1 1	UP TO 30 DAYS
	979.684-026 PRINT-SHOP HELPER	2 1 1	30 TO 90 DAYS
48.0209 SILK SCREEN MAKING AND PRINTING	652.686-038 SCREEN-PRINTING-MACHINE-OPERATOR HE	2 1 1	UP TO 30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8617

HELPERS: TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS AND TENDERS

These people assist workers who operate and tend machines used to make, clean, or dye textile products and furnishings. They carry or truck materials, load and unload machines, and sort furnished articles. They may also mix chemicals, dyes, or cleaning solutions and pour them into tanks or containers. They clean machine filters, conveyors, and work areas. They may also scrub, cut, or sew cloth articles and do other tasks to help the machine operators.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I		TRAINING TIME	
CODE	TITLE	CODE	TITLE						
00.0000	NO CIP ASSIGNED	554.686-022	CALENDER-WIND-UP HELPER	1	1	1	UP	TO	30 DAYS
		581.687-018	DRYING-UNIT-FELTING-MACHINE-OPERATO	1	1	1	UP	TO	30 DAYS
		582.686-014	DYE-REFEL-OPERATOR HELPER	2	1	2	UP	TO	30 DAYS
		582.686-022	SKEIN-YARN-DYER HELPER	2	1	1	UP	TO	30 DAYS
		582.686-026	SLASHER-TENDER HELPER	2	1	2	UP	TO	30 DAYS
		584.686-010	YARN-MERCERIZER-OPERATOR HELPER	1	1	1	UP	TO	30 DAYS
		586.686-014	FELTING-MACHINE-OPERATOR HELPER	1	1	1	UP	TO	30 DAYS
		586.686-022	MACHINE HELPER	2	1	1	UP	TO	30 DAYS
		587.686-010	CLOTH-SHRINKING-MACHINE-OPERATOR HE	1	1	1	UP	TO	30 DAYS
		681.685-042	COVERING-MACHINE-OPERATOR HELPER	2	1	2	30	TO	90 DAYS
		681.686-014	BEAMER HELPER	2	1	1	UP	TO	30 DAYS
		683.687-010	DRAWER-IN HELPER, HAND	2	1	1	UP	TO	30 DAYS
		683.687-030	LOOM CHANGEOVER OPERATOR	2	1	1	30	TO	90 DAYS
		685.686-014	KNITTING-MACHINE OPERATOR HELPER	2	1	2	UP	TO	30 DAYS
		686.686-014	RUG-CUTTER HELPER	2	1	2	UP	TO	30 DAYS
		689.686-010	AUTOMATIC-PAD-MAKING-MACHINE OPERAT	2	1	1	UP	TO	30 DAYS
		689.686-034	NEEDLE-PUNCH-MACHINE-OPERATOR HELPE	1	1	1	UP	TO	30 DAYS
		689.686-042	STITCH-BONDING-MACHINE-TENDER HELPE	1	1	1	UP	TO	30 DAYS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	362.686-010	DRY-CLEANER HELPER	2	1	1	UP	TO	30 DAYS
		362.686-014	RUG-CLEANER HELPER	2	1	2	UP	TO	30 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	362.686-010	DRY-CLEANER HELPER	2	1	1	UP	TO	30 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	628.687-014	SHEAR-GRINDER-OPERATOR HELPER	2	1	1	UP	TO	30 DAYS

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OCCUPATION: 8618

HELPERS: MACHINE OPERATORS AND TENDERS, ASSORTED MATERIALS

These people assist workers who operate and tend machines used to make, process, or finish products and materials. They work in a variety of industries and may help one or a group of workers. They carry or truck materials and equipment to and from the work area. They load and unload materials onto and from the machines, and keep the machinery and work area clean. They may measure and mix materials, grease and oil machinery, and keep production or processing records. They may also adjust machine controls, or do other tasks to help with production.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	511.586-010	TOP-PRECIPITATOR-OPERATOR HELPER	2	1 1	UP TO 30 DAYS
		511.685-058	SLIME-PLANT-OPERATOR HELPER	2	1 1	30 TO 90 DAYS
		511.686-010	REAGENT TENDER HELPER	2	1 1	UP TO 30 DAYS
		511.687-014	DUST COLLECTOR-TREATER	2	1 1	30 TO 90 DAYS
		511.687-018	FLOTATION-TENDER HELPER	1	1 1	SHORT DEMONSTRATION
		520.686-018	FEED-MIXER HELPER	1	1 1	UP TO 30 DAYS
		520.686-022	FLOUR-BLENDER HELPER	1	1 1	UP TO 30 DAYS
		520.687-058	SIRUP-MIXER ASSISTANT	1	1 1	UP TO 30 DAYS
		521.686-010	BOLTER HELPER	2	1 1	UP TO 30 DAYS
		521.686-026	CUSTOM-FEED-MILL-OPERATOR HELPER	1	1 1	UP TO 30 DAYS
		521.686-050	PROCESSOR HELPER	1	1 1	UP TO 30 DAYS
		521.686-054	SLICE-PLUG-CUTTER-OPERATOR HELPER	1	1 1	UP TO 30 DAYS
		521.687-034	CHAR-FILTER-OPERATOR HELPER	2	1 1	30 TO 90 DAYS
		521.687-078	LIQUOR-BRIDGE-OPERATOR HELPER	2	1 1	30 TO 90 DAYS
		521.687-082	MILLER HELPER, DISTILLERY	2	1 1	30 TO 90 DAYS
		523.666-010	COCOA-BEAN-ROASTER HELPER	2	2 1	UP TO 30 DAYS
		529.486-010	NUT-PROCESS HELPER	1	1 1	UP TO 30 DAYS
		529.685-146	ICE CREAM FREEZER ASSISTANT	2	1 1	UP TO 30 DAYS
		529.686-026	DAIRY HELPER	2	1 1	UP TO 30 DAYS
		529.686-034	FACTORY HELPER	1	1 1	UP TO 30 DAYS
		529.686-046	GENERAL HELPER	1	1 1	UP TO 30 DAYS
		529.687-078	FILLER-SHREDDER HELPER	1	1 1	UP TO 30 DAYS
		529.687-222	WRAPPING MACHINE HELPER	1	1 1	UP TO 30 DAYS
		530.384-010	MIXER HELPER	2	1 1	UP TO 30 DAYS
		533.686-010	BLOW-PIT HELPER	2	1 1	UP TO 30 DAYS
		533.686-014	WASHER-ENGINEER HELPER	2	1 1	UP TO 30 DAYS
		533.687-010	SCREEN-TENDER HELPER	2	1 1	UP TO 30 DAYS
		534.686-010	PAPER-PROCESSING-MACHINE HELPER	2	1 1	UP TO 30 DAYS
		534.687-014	CREPING-MACHINE-OPERATOR HELPER	2	2 1	UP TO 30 DAYS
		542.665-010	OVEN-HEATER HELPER	2	2 2	30 TO 90 DAYS
		543.664-010	CARBON-FURNACE-OPERATOR HELPER	3	2 2	30 TO 90 DAYS
		549.685-030	TREATER HELPER	2	2 2	THREE TO SIX MONTHS
		549.686-010	BRIQUETTE-MACHINE-OPERATOR HELPER	2	1 1	UP TO 30 DAYS

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OCCUPATION: 8618 HELPERS; MACHINE OPERATORS AND TENDERS, ASSORTED MA (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GED- R M L TRAINING TIME
	549.687-022 MUD-MIXER HELPER	1 1 1 UP TO 30 DAYS
	550.586-010 BLENDER HELPER	2 1 1 UP TO 30 DAYS
	550.587-010 MAKE-UP OPERATOR HELPER	2 1 2 30 TO 90 DAYS
	550.686-018 CRUICHER HELPER	2 1 1 UP TO 30 DAYS
	550.686-026 MIXER HELPER	1 1 1 UP TO 30 DAYS
	550.686-030 MIXING-MACHINE FEEDER	1 1 1 UP TO 30 DAYS
	550.686-038 ROOF-CEMENT-AND-PAINT-MAKER HELPER	1 1 1 UP TO 30 DAYS
	550.687-018 DYE-WEIGHER HELPER	2 1 1 UP TO 30 DAYS
	551.686-014 EXTRACTOR LOADER AND UNLOADER	2 1 1 UP TO 30 DAYS
	551.687-026 NAPHTHALENE-OPERATOR HELPER	1 1 1 UP TO 30 DAYS
	552.687-010 DISTILLATION-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	553.685-058 DRIER-OPERATOR HELPER	1 1 1 UP TO 30 DAYS
	553.686-014 CD-MIXER HELPER	1 1 1 UP TO 30 DAYS
	553.686-030 DRIER-OPERATOR HELPER	1 1 1 UP TO 30 DAYS
	553.686-042 VARNISH-MAKER HELPER	2 1 1 UP TO 30 DAYS
	553.687-010 DRIER HELPER	2 1 1 UP TO 30 DAYS
	553.687-014 FURNACE HELPER	2 1 1 UP TO 30 DAYS
	554.686-014 CALENDER-LET-OFF HELPER	2 1 1 UP TO 30 DAYS
	554.686-018 CALENDER-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	558.686-010 FURNACE HELPER	1 1 1 UP TO 30 DAYS
	559.686-038 REDUCTION-FURNACE-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	559.687-026 CONTACT-ACID-PLANT-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	570.686-014 ABRASIVE-MIXER HELPER	2 1 1 UP TO 30 DAYS
	573.685-022 KILN-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	573.687-014 DRY-KILN OPERATOR HELPER	2 1 1 30 TO 90 DAYS
	579.687-010 BRAKE-LINING-FINISHER HELPER, ASBES	2 1 1 UP TO 30 DAYS
	590.686-010 COATING-MACHINE-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	599.685-050 IMPREGNATOR-AND-DRIER HELPER	2 1 2 30 TO 90 DAYS
	640.686-014 SLOTTER-OPERATOR HELPER	1 1 1 UP TO 30 DAYS
	641.686-010 BLANKET-WINDER HELPER	2 1 1 UP TO 30 DAYS
	641.686-014 CARTON-FORMING-MACHINE HELPER	2 1 1 UP TO 30 DAYS
	641.686-018 CORRUGATOR-OPERATOR HELPER	2 2 1 UP TO 30 DAYS
	641.686-022 LINER-MACHINE-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	641.686-038 TUBE-MACHINE-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	649.686-010 BAG-MACHINE-OPERATOR HELPER	2 1 1 UP TO 30 DAYS
	649.686-018 CYLINDER-DIE-MACHINE HELPER	2 1 1 UP TO 30 DAYS
	690.686-014 BIAS-MACHINE-OPERATOR HELPER	1 1 1 UP TO 30 DAYS
	690.686-030 CUTTING-MACHINE-TENDER HELPER	2 1 1 UP TO 30 DAYS
	690.686-070 TUBER-MACHINE-OPERATOR HELPER	1 1 1 UP TO 30 DAYS
	699.587-010 SLITTING-MACHINE-OPERATOR HELPER 1	2 1 1 UP TO 30 DAYS
	920.686-010 BANDER-AND-CELLOPHANER HELPER, MACH	2 1 1 UP TO 30 DAYS
20.0406 FOOD SERVICE	529.687-050 COOK HELPER	2 2 2 30 TO 90 DAYS

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OCCUPATION: 8618 HELPERS; MACHINE OPERATORS AND TENDERS, ASSORTED MA (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
46.0406	GLAZING	775.687-018	GLASS-CUTTER HELPER	2 1 2	30 TO 90 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	914.687-018	PUMPER HELPER	2 1 1	UP TO 30 DAYS
47.0504	PUMPING PLANTS	549.685-034	WASH-OIL-PUMP OPERATOR HELPER	2 2 2	30 TO 90 DAYS
		914.687-018	PUMPER HELPER	2 1 1	UP TO 30 DAYS
47.0603	AUTOMOTIVE BODY REPAIR	845.684-014	PAINTER HELPER, AUTOMOTIVE	2 1 1	THREE TO SIX MONTHS
48.0502	FOUNDRY WORK	513.587-010	KILN-OPERATOR HELPER	2 1 1	30 TO 90 DAYS
		513.667-010	CALCINER-OPERATOR HELPER	3 1 1	THREE TO SIX MONTHS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	573.687-026	KILN-BURNER HELPER	2 1 1	30 TO 90 DAYS
		575.686-010	DRY-PRESS-OPERATOR HELPER	1 1 1	UP TO 30 DAYS
48.0604	PLASTICS	558.585-038	POLYMERIZATION HELPER	3 2 2	THREE TO SIX MONTHS
49.0204	MINING EQUIPMENT OPERATION	677.666-010	SPLITTING-MACHINE-OPERATOR HELPER	1 1 1	UP TO 30 DAYS

HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8619

HELPERS: PRECISION PRODUCTION OCCUPATIONS AND SETUP OPERATORS
 These people assist SHOE REPAIRERS, MACHINE SETUP OPERATORS, BAKERS, SIGN PAINTERS, or other workers who do precision production work. They carry or truck tools and materials to and from the work area, hand out supplies, and clean the equipment and work area. They may use handtools to sand, paint, polish, cut, or join products or parts. They may weigh, measure, and mix ingredients and hold articles in place while they are worked on.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	503.686-010	PICKLER HELPER, CONTINUOUS PICKLING	2 1 2	30 TO 90 DAYS
		509.685-010	ALODIZE-MACHINE HELPER	2 2 2	30 TO 90 DAYS
		613.685-026	ROLLING-MILL-OPERATOR HELPER	2 1 1	30 TO 90 DAYS
		640.687-014	SPIRAL-TUBE-WINDER HELPER	2 1 1	UP TO 30 DAYS
		683.685-022	DRAWING-IN-MACHINE-TENDER HELPER	2 1 1	THREE TO SIX MONTHS
		801.687-018	TANK-SETTER HELPER	2 1 1	UP TO 30 DAYS
		805.664-010	BOILERMAKER HELPER 2	2 2 2	SIX TO 12 MONTHS
		952.687-014	SUBSTATION-OPERATOR HELPER	2 1 1	SIX TO 12 MONTHS
17.0103	DENTAL LABORATORY TECHNOLOGY	712.664-010	DENTAL CERAMIST ASSISTANT	3 2 3	ONE TO TWO YEARS
20.0402	BAKING	526.686-010	BAKER HELPER	2 1 1	UP TO 30 DAYS
20.0503	CUSTOM SLIPCOVERING AND UPHOLSTERING	780.687-054	UPHOLSTERER HELPER	2 1 1	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	952.367-014	SWITCHBOARD OPERATOR ASSISTANT	3 3 3	TWO TO FOUR YEARS
		953.584-010	HELPER, LIQUEFACTION-AND-REGASIFICA	3 2 3	SIX TO 12 MONTHS
47.6604	AUTOMOTIVE MECHANICS	620.584-010	SPRING-REPAIRER HELPER, HAND	2 1 2	THREE TO SIX MONTHS
48.0203	COMMERCIAL ART	970.664-010	PAINTER HELPER, SIGN	3 2 3	SIX TO 12 MONTHS
48.0206	LITHOGRAPHY, PHOTOGRAPHY, AND PLATEMAKING	971.687-010	ETCHER HELPER, HAND	2 1 1	UP TO 30 DAYS
		972.664-010	LITHO-MAKE-READY ASSISTANT	3 2 2	ONE TO TWO YEARS
48.0207	PHOTOGRAPHIC LABORATORY AND DARKROOM	979.687-014	PHOTOSTAT-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
48.0208	PRINTING PRESS OPERATIONS	652.687-050	WALLPAPER-PRINTER HELPER	2 1 1	UP TO 30 DAYS
48.0210	PHOTOENGRAVING	*971.687-010	ETCHER HELPER, HAND	2 1 1	UP TO 30 DAYS
48.0303	UPHOLSTERING	780.687-054	UPHOLSTERER HELPER	2 1 1	30 TO 90 DAYS
48.0304	SHOE AND BOOT REPAIR	*365.674-010	SHOE-REPAIRER HELPER	2 2 1	THREE TO SIX MONTHS

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OCCUPATION: 8619 HELPERS; PRECISION PRODUCTION OCCUPATIONS AND SETUP (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
48.0504	METAL FABRICATION	616.687-010	STRANDING-MACHINE-OPERATOR HELPER	2	1 1	UP TO 30 DAYS
		616.687-014	WIRE-WEAVER HELPER	2	1 1	30 TO 90 DAYS
		619.484-010	ORNAMENTAL-METAL-WORKER HELPER	2	1 1	SIX TO 12 MONTHS
		619.684-010	FORMER HELPER, HAND	2	1 1	30 TO 90 DAYS
		801.687-014	FITTER HELPER	2	1 1	30 TO 90 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	575.687-014	FORMING-MACHINE UPKEEP-MECHANIC HEL	3	2 2	30 TO 90 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	700.687-050	MOLD-MAKER HELPER	1	1 1	UP TO 30 DAYS
48.0604	PLASTICS	557.564-010	EXTRUDER-OPERATOR HELPER	2	2 1	UP TO 30 DAYS
		559.664-014	PILOT-CONTROL-OPERATOR HELPER	2	2 2	SIX TO 12 MONTHS
49.0204	MINING EQUIPMENT OPERATION	677.486-010	CIRCULAR-SAWYER HELPER	2	1 1	30 TO 90 DAYS
49.0306	MARINE MAINTENANCE	806.687-050	SHIPFITTER HELPER	2	1 1	UP TO 30 DAYS

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OCCUPATION: 8620

HELPERS: FABRICATORS AND INSPECTORS

These people assist workers who make or inspect products. Some help shape, assemble, or paint products, and others help inspect or test products or equipment. They carry or truck materials and tools to and from the work area, measure and mix materials, and clean the equipment and work area. They may help lift and position equipment and workpieces, and load and unload materials on and from machines and conveyors. They may read meters, inspect finished work, and do other tasks to help with production work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	522.687-030	LEAF-CONDITIONER HELPER	1 1 1	UP TO 30 DAYS
		589.686-038	RUG-INSPECTOR HELPER	1 1 1	UP TO 30 DAYS
		741.687-014	PAINTER HELPER, SPRAY	2 1 1	UP TO 30 DAYS
		764.687-038	BARREL-RAISER HELPER	2 1 1	UP TO 30 DAYS
		776.687-010	BELT-MAKER HELPER	1 1 1	SHORT DEMONSTRATION
		806.667-010	HELPER, METAL HANGING	1 1 1	UP TO 30 DAYS
		806.687-022	HELPER, METAL BONDING	2 1 1	30 TO 90 DAYS
		806.687-038	MOTOR TEST HELPER	2 1 1	UP TO 30 DAYS
01.0203	AGRICULTURAL MECHANICS, CONSTRUCTION AND	819.687-014	WELDER HELPER	2 1 1	UP TO 30 DAYS
46.0503	PLUMBING	953.667-010	GAS-LEAK INSPECTOR HELPER	3 3 3	THREE TO SIX MONTHS
47.0105	INDUSTRIAL ELECTRONICS	729.664-010	TEST-DEPARTMENT HELPER	2 2 2	30 TO 90 DAYS
47.0504	PUMPING PLANTS	953.667-010	GAS-LEAK INSPECTOR HELPER	3 3 3	THREE TO SIX MONTHS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*809.687-014	HELPER, MANUFACTURING	2 1 1	UP TO 30 DAYS
48.0209	SILK SCREEN MAKING AND PRINTING	979.687-022	SCREEN PRINTER HELPER	2 1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	502.664-018	STEEL-POURER HELPER	2 2 2	SIX TO 12 MONTHS
		502.687-010	BLAST-FURNACE-KEEPER HELPER	2 2 2	30 TO 90 DAYS
		502.687-018	LEAD-CASTER HELPER	2 1 1	UP TO 30 DAYS
		519.687-038	STOPPER-MAKER HELPER	2 1 1	UP TO 30 DAYS
48.0508	WELDING	819.666-010	MACHINE HELPER	2 1 2	UP TO 30 DAYS
		819.687-014	WELDER HELPER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 8630

HELPERS: MECHANICS AND REPAIRERS

These workers carry tools and supplies, do routine tasks, and clean equipment and work areas for mechanics and repairers. They may help repair and maintain electrical and electronic equipment, thread pipe, solder, and run tests. They may help repair and maintain vehicles by changing oil, repairing parts, sanding bodies, or repairing upholstery. They may help service industrial machinery, taking it apart, greasing and oiling components, and reassembling it.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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 BY STANDARD OCCUPATIONAL CLASSIFICATION (1980)

OCCUPATION: 8632

HELPERS: VEHICLE AND MOBILE EQUIPMENT MECHANICS AND REPAIRERS

These people assist workers who repair and service cars, trucks, planes, or other vehicles. They may also help repair and adjust engines, pumps, and other power equipment used in construction work. They take machinery apart and may clean, adjust, and replace parts. They inflate tires, and fill gas tanks. They may polish trim, repair upholstery, or sand and paint vehicle bodies. They also hand out tools to workers, hold and position parts and tools while repairs are being made, and do other assigned tasks.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	622.684-014	CAR-REPAIRER HELPER	2 1 2	THREE TO SIX MONTHS
		807.687-014	STREETCAR-REPAIRER HELPER	2 1 1	30 TO 90 DAYS
01.0204	AGRICULTURAL POWER MACHINERY	620.664-014	MAINTENANCE MECHANIC HELPER	3 2 2	SIX TO 12 MONTHS
		620.684-030	TRACTOR-MECHANIC HELPER	2 1 2	THREE TO SIX MONTHS
		625.684-010	DIESEL-MECHANIC HELPER	2 2 2	THREE TO SIX MONTHS
47.0302	HEAVY EQUIPMENT MAINTENANCE AND REPAIR	620.664-010	CONSTRUCTION-EQUIPMENT-MECHANIC HEL	2 1 2	30 TO 90 DAYS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	710.384-018	INSTRUMENT-REPAIRER HELPER	3 2 2	SIX TO 12 MONTHS
47.0603	AUTOMOTIVE BODY REPAIR	807.687-010	AUTOMOBILE-BODY-REPAIRER HELPER	2 1 1	UP TO 30 DAYS
47.0604	AUTOMOTIVE MECHANICS	620.684-014	AUTOMOBILE-MECHANIC HELPER	2 1 2	30 TO 90 DAYS
		825.684-010	ELECTRICIAN HELPER, AUTOMOTIVE	2 2 2	UP TO 30 DAYS
47.0605	DIESEL ENGINE MECHANICS	625.684-010	DIESEL-MECHANIC HELPER	2 2 2	THREE TO SIX MONTHS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*621.684-010	AIRFRAME-AND-POWER-PLANT-MECHANIC H	3 2 2	THREE TO SIX MONTHS
47.0608	AIRCRAFT MECHANICS, POWERPLANT	*621.684-010	AIRFRAME-AND-POWER-PLANT-MECHANIC H	3 2 2	THREE TO SIX MONTHS
48.0504	METAL FABRICATION	806.684-098	ORDNANCE TRUCK INSTALLATION MECHANIC	3 2 1	30 TO 90 DAYS
49.0306	MARINE MAINTENANCE	623.684-010	MOTORBOAT-MECHANIC HELPER	2 1 2	30 TO 90 DAYS

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OCCUPATION: 8633

HELPERS: INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS

These people assist workers who repair and service industrial machinery. They furnish them with tools and supplies and clean the work area and equipment. They help move, level, and install machinery. They also remove parts that need repair, hold materials and tools for the workers, oil machinery, and do other routine tasks. They use handtools, and may operate hoists, jacks, or other devices to remove, position, or take apart machinery units.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M L	
00.0000	NO CIP ASSIGNED	631.364-010	HYDROELECTRIC-MACHINERY-MECHANIC HE	3 2 3	30 TO 90 DAYS
		631.684-010	POWERHOUSE-MECHANIC HELPER	3 2 3	SIX TO 12 MONTHS
01.0204	AGRICULTURAL POWER MACHINERY	630.684-022	PUMP-SERVICER HELPER	2 1 2	SIX TO 12 MONTHS
46.0401	BUILDING AND PROPERTY MAINTENANCE	899.684-022	MAINTENANCE-REPAIRER HELPER, FACTOR	3 1 2	SIX TO 12 MONTHS
47.0108	SMALL APPLIANCE REPAIR	639.684-010	SEWING-MACHINE-REPAIRER HELPER	2 2 2	THREE TO SIX MONTHS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	628.664-010	OVERHAULER HELPER	3 2 2	30 TO 90 DAYS
		630.664-010	REPAIRER HELPER	2 2 2	30 TO 90 DAYS
		630.664-018	SERVICE-MECHANIC HELPER, COMPRESSED	2 1 2	THREFE TO SIX MONTHS
		630.684-022	PUMP-SERVICER HELPER	2 1 2	SIX TO 12 MONTHS
		631.364-010	HYDROELECTRIC-MACHINERY-MECHANIC HE	3 2 3	30 TO 90 DAYS
		631.684-010	POWERHOUSE-MECHANIC HELPER	3 2 3	SIX TO 12 MONTHS
47.0304	MINE EQUIPMENT MAINTENANCE AND REPAIR	630.664-010	REPAIRER HELPER	2 2 2	30 TO 90 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	631.364-010	HYDROELECTRIC-MACHINERY-MECHANIC HE	3 2 3	30 TO 90 DAYS
		631.684-010	POWERHOUSE-MECHANIC HELPER	3 2 3	SIX TO 12 MONTHS
49.0306	MARINE MAINTENANCE	623.687-010	MACHINIST HELPER, OUTSIDE	2 1 2	30 TO 90 DAYS

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OCCUPATION: 8635

HELPERS: ELECTRICAL AND ELECTRONIC EQUIPMENT REPAIRERS

These people assist workers who repair and service electrical and electronic equipment. They take tools, parts, and equipment to and from work areas, position and hold parts while repairs are being made, and clean and oil equipment. They also may do such things as cut and thread pipe, operate hoists, solder metal, install filters, and test equipment. They use handtools, torches, measuring devices, and testing equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
46.0302	ELECTRICIAN	821.564-010	LABORATORY HELPER	2 2 2	30 TO 90 DAYS
		824.664-010	STREET LIGHT-SERVICER HELPER	3 3 2	THREE TO SIX MONTHS
46.0303	LINeworker	822.684-018	SIGNAL MAINTAINER HELPER	2 2 2	30 TO 90 DAYS
		829.667-010	CABLE-SPLICER HELPER	2 2 2	30 TO 90 DAYS
47.0105	INDUSTRIAL ELECTRONICS	721.684-010	ARMATURE-WINDER HELPER, REPAIR	2 1 1	30 TO 90 DAYS
47.0106	MAJOR APPLIANCE REPAIR	637.684-010	GAS-APPLIANCE-SERVICER HELPER	2 2 2	THREE TO SIX MONTHS
47.0107	MOTOR REPAIR	721.684-010	ARMATURE-WINDER HELPER, REPAIR	2 1 1	30 TO 90 DAYS
47.0203	HEATING AND AIR CONDITIONING	637.687-010	AIR-CONDITIONING INSTALLER-SERVICER	2 1 2	30 TO 90 DAYS

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OCCUPATION: 8637

HELPERS: MISCELLANEOUS MECHANICS AND REPAIRERS

These people assist workers who repair and maintain equipment. They perform a variety of tasks. They furnish workers with materials, tools, and supplies. They clean work areas, machines and equipment. They help install and move machines and equipment. They hold materials and tools while repairs are being made. They take equipment apart for repairs, repair or finish broken parts, and grease and oil equipment. They use handtools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
00.0000	NO CIP ASSIGNED	610.684-010	BLACKSMITH HELPER	2	1	1	THREE TO SIX MONTHS
		632.684-010	ORDNANCE-ARTIFICER HELPER	2	2	2	THREE TO SIX MONTHS
		709.687-034	SALVAGER HELPER	2	1	1	THREE TO SIX MONTHS
		710.684-030	INSTRUMENT-TECHNICIAN HELPER	3	2	2	THREE TO SIX MONTHS
		729.684-050	STREET-LIGHT-REPAIRER HELPER	2	2	2	30 TO 90 DAYS
		739.687-094	FIRE-EQUIPMENT-INSPECTOR HELPER	2	2	2	30 TO 90 DAYS
		764.687-050	COOPER HELPER	2	2	2	UP TO 30 DAYS
		825.664-010	ELEVATOR-CONSTRUCTOR HELPER	3	2	2	30 TO 90 DAYS
		825.684-014	ELEVATOR-REPAIRER HELPER	3	2	2	30 TO 90 DAYS
01.0203	AGRICULTURAL MECHANICS, CONSTRUCTION AND	638.484-010	MILLWRIGHT HELPER	2	2	2	30 TO 90 DAYS
03.0405	LOGGING	921.687-026	RIGGER HELPER	2	1	1	30 TO 90 DAYS
47.0109	VENDING AND RECREATIONAL MACHINE REPAIR	829.667-014	PINSETTER-MECHANIC HELPER	2	2	2	UP TO 30 DAYS
47.0202	COOLING AND REFRIGERATION	637.687-014	REFRIGERATION-MECHANIC HELPER	2	1	2	UP TO 30 DAYS
47.0203	HEATING AND AIR CONDITIONING	637.664-010	ENVIRONMENTAL-CONTROL-SYSTEM INSTAL	3	2	2	ONE TO TWO YEARS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	630.684-034	SPRAY-GUN-REPAIRER HELPER	2	1	2	30 TO 90 DAYS
		637.384-010	INDUSTRIAL-GAS-SERVICER HELPER	3	2	2	THREE TO SIX MONTHS
		638.484-010	MILLWRIGHT HELPER	2	2	2	30 TO 90 DAYS
		638.684-018	MAINTENANCE-MECHANIC HELPER	2	1	2	THREE TO SIX MONTHS
47.0401	ELECTROMECHANICAL, HYDRAULIC, AND PNEUMA	637.384-010	INDUSTRIAL-GAS-SERVICER HELPER	3	2	2	THREE TO SIX MONTHS
		710.384-010	GAS-REGULATOR-REPAIRER HELPER	3	2	2	SIX TO 12 MONTHS
		710.684-030	INSTRUMENT-TECHNICIAN HELPER	3	2	2	THREE TO SIX MONTHS
		710.684-034	METER-REPAIRER HELPER	3	1	1	THREE TO SIX MONTHS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	710.684-030	INSTRUMENT-TECHNICIAN HELPER	3	2	2	THREE TO SIX MONTHS
48.0304	SHOE AND BOOT REPAIR	739.684-114	LAST-REPAIRER HELPER	2	1	1	UP TO 30 DAYS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	921.687-026	RIGGER HELPER	2	1	1	30 TO 90 DAYS

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OCCUPATION: 8637 HELPERS; MISCELLANEOUS MECHANICS AND REPAIRERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
49.0306	MARINE MAINTENANCE	806.684-122	RIGGER HELPER	3 1 1 SIX TO 12 MONTHS

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OCCUPATION: 8640

HELPERS: CONSTRUCTION TRADES

These workers carry tools and supplies, do routine tasks, and clean equipment and work areas for other construction workers. They may help brickmasons or hard tile setters by preparing surfaces. They may help electrical workers install or repair power equipment and wiring. They help plumbers, pipefitters, and steamfitters by measuring, cutting, and threading pipe, holding equipment during installation, and bolting fixtures in place.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8641

HELPERS: BRICKMASONS, STONEMASONS, AND HARD TILE SETTERS

These people help workers who lay brick, stone, or tile. They hand them tools and bring them materials and supplies. They also help prepare surfaces to be repaired and keep work areas, tools, and equipment clean. Some workers in this group help reline covers for ingot molds. They do such things as pry and chip old mortar and clay from covers and mix fresh mortar. Others help repair and rebuild firebrick furnaces, ovens, and similar structures. They remove burned and damaged brick, mix mortar, and stack brick.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	709.687-018	H01-TOP-LINER HELPER	1	1	1	30 TO 90 DAYS
		861.687-010	BRICKLAYER HELPER, FIREBRICK AND RE	2	1	1	30 TO 90 DAYS
		861.687-014	PATCHER HELPER	1	1	1	UP TO 30 DAYS

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OCCUPATION: 8642

HELPERS: CARPENTERS AND RELATED WORKERS

These workers help carpenters and other workers install and repair wooden structures. They cut wood to specified sizes, drill bolt holes, and do many other tasks to help build parts of ships or other structures. They also help carpenters by bringing them tools and materials and keeping work areas clean and orderly. Some workers in this group help put up support posts in mines. They do such things as hold timbers and posts while they are sawed and nail together timbers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
46.0201	CARPENTRY	860.664-014	JOINER HELPER	3 2 1	THREE TO SIX MONTHS
		860.664-018	SHIPWRIGHT HELPER	2 1 1	THREE TO SIX MONTHS
		869.687-042	TIMBER-FRAMER HELPER	2 1 1	30 TO 90 DAYS
49.0306	MARINE MAINTENANCE	860.664-014	JOINER HELPER	3 2 1	THREE TO SIX MONTHS
		860.664-018	SHIPWRIGHT HELPER	2 1 1	THREE TO SIX MONTHS

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OCCUPATION: 8643

HELPERS: ELECTRICAL AND POWER TRANSMISSION INSTALLERS

These people help electrical workers install or repair power equipment and wiring. They unload and load tools and equipment, and hand tools to workers as they are needed. They help keep work areas clean and orderly. They may dig ditches and rig scaffolds or hoists. They may remove and replace sections of wiring. They may measure, cut, and thread pipe conduits. They also may put together parts of power equipment. They use many kinds of handtools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
01.0202	AGRICULTURAL ELECTRIFICATION, POWER, AND	829.684-022	ELECTRICIAN HELPER	3 2 2	30 TO 90 DAYS
46.0302	ELECTRICIAN	822.664-010	PROTECTIVE-SIGNAL-INSTALLER HELPER	3 2 2	SIX TO 12 MONTHS
		822.684-014	PROTECTIVE-SIGNAL-REPAIRER HELPER	3 2 2	ONE TO TWO YEARS
		829.684-022	ELECTRICIAN HELPER	3 2 2	30 TO 90 DAYS
		829.684-026	ELECTRICIAN HELPER	2 1 1	30 TO 90 DAYS
46.0303	LINEWORKER	821.667-010	HELPER, ELECTRICAL	2 2 2	30 TO 90 DAYS
		821.684-014	TOWER ERECTOR HELPER	3 2 2	SIX TO 12 MONTHS

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OCCUPATION: 8644

HELPERS: PAINTERS, PAPERHANGERS, AND PLASTERERS

These HELPERS assist workers who paint, plaster, or paper walls and other surfaces. They unload and load materials and tools and hand tools and supplies to workers as they are needed. They keep work areas clean and orderly. They also do such things as strip paint and dirt from surfaces, fill cracks, and smooth surfaces to be finished. They may use sanding and buffing equipment as well as a variety of handtools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
46.0408	PAINTING AND DECORATING	840.687-010	PAINTER HELPER, SHIPYARD	2 2 1 30 TO 90 DAYS

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OCCUPATION: 8645

HELPEPS: PLUMBERS, PIPEFITTERS, AND STEAMFITTERS

People in these jobs assist workers who install and repair plumbing. They unload materials and tools and carry them to work sites. They clean work areas, tools, and equipment. They also hold pipes in place while they are being bent, threaded, or installed. They may bolt fixtures in place and cut or drill holes into which pipes will fit. They may take apart and remove old pipes or fixtures. They may help repair equipment. They use many different handtools to do their work.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
46.0502	PIPEFITTING AND STEAMFITTING	862.684-018	PIPE-FITTER HELPER	3 1 2 SIX TO 12 MONTHS
		862.684-022	PIPE-FITTER HELPER	2 1 2 30 TO 90 DAYS
46.0503	PLUMBING	953.687-010	GAS-METER-INSTALLER HELPER	2 1 2 UP TO 30 DAYS

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OCCUPATION: 8646

HELPERS: SURVEYOR'S

SURVEYOR'S HELPERS work with survey crews to measure land or water areas and collect information for maps and charts. They do much of the physical work involved in surveying. They clean brush and debris from survey lines, and carry tools and equipment from place to place. They cut and mark stakes and drive them into the ground to show grade settings or to mark boundaries. They also measure distances between survey points, and hold and move rods or targets so that survey workers can sight in on them.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	869.567-010	SURVEYOR HELPER	3 1 2 THREE TO SIX MONTHS
49.0308	SAILORS AND DECKHANDS	911.667-018	SOUNDER	3 2 2 UP TO 30 DAYS

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OCCUPATION: 8648

HELPERS: OTHER CONSTRUCTION TRADES

These people assist workers in the construction trades. This includes workers who build and repair roads and buildings, cover floors, finish concrete, pave surfaces, install roofs, and do similar work. They perform a variety of tasks. They furnish workers with materials, tools, and supplies. They clean work areas, machines, and equipment. They hold materials and tools while work is being done. They may help put up and move scaffolds, connect pipes, drill holes, mix concrete, or perform other tasks. They use a variety of handtools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	869.687-034	HOUSE-MOVER HELPER	1 1 1	UP TO 30 DAYS
46.0201	CARPENTRY	869.687-010	AWNING-HANGER HELPER	2 1 1	30 TO 90 DAYS
46.0405	FLOOR COVERING INSTALLATION	864.687-010	CARPET-LAYER HELPER	2 1 2	30 TO 90 DAYS
46.0409	PLASTERING	844.687-010	CEMENT SPRAYER HELPER, NOZZLE	1 1 1	UP TO 30 DAYS
49.0204	MINING EQUIPMENT OPERATION	850.684-014	HORIZONTAL-EARTH-BORING-MACHINE-OPE	2 1 1	UP TO 30 DAYS
		930.687-014	CORF-DRILL-OPERATOR HELPER	2 2 2	UP TO 30 DAYS
49.0304	DEEP WATER DIVING AND LIFE SUPPORT SYSTE	899.664-010	DIVER HELPER	3 1 2	30 TO 90 DAYS

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OCCUPATION: 8650

HELPERS: EXTRACTIVE OCCUPATIONS

These people assist workers who drill oil wells or blast, cut, or move materials to be mined. They unload and load materials and furnish workers with materials, tools, and supplies. They clean the work area, machines, and equipment. They may carry explosive devices, connect fuses or wires to firing devices and charges, and set off explosive charges. They may operate equipment to clean oil or gas wells. They may use handtools and power tools to assemble drilling equipment. They may set up instruments, drive trucks, or repair machinery.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	859.687-010	BLASTER HELPER	2 1 1	30 TO 90 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	930.664-014	CLEAN-OUT-DRILLER HELPER	2 1 1	30 TO 90 DAYS
		930.684-026	ROTARY-DRILLER HELPER	2 1 1	THREE TO SIX MONTHS
		930.687-010	BOTTOM-HOLE-PRESSURE-RECORDING-OPER	2 2 1	30 TO 90 DAYS
		939.364-010	OBSERVER HELPER, SEISMIC PROSPECTIN	2 2 1	THREE TO SIX MONTHS
49.0204	MINING EQUIPMENT OPERATION	939.663-010	OBSERVER HELPER, GRAVITY PROSPECTIN	2 2 1	30 TO 90 DAYS
		930.666-010	DRILLER HELPER	2 2 2	UP TO 30 DAYS
49.0205	TRUCK AND BUS DRIVING	930.667-010	SHALE PLANNER OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		939.663-010	OBSERVER HELPER, GRAVITY PROSPECTIN	2 2 1	30 TO 90 DAYS

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OCCUPATION: 8700

HANDLERS, EQUIPMENT CLEANERS, AND LABORERS

These workers carry tools and supplies, do routine tasks, and clean work areas and equipment for other workers. They may help those who drill for oil or blast rock in mining operations. They may do routine construction work, tearing down buildings, setting up scaffolds, or digging holes. Others collect trash, move ships' cargo into holds or storage areas, bag groceries, or move products off conveyor belts.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8710

CONSTRUCTION LABORERS

CONSTRUCTION LABORERS do much of the routine physical work on all types of construction projects. They also help to tear down buildings and other structures. They do such things as put up scaffolding, set braces to support structures, and clean up work areas. They may paint surfaces, dig holes, mix and spread concrete, and clean work tools. They also help unload materials and equipment and take them to carpenters, masons, and other workers. They do many types of jobs to help construction workers.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M L	
00.0000	NO CIP ASSIGNED	737.687-034	DEMOLITION SPECIALIST	2	1 1	THREE TO SIX MONTHS
		869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
01.0205	AGRICULTURAL STRUCTURES, EQUIPMENT, AND	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
20.0604	CUSTODIAL SERVICES	869.687-018	CLEANER	2	1 1	UP TO 30 DAYS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0103	TILE SETTING	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0201	CARPENTRY	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0401	BUILDING AND PROPERTY MAINTENANCE	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0402	CONCRETE PLACING AND FINISHING	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0404	DRYWALL INSTALLATION	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0405	FLOOR COVERING INSTALLATION	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0407	INSULATION INSTALLATION	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0408	PAINTING AND DECORATING	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0409	PLASTERING	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0410	ROOFING	869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0502	PIPEFITTING AND STEAMFITTING	862.684-014	LABORER, CONSTRUCTION OR LEAK GANG	2	1 1	THREE TO SIX MONTHS
		869.687-026	CONSTRUCTION WORKER 2	2	1 1	UP TO 30 DAYS
46.0503	PLUMBING	862.684-014	LABORER, CONSTRUCTION OR LEAK GANG	2	1 1	THREE TO SIX MONTHS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	869.667-014	SIGNALER	2	1 2	UP TO 30 DAYS

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OCCUPATION: 8710 CONSTRUCTION LABORERS

(CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
49.0204 MINING EQUIPMENT OPERATION	931.667-010 POWDER LOADER	2 2 2 UP TO 30 DAYS

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OCCUPATION: 8720

FREIGHT, STOCK, AND MATERIAL MOVERS, HAND

These workers move materials, freight, or stock by hand or use handtrucks. They may move cargo onto loading docks, into ships' holds, or to storage areas. They may collect trash and operate garbage trucks. Some receive and sort materials and supplies, bag groceries, stock shelves, or move materials to work areas. Some workers feed materials into machines or remove products from manufacturing or packaging machines.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 8722

GARBAGE COLLECTORS

These workers collect trash and garbage from containers along an assigned route in a city or town. They load trash and garbage into a truck to be taken to a dump. They may drive the garbage truck. They also may operate a device on the truck that dumps trash in a bin into the truck body. In some jobs, they may empty trash from the truck at a dump or landfill.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
00.0000	NO CIP ASSIGNED	909.687-010	GARBAGE COLLECTOR	1 1 1 SHORT DEMONSTRATION

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OCCUPATION: 8723

STEVEDORES

STEVEDORES load and unload ships' cargo by hand or by using handtrucks. They move cargo to the wharf and stack it on pallets or boards to be loaded onto ships. They attach slings to the cargo so it can be lifted or lowered, and they guide the loads as they are moved to keep them from swinging. They put cargo that has been unloaded from ships into storage sheds. They also stack loaded cargo in ships' holds and shore (or tie) it down to keep it from shifting during the voyage.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME
49.0203	MATERIAL HANDLING	922.687-090	STEVEDORE 2	2 1 1 UP TO 30 DAYS

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OCCUPATION: 8724

STOCK HANDLERS AND BAGGERS

STOCK HANDLERS receive and sort materials and supplies and prepare them for delivery to work areas or for storage. They unwrap, mark, and lay out materials received, and then sort and stack them according to work orders. They may use handtrucks to deliver materials or equipment to workers. BAGGERS bag groceries in sacks or cartons and carry them to customers' cars. They also collect shopping carts from the parking lot, replace checkout counter supplies, clean store areas, and stack goods on counters.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
00.0000	NO CIP ASSIGNED	922.687-078	PAPER STRIPPER	1 1 1	UP TO 30 DAYS
08.0604	SUPERMARKET MARKETING	920.687-014	BAGGER	2 1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	781.687-038	GOODS LAYER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 8725

MACHINE FEEDERS AND OFFBEARERS

MACHINE FEEDERS and OFFBEARERS feed materials into machines and remove finished products from them. Generally, the machines run automatically or are operated by other workers. The types of materials they load and unload depend on the job, but may include paper, plastic, metal, glass, cloth, food, or wood.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
00.0000	NO CIP ASSIGNED	429.686-010	PRESS FEEDER, BROOMCORN	2	1 1	UP TO	30 DAYS
		500.686-010	LABORER, ELECTROPLATING	2	2 2	UP TO	30 DAYS
		509.666-010	COMPOUND-COATING-MACHINE OFFBEARER	2	1 1	UP TO	30 DAYS
		509.686-014	PASTING-MACHINE OFFBEARER	1	1 1	UP TO	30 DAYS
		509.686-018	SCRAP SORTER	2	1 1	UP TO	30 DAYS
		520.686-010	BALL-MACHINE OPERATOR	1	1 1	UP TO	30 DAYS
		520.686-034	PLUG SHAPER, MACHINE	1	1 1	UP TO	30 DAYS
		521.686-014	CAKE PULLER	1	1 1	UP TO	30 DAYS
		521.686-018	CHICLE-GRINDER FEEDER	2	1 1	UP TO	30 DAYS
		521.686-022	COTTON PULLER	1	1 1	SHORT DEMONSTRATION	
		521.686-030	CUT-IN WORKER	1	1 1	SHORT DEMONSTRATION	
		521.686-034	FISH-MACHINE FEEDER	2	1 1	UP TO	30 DAYS
		521.686-038	FLUMER	1	1 1	SHORT DEMONSTRATION	
		521.686-042	FLUMER 2	1	1 1	SHORT DEMONSTRATION	
		521.686-046	NUT CHOPPER	1	1 1	UP TO	30 DAYS
		522.686-010	CHIP WASHER	1	1 1	UP TO	30 DAYS
		522.686-014	GENERAL HELPER	1	1 1	UP TO	30 DAYS
		529.686-010	BUNDLES HANGER	1	1 1	SHORT DEMONSTRATION	
		529.686-018	CIGARETTE-MAKING-MACHINE-HOPPER FEE	1	1 1	UP TO	30 DAYS
		529.686-038	FEEDER-CATCHER, TOBACCO	1	1 1	UP TO	30 DAYS
		529.686-042	FILLER FEEDER	1	1 1	UP TO	30 DAYS
		529.686-054	LABORER, PIE BAKERY	2	1 1	UP TO	30 DAYS
		529.686-058	LABORER, SHELLFISH PROCESSING	2	1 1	UP TO	30 DAYS
		529.686-062	LONG-GOODS HELPER, MACHINE	2	1 1	UP TO	30 DAYS
		529.686-070	PRODUCTION HELPER	2	1 1	UP TO	30 DAYS
		529.686-074	RACK LOADER 1	1	1 1	UP TO	30 DAYS
		529.686-086	UTILITY WORKER	2	1 1	UP TO	30 DAYS
		529.687-182	SHREDDER-FILLER HOPPER-FEEDER	2	1 1	UP TO	30 DAYS
		530.666-010	RAG-CUTTING-MACHINE FEEDER	2	1 1	UP TO	30 DAYS
		530.686-010	BEATER-AND-PULPER FEEDER	2	1 1	UP TO	30 DAYS
		530.686-014	LOADER, MAGAZINE GRINDER	2	1 1	UP TO	30 DAYS
		530.686-018	WASTE-PAPER-HAMMERMILL OPERATOR	1	1 1	SHORT DEMONSTRATION	
		532.686-010	DICESTER-OPERATOR HELPER	2	2 1	UP TO	30 DAYS
		539.686-010	CLERK, WET MACHINE	2	1 1	UP TO	30 DAYS
		540.686-010	COMPOUNDER HELPER	2	2 2	UP TO	30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M L		
		549.686-014	FLT HANGER	2	2 2	UP TO	30 DAYS
		550.686-010	BATCH TRUCKER	1	1 1	UP TO	30 DAYS
		550.686-014	COMPOUND FILLER	1	1 1	UP TO	30 DAYS
		550.686-022	GLAZING OPERATOR, BLACK POWDER	3	1 1	THREE TO	SIX MONTHS
		550.686-034	MOTTLER-MACHINE FEEDER	2	1 1	UP TO	30 DAYS
		551.666-010	PITCH WORKER	1	1 1	UP TO	30 DAYS
		551.686-010	BEAD PICKER	1	1 1	SHORT	DEMONSTRATION
		551.686-018	HOPPER FEEDER	1	1 1	UP TO	30 DAYS
		552.686-010	EXTRACTOR-OPERATOR HELPER	2	1 1	UP TO	30 DAYS
		553.486-010	CALCINE FURNACE LOADER	1	1 1	UP TO	30 DAYS
		553.686-010	BONE-CHAR OPERATOR	2	1 1	UP TO	30 DAYS
		553.686-018	CURING-PRESS OPERATOR	1	1 1	UP TO	30 DAYS
		553.686-022	DECKHAND	1	1 1	UP TO	30 DAYS
		553.686-026	DRIER OPERATOR	2	1 1	UP TO	30 DAYS
		553.686-034	FRAM FEEDER	1	1 1	UP TO	30 DAYS
		553.686-038	ROTARY-DRIER FEEDER	2	1 1	UP TO	30 DAYS
		554.686-010	CALENDER FEEDER	1	1 1	UP TO	30 DAYS
		555.686-010	BLOCK-BREAKER OPERATOR	2	1 1	UP TO	30 DAYS
		555.686-014	SOAP CHIPPER	1	1 1	UP TO	30 DAYS
		556.686-018	STRIPPER	1	1 1	UP TO	30 DAYS
		556.686-022	SUPPOSITORY-MOLDING-MACHINE OPERATO	1	1 1	UP TO	30 DAYS
		558.666-010	DEVULCANIZER CHARGER	2	1 1	UP TO	30 DAYS
		559.686-010	COMPOUND WORKER	1	1 1	UP TO	30 DAYS
		559.686-018	HOSE-TUBING BACKER	2	1 1	UP TO	30 DAYS
		559.686-022	LABORER	2	1 2	UP TO	30 DAYS
		559.686-030	LABORER, VAT HOUSE	1	1 1	UP TO	30 DAYS
		559.686-042	SLABBER	1	1 1	UP TO	30 DAYS
		562.686-010	STEAM-TUNNEL FEEDER	1	1 1	SHORT	DEMONSTRATION
		563.686-010	STICKER	2	1 1	UP TO	30 DAYS
		563.686-014	VENCER-DRIER FEEDER	1	1 1	SHORT	DEMONSTRATION
		569.686-010	BACK FEEDER, PLYWOOD LAYUP LINE	1	1 1	JP TO	30 DAYS
		569.686-014	CORE LAYER, PLYWOOD LAYUP LINE	2	1 1	UP TO	30 DAYS
		569.686-018	CORK-PRESSING-MACHINE OPERATOR	1	1 1	UP TO	30 DAYS
		569.686-022	GLUING-MACHINE OFFBEARER	2	1 1	UP TO	30 DAYS
		569.686-026	LABORER, HOT-PLATE PLYWOOD PRESS	2	1 1	UP TO	30 DAYS
		569.686-030	PAD-MACHINE OFF-BEARER	1	1 1	SHORT	DEMONSTRATION
		569.686-034	RETORT UNLOADER	1	1 1	UP TO	30 DAYS
		570.686-010	ABRASIVE-GRADER HELPER	1	1 1	UP TO	30 DAYS
		570.686-018	PREPARATION-ROOM WORKER	1	1 1	UP TO	30 DAYS
		572.686-010	CUPOLA CHARGER, INSULATION	2	1 1	30 TO	90 DAYS
		573.686-010	BRAKE-LINING CURER	1	1 1	UP TO	30 DAYS
		573.686-014	FUSING-FURNACE LOADER	2	1 1	UP TO	30 DAYS

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OCCUPATION: 8725 MACHINE FEEDERS AND OFFBEARERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		575.686-014	MOLDER HELPER	1 1 1	UP TO 30 DAYS
		579.686-014	MAT PACKER	2 1 1	UP TO 30 DAYS
		579.686-018	MICA-LAMINATING-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
		579.686-022	MIRROR-MACHINE FEEDER	1 1 1	UP TO 30 DAYS
		581.586-010	HEAT CURER	2 1 1	UP TO 30 DAYS
		581.686-010	BLOWER FEEDER, DYED RAW STOCK	1 1 1	UP TO 30 DAYS
		581.686-018	DRIER ATTENDANT	1 1 1	SHORT DEMONSTRATION
		581.686-022	DRYING-OVEN ATTENDANT	1 1 1	SHORT DEMONSTRATION
		581.686-030	DUST-MILL OPERATOR	1 1 1	SHORT DEMONSTRATION
		581.686-034	FEATHER-DRYING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		581.686-042	WET-COTTON FEEDER	1 1 1	UP TO 30 DAYS
		582.686-010	DYE-HOUSE WORKER	1 1 1	UP TO 30 DAYS
		582.686-018	RAW-STOCK-MACHINE LOADER	1 1 1	UP TO 30 DAYS
		582.686-030	TOP-DYEING-MACHINE LOADER	2 1 1	UP TO 30 DAYS
		582.686-034	TUBE HANDLER	1 1 1	UP TO 30 DAYS
		582.686-038	WARP COILER	2 1 1	UP TO 30 DAYS
		583.686-014	FUSING-MACHINE FEEDER	1 1 1	SHORT DEMONSTRATION
		583.686-018	GLOVE TURNER AND FORMER, AUTOMATIC	1 1 1	UP TO 30 DAYS
		583.686-022	MANGLE-PRESS CATCHER	1 1 1	UP TO 30 DAYS
		583.686-030	PRESS FEEDER	1 1 1	UP TO 30 DAYS
		585.686-010	FEATHER-CUTTING-MACHINE FEEDER	1 1 1	SHORT DEMONSTRATION
		586.686-010	CARROTING-MACHINE OFFBEARER	1 1 1	SHORT DEMONSTRATION
		586.686-018	HAT-FORMING-MACHINE FEEDER	2 1 2	UP TO 30 DAYS
		589.587-010	DYE-STAND LOADER	1 1 1	UP TO 30 DAYS
		589.686-010	BACK TENDER	2 1 2	UP TO 30 DAYS
		589.686-014	CLOTH FEEDER	1 1 1	UP TO 30 DAYS
		589.686-018	FEATHER-CURLING-MACHINE OPERATOR	1 1 1	SHORT DEMONSTRATION
		589.686-030	OPENER 2	1 1 1	UP TO 30 DAYS
		589.686-034	PACKAGE CRIMPER	1 1 1	UP TO 30 DAYS
		589.686-042	SOCK BOARDER	2 1 1	UP TO 30 DAYS
		589.686-046	TAKER-OFF, HEMP FIBER	1 1 1	SHORT DEMONSTRATION
		589.686-050	TOBACCO-CLOTH RECLAIMER	2 1 1	UP TO 30 DAYS
		590.686-014	GUIDER	1 1 1	UP TO 30 DAYS
		590.687-018	RACK LOADER	1 1 1	SHORT DEMONSTRATION
		599.686-010	MILL-OPERATOR HELPER	1 1 1	UP TO 30 DAYS
		599.686-014	SPRAY-UNIT FEEDER	2 1 1	UP TO 30 DAYS
		612.666-010	SPIKE-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
		613.686-010	CATCHER	2 1 1	30 TO 90 DAYS
		614.586-010	WIRE CHARGER	2 2 2	UP TO 30 DAYS
		614.686-014	TFSTER-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		617.686-010	HOOP COILER	1 1 1	UP TO 30 DAYS
		619.686-010	AUTOMATIC STACKER	1 1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
		619.686-018	HOPPER FEEDER	1 1 1	UP TO 30 DAYS
		619.686-026	SPIKE-MACHINE HEATER	2 1 1	UP TO 30 DAYS
		640.686-010	ROTARY-CUTTER FEEDER	2 1 1	UP TO 30 DAYS
		641.686-026	PAPER-BAG-PRESS OPERATOR	1 1 1	UP TO 30 DAYS
		641.686-030	SCORER HELPER	2 1 1	UP TO 30 DAYS
		649.686-022	FINISHING-MACHINE OPERATOR	1 1 1	SHORT DEMONSTRATION
		649.686-026	PLATING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		649.686-030	SLITTER-CREASER-SLOTTER HELPER	2 1 1	UP TO 30 DAYS
		652.686-026	PRINT-LINE FEEDER	1 1 1	SHORT DEMONSTRATION
		652.686-046	WARE SERVER	1 1 1	UP TO 30 DAYS
		662.686-010	END-TOUCHING-MACHINE OPERATOR	1 1 1	SHORT DEMONSTRATION
		663.686-010	BLOCK FEEDER	2 1 1	UP TO 30 DAYS
		663.686-014	BREAK-OFF WORKER	2 1 1	UP TO 30 DAYS
		663.686-018	GREEN-CHAIN OFFBEARER	2 1 1	UP TO 30 DAYS
		663.686-026	SLICING-MACHINE TENDER	1 1 1	SHORT DEMONSTRATION
		665.686-022	VENEER-JOINTER OFFBEARER	2 1 1	UP TO 30 DAYS
		667.686-010	CLOTHESPIN-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		667.686-018	TRIMMER HELPER	2 1 1	UP TO 30 DAYS
		669.686-010	AUTOMATIC-NAILING-MACHINE FEEDER	1 1 1	UP TO 30 DAYS
		669.686-018	CHAIN OFFBEARER	2 1 1	UP TO 30 DAYS
		669.686-022	REED-PRESS FEEDER	2 1 1	UP TO 30 DAYS
		669.686-030	WOODWORKING-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
		669.687-010	CLEAT FEEDER	1 1 1	UP TO 30 DAYS
		673.686-014	BURR GRINDER	1 1 1	SHORT DEMONSTRATION
		677.686-010	SAWYER	2 1 1	UP TO 30 DAYS
		679.686-010	ASBESTOS-SHINGLE SHEARING-MACHINE O	1 1 1	UP TO 30 DAYS
		680.686-010	CAN DOFFER	1 1 1	UP TO 30 DAYS
		680.686-014	FIRST-BREAKER FEEDER	1 1 1	UP TO 30 DAYS
		680.686-018	MACHINE FEEDER, RAW STOCK	1 1 1	UP TO 30 DAYS
		680.686-022	WASTE-MACHINE OFFBEARER	2 1 1	UP TO 30 DAYS
		681.686-010	BEAM RACKER	2 1 1	UP TO 30 DAYS
		681.686-018	SPOOLER OPERATOR, AUTOMATIC	2 1 1	UP TO 30 DAYS
		683.686-010	BATTERY LOADER	1 1 1	UP TO 30 DAYS
		684.686-010	CLIPPER, MACHINE	1 1 1	UP TO 30 DAYS
		685.686-010	FRINGING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		686.686-010	FELT-TIPPING-MACHINE TENDER	1 1 1	SHORT DEMONSTRATION
		689.686-010	CLOTH DOFFER	2 1 2	UP TO 30 DAYS
		689.686-014	BOBBIN-CLEANING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		689.686-018	CUTTING-MACHINE OFFBEARER	2 1 1	UP TO 30 DAYS
		689.686-022	DOFFER	2 1 1	UP TO 30 DAYS
		689.686-030	HAIR-SPINNING-MACHINE OPERATOR	1 1 1	SHORT DEMONSTRATION
		689.686-038	SHUTTLE HAND	2 1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M L TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		689.686-046	THREAD-PULLING-MACHINE ATTENDANT	1	1	1	SHORT DEMONSTRATION
		689.686-054	WASTE CHOPPER	2	1	1	UP TO 30 DAYS
		690.686-010	BEVELING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		690.686-022	COATING-MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		690.686-026	CRIMPER	1	1	1	UP TO 30 DAYS
		690.686-038	INJECTION-MOLDING-MACHINE OFFBEARER	2	1	1	UP TO 30 DAYS
		690.686-042	INJECTION-MOLDING-MACHINE OFFBEARER	1	1	1	UP TO 30 DAYS
		690.686-046	PLASTIC-DESIGN APPLIER	1	1	1	SHORT DEMONSTRATION
		690.686-050	RUBBER-ROLLER GRINDER	1	1	1	SHORT DEMONSTRATION
		690.686-054	SPLITTING-MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		690.686-058	SWEATBAND FLANGER	1	1	1	UP TO 30 DAYS
		691.685-030	UTILITY WORKER, EXTRUSION	2	2	2	30 TO 90 DAYS
		691.686-010	TWISTING-MACHINE OPERATOR	1	1	1	UP TO 30 DAYS
		692.686-010	ASSEMBLY-MACHINE OPERATOR	2	1	1	UP TO 30 DAYS
		692.686-014	BASE REMOVER	1	1	1	UP TO 30 DAYS
		692.686-018	BROOMCORN SEEDER	1	1	1	UP TO 30 DAYS
		692.686-022	BULB FILLER	1	1	1	SHORT DEMONSTRATION
		692.686-026	CARBON ROD INSERTER	1	1	1	UP TO 30 DAYS
		692.686-030	CUTTER	1	1	1	UP TO 30 DAYS
		692.686-034	DESIGN ASSEMBLER	1	1	1	UP TO 30 DAYS
		692.686-038	DYNAMITE-PACKING-MACHINE FEEDER	2	1	1	UP TO 30 DAYS
		692.686-042	GROOVER	1	1	1	UP TO 30 DAYS
		692.686-046	LAMINATED-PLASTIC-TABLETOP-MOLDING	1	1	1	UP TO 30 DAYS
		692.686-050	MOUNTER 1	1	1	1	UP TO 30 DAYS
		692.686-054	NAIL-POLISH-BRUSH-MACHINE FEEDER, A	2	1	1	UP TO 30 DAYS
		692.686-058	NECKER	1	1	1	UP TO 30 DAYS
		692.686-062	STEM SIZER	1	1	1	UP TO 30 DAYS
		692.686-066	THIRD DRY-CELL-ASSEMBLING-MACHINE T	1	1	1	SHORT DEMONSTRATION
		694.686-010	CLIP-LOADING-MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		699.686-010	MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		727.687-010	ACID DUMPER	2	1	1	UP TO 30 DAYS
		749.686-010	SIRIPER, MACHINE	2	1	1	UP TO 30 DAYS
		751.686-010	HOSE CUTTER, MACHINE	2	1	1	UP TO 30 DAYS
		762.686-010	EDGE-BANDING-MACHINE OFFBEARER	1	1	1	UP TO 30 DAYS
		787.686-010	BAG SLWER	2	1	1	UP TO 30 DAYS
		920.586-010	MASKING-MACHINE FEEDER	2	1	1	UP TO 30 DAYS
		920.686-014	COTTON-BALL BAGGER	2	1	1	UP TO 30 DAYS
		920.686-018	FOLDING-MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		920.686-022	ORDER FILLER, LINSEED OIL	2	1	1	UP TO 30 DAYS
		920.686-026	PACKING-FLOOR WORKER	2	1	1	UP TO 30 DAYS
		920.686-030	PACKING-MACHINE CAN FEEDER	2	1	1	UP TO 30 DAYS
		920.686-034	PAD-MACHINE FEEDER	1	1	1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R M I	
		920.686-038	POLY-PACKER AND HEAT-SEALER	2 1 1	UP TO 30 DAYS
		920.686-042	PRESS BUCKER	1 1 1	SHORT DEMONSTRATION
		920.686-046	SPOOLER, SEQUINS	2 1 1	UP TO 30 DAYS
		920.686-050	TRAY FILLER	2 1 1	UP TO 30 DAYS
		921.686-010	CARTON-COUNTER FEEDER	1 1 1	UP TO 30 DAYS
		921.686-014	CONVEYOR FEEDER-OFFBEARER	1 1 1	UP TO 30 DAYS
		921.686-018	LOG-HAUL CHAIN FEEDER	2 1 1	UP TO 30 DAYS
		922.686-010	DUMPER	1 1 1	SHORT DEMONSTRATION
		922.686-014	LOWERATOR OPERATOR	1 1 1	UP TO 30 DAYS
		929.686-018	CRAYON-SORTING-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
		929.686-022	FEED-IN WORKER	1 1 1	UP TO 30 DAYS
03.0403	FOREST PRODUCTS UTILIZATION	665.686-010	POLE-PEELING-MACHINE-OPERATOR HELPER	1 1 1	UP TO 30 DAYS
03.0405	LOGGING	921.686-022	POND WORKER	1 1 1	UP TO 30 DAYS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	361.686-010	WASHING-MACHINE LOADER-AND-PULLER	2 1 1	UP TO 30 DAYS
		363.686-010	FLATWORK FINISHER	2 1 1	UP TO 30 DAYS
		369.686-010	FOLDING-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		581.686-014	DRIER	2 1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL CONSTRUCT	690.686-034	FOLDING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
		690.686-062	SWEATBAND-CUTTING-MACHINE OPERATOR	1 1 1	UP TO 30 DAYS
20.0402	BAKING	520.686-014	DESSERT-CUP-MACHINE FEEDER	1 1 1	UP TO 30 DAYS
		929.686-010	BAKERY WORKER	1 1 1	UP TO 30 DAYS
20.0406	FOOD SERVICE	520.686-030	MOLDING-MACHINE-OPERATOR HELPER	1 1 1	UP TO 30 DAYS
		524.686-010	ENROBING-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
46.0102	BRICKMASONRY, BLOCK, AND STONEMASONRY	673.666-010	BELT SANDER, STONE	2 1 1	UP TO 30 DAYS
		673.686-018	EDGLER-MACHINE HELPER	2 1 1	UP TO 30 DAYS
		676.686-010	STONE-DRILLER HELPER	1 1 1	UP TO 30 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.686-010	HAY SORTER	1 1 1	SHORT DEMONSTRATION
47.0408	WATCH REPAIR	604.686-010	WIRE THREADER	2 1 1	UP TO 30 DAYS
		715.686-010	DESTATICIZER FEEDER	2 1 1	UP TO 30 DAYS
		715.686-014	MACHINE FEEDER	1 1 1	SHORT DEMONSTRATION
48.0202	BOOKBINDING	653.686-010	CASING-IN-LINE FEEDER	1 1 1	UP TO 30 DAYS
		653.686-014	FOLDING-MACHINE FEEDER	1 1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I. TRAINING TIME
		653.686-018	GATHERING-MACHINE FEEDER	1 1 1	UP TO 30 DAYS
		653.686-022	PERFECT-BINDER FEEDER-OFFBEARER	1 1 1	UP TO 30 DAYS
		653.686-026	STITCHING-MACHINE FEEDER-OFFBEARER	1 1 1	UP TO 30 DAYS
48.0208	PRINTING PRESS OPERATIONS	651.686-010	CYLINDER-PRESS FEEDER	2 1 1	30 TO 90 DAYS
		652.586-010	UTILITY WORKER, CLOTH PRINTING	2 1 1	UP TO 30 DAYS
		652.686-010	CLOTH-PRINTER HELPER	2 1 1	UP TO 30 DAYS
		652.686-014	GRAINER, MACHINE	2 1 1	UP TO 30 DAYS
		652.686-018	GREY-CLOTH TENDER, PRINTING	2 1 1	UP TO 30 DAYS
		652.686-030	PRINT-LINE TAILER	1 1 1	SHORT DEMONSTRATION
		652.686-034	RAISED PRINTER	1 1 1	UP TO 30 DAYS
		652.687-038	PRINTER, FLOOR COVERING, ASSISTANT	2 1 1	UP TO 30 DAYS
		659.686-010	JOGGER	2 1 1	UP TO 30 DAYS
		659.686-014	PRINTER-SLOTTER HELPER	2 1 1	UP TO 30 DAYS
48.0209	SILK SCREEN MAKING AND PRINTING	652.686-022	LOADER-UNLOADER, SCREEN-PRINTING MA	2 1 1	UP TO 30 DAYS
		659.687-010	RACKER	1 1 1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	581.686-026	DRYING-RACK CHANGER	2 1 1	UP TO 30 DAYS
		583.686-026	OUTSOLE FLEXER	1 1 1	UP TO 30 DAYS
		690.686-018	CEMENTER, MACHINE APPLICATOR	1 1 1	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	525.686-010	CASING CLEANER	2 1 1	UP TO 30 DAYS
		525.686-014	CONVEYOR LOADER 2	2 1 1	UP TO 30 DAYS
		525.686-018	HEAD-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
		525.686-022	SKINNING-MACHINE FEEDER	2 1 1	UP TO 30 DAYS
		529.686-022	CUTLET MAKER, PORK	1 1 1	UP TO 30 DAYS
		529.686-082	STEAK TENDERIZER, MACHINE	1 1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	509.686-010	LABORER, GENERAL	2 1 1	UP TO 30 DAYS
		512.686-010	CUPOLA CHARGER	2 1 2	UP TO 30 DAYS
		519.686-010	LABORER, GENERAL	2 1 1	UP TO 30 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	504.686-014	FURNACE HELPER	2 2 1	UP TO 30 DAYS
		603.686-010	POLISHING-MACHINE-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		604.666-010	THREADING-MACHINE FEEDER, AUTOMATIC	2 1 1	UP TO 30 DAYS
48.0508	WELDING	819.686-010	MACHINE FEEDER	2 1 1	UP TO 30 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	570.687-010	BATCH MIXER	2 1 1	UP TO 30 DAYS
		573.686-018	GLASS-VIAL-BENDING-CONVEYOR FEEDER	2 1 1	UP TO 30 DAYS
		573.686-022	HACKER	1 1 1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I TRAINING TIME	
CODE	TITLE	CODE	TITLE				
		573.686-026	FEIN PLACER	2	1	1	UP TO 30 DAYS
		574.686-010	SPRAY-MACHINE LOADER	2	1	1	UP TO 30 DAYS
		575.686-018	PIN MAKER	2	1	1	UP TO 30 DAYS
		579.686-026	OFFBEARER, SEWER PIPE	1	1	1	UP TO 30 DAYS
		673.686-010	BEVELING-AND-EDGING-MACHINE-OPERATOR	1	1	1	UP TO 30 DAYS
		673.686-022	EDGING-MACHINE FEEDER	1	1	1	UP TO 30 DAYS
		673.686-026	LAYER	2	1	1	UP TO 30 DAYS
48.0604	PLASTICS	556.686-014	CELL STRIPPER	2	1	1	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	662.686-014	MULTIPLE-DRUM-SANDER HELPER	2	1	2	UP TO 30 DAYS
		665.686-014	STAVE-PLANER TENDER	2	1	1	UP TO 30 DAYS
		667.686-022	TURNING-MACHINE-OPERATOR HELPER	2	1	1	UP TO 30 DAYS
		669.686-034	WOODWORKING-MACHINE OFFBEARER	2	1	1	UP TO 30 DAYS
49.0203	MATERIAL HANDLING	929.686-010	BAKERY WORKER	1	1	1	UP TO 30 DAYS
		951.686-010	FUEL-HOUSE ATTENDANT	2	1	1	UP TO 30 DAYS

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OCCUPATION: 8726

FREIGHT, STOCK, AND MATERIAL MOVERS, N.E.C.

These workers load and unload materials onto and from trucks, railroad cars, containers, machines, and storage areas. They work in a wide variety of industries and settings. Their jobs range from dumping grain or coal into railroad cars to positioning cameras and other equipment for movie productions. Many workers also perform other tasks such as cleaning or sweeping work areas and oiling equipment.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	520.687-010	BLENDER LABORER	1 1 1	SHORT DEMONSTRATION
		520.687-038	GUM PULLER	2 1 1	UP TO 30 DAYS
		523.587-018	FREEZING-ROOM WORKER	2 1 1	UP TO 30 DAYS
		525.687-054	OFFAL ICER, POULTRY	1 1 1	SHORT DEMONSTRATION
		529.687-138	LEAF TIER	1 1 1	SHORT DEMONSTRATION
		542.667-010	WHARE TENDER	1 1 1	UP TO 30 DAYS
		575.687-026	PIPE STRIPPER	1 1 1	UP TO 30 DAYS
		579.687-018	FLOOR ATTENDANT	2 1 1	UP TO 30 DAYS
		677.687-010	LOG ROLLER	2 1 1	UP TO 30 DAYS
		727.687-030	BATTERY STACKER	1 1 1	UP TO 30 DAYS
		910.667-030	TRANSFER-TABLE OPERATOR HELPER	2 1 1	30 TO 90 DAYS
		911.667-010	FERRYBOAT-OPERATOR HELPER	2 2 2	UP TO 30 DAYS
		921.667-026	WHARE WORKER	1 1 1	UP TO 30 DAYS
		921.687-010	CAR-DUMPER-OPERATOR HELPER	2 1 1	UP TO 30 DAYS
		922.687-022	BOLT LOADER	1 1 1	UP TO 30 DAYS
		922.687-026	BULL-GANG WORKER	1 1 1	UP TO 30 DAYS
		922.687-034	CAR PINCHER	1 1 1	SHORT DEMONSTRATION
		922.687-070	LUMBER HANDLER	2 1 1	UP TO 30 DAYS
		922.687-098	TIN STACKER	1 1 1	SHORT DEMONSTRATION
		955.687-014	SNOW SHOVELER	1 1 1	SHORT DEMONSTRATION
		962.664-014	RECORDING STUDIO SET-UP WORKER	3 1 1	THREE TO SIX MONTHS
		962.687-018	FLYER	2 1 1	30 TO 90 DAYS
		962.687-022	GRIP	2 1 2	SIX TO 12 MONTHS
10.0105	SOUND RECORDING TECHNOLOGY	*962.664-014	RECORDING STUDIO SET-UP WORKER	3 1 1	THREE TO SIX MONTHS
46.0402	CONCRETE PLACING AND FINISHING	579.665-014	LABORER, CONCRETE-MIXING PLANT	2 1 1	UP TO 30 DAYS
47.0504	PUMPING PLANTS	914.687-014	LOADER HELPER	2 1 1	30 TO 90 DAYS
47.0607	AIRCRAFT MECHANICS, AIRFRAME	*912.687-010	LINE-SERVICE ATTENDANT	3 2 2	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	525.687-086	SHACKLER	1 1 1	UP TO 30 DAYS
48.0502	FOUNDRY WORK	519.687-014	DUST PULLER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 8726 FREIGHT, STOCK, AND MATERIAL MOVERS, NOT ELSEWHERE (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	I	
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	573.687-030	SETTER HELPER	1	1	1	UP TO 30 DAYS
48.0703	MILLWORK AND CABINET MAKING	669.687-018	LUMBER STRAIGHTENER	2	1	1	UP TO 30 DAYS
49.0202	CONSTRUCTION EQUIPMENT OPERATION	939.667-018	SHORE HAND, DREDGE OR BARGE	2	1	1	THREE TO SIX MONTHS
49.0203	MATERIAL HANDLING	919.687-022	SUPPLIES PACKER	3	2	2	SIX TO 12 MONTHS
		921.667-018	DUMPER	2	1	1	UP TO 30 DAYS
		921.667-022	LABORER, HOISTING	2	1	1	30 TO 90 DAYS
		921.687-018	LOADER	2	1	2	30 TO 90 DAYS
		922.687-050	INSTALLER	2	1	1	UP TO 30 DAYS
		929.687-030	MATERIAL HANDLER	2	1	1	30 TO 90 DAYS
49.0204	MINING EQUIPMENT OPERATION	929.687-034	MUNITIONS HANDLER	2	1	1	UP TO 30 DAYS
		932.667-010	BOTTOMER 1	2	1	1	30 TO 90 DAYS
		939.667-010	CAGER	2	1	2	30 TO 90 DAYS
49.0205	TRUCK AND BUS DRIVING	939.667-018	SHORE HAND, DREDGE OR BARGE	2	1	1	THREE TO SIX MONTHS
		905.687-010	TRUCK-DRIVER HELPER	2	1	1	UP TO 30 DAYS
		905.687-014	VAN-DRIVER HELPER	2	1	1	30 TO 90 DAYS
49.0302	BARGE AND BOAT OPERATIONS	939.667-018	SHORE HAND, DREDGE OR BARGE	2	1	1	THREE TO SIX MONTHS

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OCCUPATION: 8730

GARAGE AND SERVICE STATION RELATED OCCUPATIONS

These workers service cars and other vehicles. They fill gas tanks, wash windshields, change oil, and replace oil filters and fan belts. They may also sell and install batteries, headlights, windshield wiper blades, and other items. Most of these tasks can be done with simple handtools. They may help take inventory of auto parts, set up displays, take payments, and keep business records. Most work in auto service stations, but some service vehicles owned by business or government.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M E TRAINING TIME
00.0000 NO CIP ASSIGNED	915.687-014 GARAGE SERVICER, INDUSTRIAL	2 1 1 30 TO 90 DAYS
08.1206 SERVICE STATION RETAILING	915.467-010 AUTOMOBILE-SERVICE-STATION ATTENDAN	3 2 2 30 TO 90 DAYS
	915.477-010 AUTOMOBILE-SELF-SERVE-SERVICE-STATI	3 2 2 30 TO 90 DAYS
	915.587-010 GAS-AND-OIL SERVICER	2 1 1 UP TO 30 DAYS
47.0302 HEAVY EQUIPMENT MAINTENANCE AND REPAIR	915.687-018 LUBRICATION SERVICER	2 1 1 THREE TO SIX MONTHS

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OCCUPATION: 8740

PARKING LOT ATTENDANTS

These workers help customers park their cars at a parking lot or storage garage. They may park cars for customers or direct them to parking spaces. They tag each car so it can later be found. They also record the time each car enters and leaves the parking area. They often help returning customers find their cars. They also patrol parking areas to prevent thefts, and collect parking fees from customers. Some service cars with gas, oil, and water.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	
CODE	TITLE	CODE	TITLE	R	M L TRAINING TIME
08.0902	MARKETING OF HOTEL/MOTEL SERVICES	915.473-010	PARKING-LOT ATTENDANT	2 1 1	UP TO 30 DAYS
08.0903	MARKETING OF RECREATIONAL SERVICES	915.473-010	PARKING-LOT ATTENDANT	2 1 1	UP TO 30 DAYS
08.1203	AUTOMOTIVE VEHICLES AND ACCESSORIES MARK	915.583-010	LOT ATTENDANT	3 2 3	30 TO 90 DAYS

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OCCUPATION: 8750

VEHICLE WASHERS AND EQUIPMENT CLEANERS

Workers in these jobs clean machinery and equipment. The type of equipment they clean depends upon the job. For example, some clean such items as storage tanks, cabinets, filter screens, or dies. Others clean equipment ranging from vehicles and plant machinery to ovens, furnaces, and pipelines. They use many different types of devices, tools, and materials to clean equipment. These include vacuum cleaners, air hoses, brooms, scrapers, cloths, chemicals, water, brushes, and a variety of handtools.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I		TRAINING TIME	
CODE	TITLE	CODE	TITLE						
00.0000	NO CIP ASSIGNED	511.687-010	BLANKET WASHER	2	1	1	UP	TO	30 DAYS
		521.687-030	CHAR PULLER	2	1	1	UP	TO	30 DAYS
		521.687-054	FILTER-SCREEN CLEANER	2	1	1	UP	TO	30 DAYS
		521.687-114	SHAKER WASHER	2	1	1	UP	TO	30 DAYS
		529.687-014	BIN CLEANER	1	1	1	UP	TO	30 DAYS
		529.687-018	BOX-TRUCK WASHER	1	1	1	SHORT	DEMONSTRATION	
		529.687-054	COOKER CLEANER	1	1	1	UP	TO	30 DAYS
		529.687-062	DIE CLEANER	2	1	2	30	TO	90 DAYS
		529.687-190	STONE CLEANER	2	1	1	UP	TO	30 DAYS
		529.687-194	SUCTION-PLATE-CARRIER CLEANER	2	1	1	UP	TO	30 DAYS
		529.687-206	TROLLEY CLEANER	1	1	1	UP	TO	30 DAYS
		529.687-210	WASHER	2	1	1	UP	TO	30 DAYS
		529.687-214	WASHROOM CLEANER	1	1	1	UP	TO	30 DAYS
		559.684-022	TANK CLEANER	2	1	1	30	TO	90 DAYS
		559.687-018	CASTING-MACHINE-SERVICE OPERATOR	2	1	1	30	TO	90 DAYS
		559.687-022	HEEL CLEANER	2	1	1	UP	TO	30 DAYS
		559.687-038	FILTER CLEANER	2	1	1	UP	TO	30 DAYS
		559.687-042	FILTER WASHER	2	1	1	UP	TO	30 DAYS
		559.687-062	TANK CLEANER	2	1	1	UP	TO	30 DAYS
		569.687-018	SCREEN CLEANER	1	1	1	UP	TO	30 DAYS
		573.687-018	KIPN CLEANER	2	1	1	UP	TO	30 DAYS
		599.684-010	EQUIPMENT CLEANER	2	1	2	UP	TO	30 DAYS
		599.687-022	NET WASHER	1	1	1	UP	TO	30 DAYS
		680.687-014	ROLLER CLEANER	1	1	1	UP	TO	30 DAYS
		683.687-026	LENGO CLEANER	2	1	1	UP	TO	30 DAYS
		699.687-010	HARNES CLEANER	1	1	1	UP	TO	30 DAYS
		700.687-030	CUTCH CLEANER	2	1	1	UP	TO	30 DAYS
		700.687-046	MOLD SHEET CLEANER	1	1	1	UP	TO	30 DAYS
		704.687-010	CLEANER	1	1	1	UP	TO	30 DAYS
		739.687-062	CLEANER, SIGNS	2	1	1	UP	TO	30 DAYS
		788.687-082	LAST CLEANER	1	1	1	SHORT	DEMONSTRATION	
		845.684-010	CAR SCRUBBER	2	1	1	30	TO	90 DAYS
		891.687-022	TANK CLEANER	2	1	1	UP	TO	30 DAYS
		891.687-026	TANK PROCESSOR	2	1	1	UP	TO	30 DAYS

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8750 VEHICLE WASHERS AND EQUIPMENT CLEANERS (CONTINUED)

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M I	
	891.687-030 TUBE CLEANER	2 1 1	UP TO 30 DAYS
	910.687-014 CAR COOPER	2 1 1	UP TO 30 DAYS
	910.687-022 FREIGHT-CAR CLEANER, DELTA SYSTEM	2 1 1	UP TO 30 DAYS
	915.687-022 PORTER, USED-CAR LOT	2 1 1	UP TO 30 DAYS
	915.687-034 AUTOMOBILE DETAILER	2 1 1	UP TO 30 DAYS
	920.687-182 STERILIZER	2 1 1	UP TO 30 DAYS
	939.687-022 LATRINE CLEANER	1 1 1	UP TO 30 DAYS
	954.587-010 WATER-FILTER CLEANER	2 1 1	UP TO 30 DAYS
	955.687-010 SEWAGE-DISPOSAL WORKER	2 1 1	UP TO 30 DAYS
20.0604 CUSTODIAL SERVICES	919.687-014 CLEANER 2	2 1 1	SHORT DEMONSTRATION
47.0203 HEATING AND AIR CONDITIONING	891.687-014 FURNACE CLEANER	2 1 1	UP TO 30 DAYS
47.0303 INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	699.687-014 MACHINE CLEANER	2 1 1	UP TO 30 DAYS
	915.687-026 STEAM CLEANER	2 1 1	UP TO 30 DAYS
47.0407 SPORTING GOODS EQUIPMENT REPAIR	732.687-046 MOLD CLEANER	1 1 1	UP TO 30 DAYS
48.0502 FOUNDRY WORK	503.687-010 SANDBLASTER	2 2 1	UP TO 30 DAYS
	519.664-010 ASSEMBLY CLEANER	3 2 2	30 TO 90 DAYS
49.0306 MARINE MAINTENANCE	809.687-026 MOLD PREPARER	2 1 1	UP TO 30 DAYS
	911.687-014 CLEANER 3	2 1 1	UP TO 30 DAYS

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OCCUPATION: 8760

MISCELLANEOUS MANUAL OCCUPATIONS

These workers perform many routine jobs that are done by hand. They may package or wrap materials by hand, inspecting items, labeling cartons, and stacking them on loading docks. Others wash and clean vehicles and equipment such as ovens, storage tanks, pipelines, and plant machinery. Some service vehicles by filling gas tanks, changing oil, and taking payments. Some park cars in garages or direct customers, issue tags, and patrol parking areas.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M I TRAINING TIME

* HIGHER EDUCATION TRAINING PROGRAM: DOT-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 8761

HAND PACKERS AND PACKAGERS

These workers package materials or products by hand. They work in a variety of industries and settings. The products and materials they may work with range from food or tobacco products to manufactured goods. They fill containers with materials and wrap articles in paper, plastic film, or other packing materials. They may clean, weigh, inspect, and sort articles before they are packaged. They may also stack or load filled containers and stamp information on cartons or labels.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		
CODE	TITLE	CODE	TITLE	R	M	I TRAINING TIME
00.0000	NO CIP ASSIGNED	522.687-010	BARREL FILLER	1	1	1 UP 10 30 DAYS
		522.687-018	BULKER	1	1	1 UP 10 30 DAYS
		529.687-022	BULK FILLER	2	1	2 30 10 90 DAYS
		529.687-086	FISH-EGG PACKER	1	1	1 UP 10 30 DAYS
		585.687-030	SINGER	1	1	1 UP 10 30 DAYS
		700.687-038	LABORER, GOLD LEAF	2	1	1 UP 10 30 DAYS
		710.687-034	TIE-UP WORKER	2	1	1 30 10 90 DAYS
		737.587-018	PRIMER BOXER	2	1	2 UP 10 30 DAYS
		737.687-014	BAG LOADER	1	1	1 SHORT DEMONSTRATION
		737.687-030	CORE LOADER	1	1	1 SHORT DEMONSTRATION
		737.687-094	PACKER-FUSER	1	1	1 SHORT DEMONSTRATION
		753.687-038	PACKING-LINE WORKER	2	2	1 UP 10 30 DAYS
		789.687-106	MOPHEAD TRIMMER-AND-WRAPPER	1	1	1 UP 10 30 DAYS
		794.687-034	PAPER-PATTERN FOLDER	1	1	1 SHORT DEMONSTRATION
		920.484-010	CRATER	3	1	2 30 10 90 DAYS
		920.587-010	CLOTH-BOLT BANDER	2	1	1 UP 10 30 DAYS
		920.587-018	PACKAGER, HAND	2	1	1 UP 10 30 DAYS
		920.687-010	APPLF-PACKING HEADER	2	1	1 UP 10 30 DAYS
		920.687-022	BALE SEWER	1	1	1 UP 10 30 DAYS
		920.687-030	BANDER, HAND	2	1	1 UP 10 30 DAYS
		920.687-034	BANDOLFER PACKER	1	1	1 SHORT DEMONSTRATION
		920.687-042	BOTTLING-LINE ATTENDANT	1	1	1 SHORT DEMONSTRATION
		920.687-066	CARRIER PACKER	2	1	1 UP 10 30 DAYS
		920.687-074	COTTON TIER	1	1	1 UP 10 30 DAYS
		920.687-078	CRAIE LINFR	2	1	1 UP 10 30 DAYS
		920.687-082	DENTAL FLOSS PACKER	2	1	1 UP 10 30 DAYS
		920.687-086	FISH PACKER	2	1	1 UP 10 30 DAYS
		920.687-090	FLOOR WORKER	2	1	1 UP 10 30 DAYS
		920.687-110	LINE-OUT WORKER 1	2	1	2 UP 10 30 DAYS
		920.687-114	LINE-OUT WORKER 2	2	1	1 UP 10 30 DAYS
		920.687-118	LINEN-SUPPLY LOAD-BUILDER	2	1	2 UP 10 30 DAYS
		920.687-122	MACHINE-PACK ASSEMBLER	1	1	1 UP 10 30 DAYS
		920.687-130	PACKER	2	1	1 UP 10 30 DAYS
		920.687-142	PRIZER	2	1	1 UP 10 30 DAYS

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OCCUPATION: 8761 HAND PACKERS AND PACKAGERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-	TRAINING TIME
CODE TITLE	CODE TITLE	R M I	
	920.687-146 REPACK-ROOM WORKER	2 1 2	UP TO 30 DAYS
	920.687-150 ROSIN-BARREL FILLER	1 1 1	SHORT DEMONSTRATION
	920.687-158 SHINGLE PACKER	2 1 1	UP TO 30 DAYS
	920.687-170 SHOT BAGGER	2 1 1	UP TO 30 DAYS
	920.687-174 SNUFF-BOX FINISHER	2 1 1	UP TO 30 DAYS
	920.687-198 WOOL SACKER	2 1 1	UP TO 30 DAYS
	922.687-010 BIN FILLER	1 1 1	UP TO 30 DAYS
	922.687-014 BINDER-AND-WRAPPER PACKER	2 1 1	UP TO 30 DAYS
	922.687-046 ICER	1 1 1	SHORT DEMONSTRATION
	922.687-094 TIMBER PACKER	1 1 1	UP TO 30 DAYS
	929.587-010 NUT-AND-BOLT ASSEMBLER	1 1 1	UP TO 30 DAYS
	929.687-042 ROLL COVERER, BURLAP	1 1 1	UP TO 30 DAYS
01.0402 FOOD PRODUCTS	920.687-134 PACKER, AGRICULTURAL PRODUCE	2 1 1	UP TO 30 DAYS
01.0603 ORNAMENTAL HORTICULTURE	920.687-094 GREENS TIER	1 1 1	SHORT DEMONSTRATION
	920.687-134 PACKER, AGRICULTURAL PRODUCE	2 1 1	UP TO 30 DAYS
07.0708 SHIPPING, RECEIVING, AND STOCK CLERK	920.687-162 SHIPPING PROCESSOR	2 1 2	UP TO 30 DAYS
08.0102 FASHION MERCHANDISING	920.587-022 SAMPLE CLERK, HANDKERCHIEF	2 1 2	UP TO 30 DAYS
08.0705 RETAILING	922.684-010 LOCKER-PLANT ATTENDANT	3 1 2	THREE TO SIX MONTHS
08.0707 WHOLESALE	922.684-010 LOCKER-PLANT ATTENDANT	3 1 2	THREE TO SIX MONTHS
12.0101 DRYCLEANING AND LAUNDERING SERVICES	920.687-018 BAGGER	1 1 1	SHORT DEMONSTRATION
20.0302 CLOTHING MAINTENANCE AIDE	920.687-018 BAGGER	1 1 1	SHORT DEMONSTRATION
20.0303 COMMERCIAL GARMENT AND APPAREL CONSTRUCT	784.687-042 INSPECTOR-PACKER	2 1 2	UP TO 30 DAYS
	920.687-098 HANDKERCHIEF FOLDER	2 1 1	UP TO 30 DAYS
48.0102 ARCHITECTURAL DRAFTING	920.687-038 BLUEPRINT TRIMMER	2 1 1	UP TO 30 DAYS
48.0103 CIVIL/STRUCTURAL DRAFTING	920.687-038 BLUEPRINT TRIMMER	2 1 1	UP TO 30 DAYS
48.0104 ELECTRICAL/ELECTRONICS DRAFTING	920.687-038 BLUEPRINT TRIMMER	2 1 1	UP TO 30 DAYS
48.0105 MECHANICAL DRAFTING	920.687-038 BLUEPRINT TRIMMER	2 1 1	UP TO 30 DAYS
48.0304 SHOE AND BOOT REPAIR	920.687-166 SHOE PACKER	2 1 1	UP TO 30 DAYS

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OCCUPATION: 8761 HAND PACKERS AND PACKAGERS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GID-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
48.0403	SLAUGHTERING AND BUTCHERING	525.687-082	POULTRY-DRESSING WORKER	1 1 1	UP TO 30 DAYS
		525.687-118	TIER	1 1 1	UP TO 30 DAYS
		529.687-150	LINKER	2 1 1	30 TO 90 DAYS
49.0203	MATERIAL HANDLING	929.684-010	PACKER	2 1 2	30 TO 90 DAYS
		929.687-054	PALLETIZER	2 2 2	UP TO 30 DAYS

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OCCUPATION: 8769

MANUAL OCCUPATIONS, N.E.C.

People in these jobs perform tasks that do not require training. They generally work with their hands. They work in a wide variety of industries and settings. Their work ranges from hand delivering phone books to homes, to cleaning floors and equipment in a plant. They may tend a machine, load and unload materials, or cut materials to size for further processing. These are only a few examples of the things they may do.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS----- CODE TITLE	-----DICTIONARY OF OCCUPATIONAL TITLES----- CODE TITLE	-GID- R M L TRAINING TIME
00.0000 NO CIP ASSIGNED	230.667-014 TELEPHONE-DIRECTORY DELIVERER	1 1 1 SHORT DEMONSTRATION
	369.477-010 CURB ATTENDANT	2 2 2 UP TO 30 DAYS
	372.667-026 FLAGGER	2 1 1 UP TO 30 DAYS
	500.687-610 PLATE-TAKE-OUT WORKER	2 1 1 UP TO 30 DAYS
	509.687-014 PORCELAIN-ENAMEL LABORER	1 1 1 UP TO 30 DAYS
	511.687-026 TAILINGS-DAM LABORER	2 1 1 UP TO 30 DAYS
	521.687-010 ALMOND BLANCHER, HAND	1 1 1 SHORT DEMONSTRATION
	521.687-014 BINDER CUTTER, HAND	1 1 1 UP TO 30 DAYS
	521.687-026 BUNCH TRIMMER, MOLD	1 1 1 SHORT DEMONSTRATION
	521.687-038 DRIP-BOX TENDER	1 1 1 SHORT DEMONSTRATION
	521.687-042 EGG BREAKER	1 1 1 UP TO 30 DAYS
	521.687-046 FILLER SPREADER	1 1 1 SHORT DEMONSTRATION
	521.687-058 FISH CHOPPER, GANG KNIFE	1 1 1 UP TO 30 DAYS
	521.687-074 LABORER, SIRUP MACHINE	1 1 1 SHORT DEMONSTRATION
	521.687-098 PICKER	1 1 1 UP TO 30 DAYS
	521.687-102 PICKING-TABLE WORKER	1 1 1 SHORT DEMONSTRATION
	521.687-110 SHAKER	1 1 1 SHORT DEMONSTRATION
	521.687-118 SHELLER 1	1 1 1 SHORT DEMONSTRATION
	521.687-122 SHELLFISH SHUCKER	2 1 1 30 TO 90 DAYS
	521.687-126 SKIN LIFTER, BACON	1 1 1 SHORT DEMONSTRATION
	521.687-134 STEMMER, HAND	1 1 1 UP TO 30 DAYS
	521.687-138 TABLE HAND	1 1 1 UP TO 30 DAYS
	522.665-014 YEAST PUSHER	2 1 1 UP TO 30 DAYS
	522.687-014 BRINER	1 1 1 UP TO 30 DAYS
	522.687-022 FILLER ROOM ATTENDANT	1 1 1 UP TO 30 DAYS
	522.687-026 LEAF CONDITIONER	1 1 1 UP TO 30 DAYS
	522.687-038 TURNER	1 1 1 UP TO 30 DAYS
	523.587-010 DRIER, SHORT GOODS	2 2 2 30 TO 90 DAYS
	523.687-014 FISH DRIER	1 1 1 UP TO 30 DAYS
	523.687-018 EELR LOADER	1 1 1 UP TO 30 DAYS
	524.687-010 CHERRY CUTTER	1 1 1 SHORT DEMONSTRATION
	525.687-062 PAINTER, DEPLIATORY	1 1 1 SHORT DEMONSTRATION
	525.687-070 POULTRY DRESSER	1 1 1 UP TO 30 DAYS
	525.687-078 POULTRY HANGER	1 1 1 SHORT DEMONSTRATION

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME	
CODE	TITLE	CODE	TITLE	R	M	L	
		525.687-090	SHACTOR HELPER	1	1	1	UP TO 30 DAYS
		525.687-110	STEAMER	1	1	1	SHORT DEMONSTRATION
		525.687-122	WASHER, CARCASS	1	1	1	SHORT DEMONSTRATION
		529.667-014	MASH-FILTER-CLOTH CHANGER	1	1	1	UP TO 30 DAYS
		529.686-050	LABORER, CHEESEMAKING	2	1	1	UP TO 30 DAYS
		529.686-078	RAW-CHEESE WORKER	2	1	1	UP TO 30 DAYS
		529.687-010	BASKET FILLER	1	1	1	SHORT DEMONSTRATION
		529.687-038	CHAR-DUST CLEANER AND SALVAGER	2	1	1	UP TO 30 DAYS
		529.687-066	DISTILLERY WORKER, GENERAL	2	1	1	UP TO 30 DAYS
		529.687-070	DISTRIBUTOR-CLEANER	1	1	1	SHORT DEMONSTRATION
		529.687-094	GENERAL HELPER	1	1	1	UP TO 30 DAYS
		529.687-130	LABORER	2	1	1	UP TO 30 DAYS
		529.687-166	ODD BUNDLE WORKER	1	1	1	UP TO 30 DAYS
		529.687-202	TEMPERATURE INSPECTOR	2	1	2	30 TO 90 DAYS
		534.687-010	CONF TREATER	2	1	1	UP TO 30 DAYS
		539.587-010	LABORER, RAGS	2	1	1	UP TO 30 DAYS
		540.687-010	SEAL MIXER	2	2	2	UP TO 30 DAYS
		543.687-010	COKE DRAWER, HAND	1	1	1	UP TO 30 DAYS
		543.687-014	OVEN DAUBER	2	1	1	UP TO 30 DAYS
		549.587-010	COMPRESSED-GAS-PLANT WORKER	2	2	2	UP TO 30 DAYS
		549.687-010	CHASER, TAR	1	1	1	UP TO 30 DAYS
		549.687-018	LABORER, PETROLEUM REFINERY	2	1	1	30 TO 90 DAYS
		550.687-010	CHEMICAL-COMPOUNDER HELPER	2	1	1	UP TO 30 DAYS
		550.687-014	COLOR STRAINER	1	1	1	UP TO 30 DAYS
		551.687-010	BONE PICKER	1	1	1	SHORT DEMONSTRATION
		551.687-018	DYNAMITE RECLAIMER	2	1	1	UP TO 30 DAYS
		551.687-022	LABORER, COOK HOUSE	1	1	1	UP TO 30 DAYS
		551.687-030	SIFTER	2	1	1	UP TO 30 DAYS
		551.687-034	SODA-ROOM OPERATOR	1	1	1	UP TO 30 DAYS
		554.687-010	SPREADER	2	1	1	UP TO 30 DAYS
		556.687-018	MOLD CLEANER	2	1	1	UP TO 30 DAYS
		556.687-026	POURER	1	1	1	UP TO 30 DAYS
		558.687-010	BLEACH PACKER	1	1	1	SHORT DEMONSTRATION
		559.567-010	LABORER, GENERAL	2	1	1	UP TO 30 DAYS
		559.685-110	LABORER, GENERAL	2	1	1	UP TO 30 DAYS
		559.687-030	COTTON WASHER	1	1	1	SHORT DEMONSTRATION
		559.687-046	FRAME STRIPPER	1	1	1	SHORT DEMONSTRATION
		559.687-050	LABORER, CHEMICAL PROCESSING	2	1	1	30 TO 90 DAYS
		559.687-054	SKEIN-WINDING OPERATOR	1	1	1	SHORT DEMONSTRATION
		561.686-010	LABORER, WOOD-PRESERVING PLANT	2	1	1	UP TO 30 DAYS
		561.687-010	WOOD-POLE TREATER	1	1	1	SHORT DEMONSTRATION
		564.687-010	CHOPPER	1	1	1	SHORT DEMONSTRATION

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M I	
		569.687-010	CLAMP REMOVER	1	1 1	UP TO 30 DAYS
		569.687-014	LOG WASHER	1	1 1	UP TO 30 DAYS
		574.667-010	DUST BOX WORKER	2	1 1	UP TO 30 DAYS
		575.687-018	LABORER, PRESTRESSED CONCRETE	1	1 1	UP TO 30 DAYS
		579.667-010	LABORER, GENERAL	1	1 1	SHORT DEMONSTRATION
		579.686-010	LABORER, CONCRETE PLANT	2	1 1	UP TO 30 DAYS
		581.687-010	BURLAP SPREADER	1	1 1	SHORT DEMONSTRATION
		581.687-014	DRYING-ROOM ATTENDANT	1	1 1	SHORT DEMONSTRATION
		581.687-022	SPREADER	1	1 1	SHORT DEMONSTRATION
		582.687-014	DYER	1	1 1	UP TO 30 DAYS
		582.687-026	SIZER	2	1 1	30 TO 90 DAYS
		582.687-030	TREATER	1	1 1	UP TO 30 DAYS
		583.687-010	PRESS HAND	1	1 1	UP TO 30 DAYS
		584.687-010	LEATHER COATER	1	1 1	SHORT DEMONSTRATION
		584.687-014	SPRAYER, HAND	1	1 1	UP TO 30 DAYS
		585.687-014	CARPET CUTTER 2	2	1 1	30 TO 90 DAYS
		585.687-018	CLOTH-EDGE SINGER	2	1 1	UP TO 30 DAYS
		585.687-026	SHADE-CLOTH FINISHER	2	1 2	UP TO 30 DAYS
		587.687-010	CANVAS SHRINKER	1	1 1	UP TO 30 DAYS
		589.686-026	LABORER, GENERAL	2	1 1	UP TO 30 DAYS
		589.687-010	CAKE WRAPPER	1	1 1	UP TO 30 DAYS
		589.687-018	DIPPER	1	1 1	UP TO 30 DAYS
		589.687-022	FABRIC-LAY-OUT WORKER	2	1 2	UP TO 30 DAYS
		589.687-026	LABORER, GENERAL	1	1 1	UP TO 30 DAYS
		589.687-034	STAINER	2	1 1	UP TO 30 DAYS
		589.687-042	TUBE CLEANER	1	1 1	UP TO 30 DAYS
		590.667-010	STOVE-BOTTOM WORKER	2	1 2	UP TO 30 DAYS
		590.687-010	LABORER	2	1 1	UP TO 30 DAYS
		599.687-014	BOOKER	1	1 1	SHORT DEMONSTRATION
		599.687-030	WASHER	2	1 1	UP TO 30 DAYS
		652.687-010	CLOTH SPREADER, SCREEN PRINTING	2	1 1	30 TO 90 DAYS
		652.687-014	COLOR DIPPER	2	1 1	UP TO 30 DAYS
		652.687-018	FELLER-BLOCK INSERTER-REMOVER	1	1 1	SHORT DEMONSTRATION
		652.687-022	PAINT POURER	1	1 1	SHORT DEMONSTRATION
		652.687-026	PASTER, SCREEN PRINTING	1	1 1	UP TO 30 DAYS
		680.687-010	APRON CLEANER	1	1 1	UP TO 30 DAYS
		681.687-014	LOOSE-END FINDER, BOBBIN	1	1 1	UP TO 30 DAYS
		681.687-026	YARN CLEANER	2	1 1	UP TO 30 DAYS
		683.687-014	DROP-WIRE HANGER	1	1 1	UP TO 30 DAYS
		683.687-018	HANDER-IN	2	1 1	UP TO 30 DAYS
		683.687-022	HOOK PULLER	1	1 1	SHORT DEMONSTRATION
		689.686-050	UTILITY WORKER, WOOLEN MILL	2	1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
		689.687-010	BAGGING SALVAGER	1 1 1	SHORT DEMONSTRATION
		689.687-014	BOBBIN CLEANER, HAND	1 1 1	UP TO 30 DAYS
		689.687-018	BUNDLE BREAKER	1 1 1	UP TO 30 DAYS
		689.687-030	CRIFLER	1 1 1	UP TO 30 DAYS
		689.687-038	END FINDER, ROVING DEPARTMENT	2 1 2	UP TO 30 DAYS
		689.687-042	END FINDER, TWISTING DEPARTMENT	2 1 2	UP TO 30 DAYS
		689.687-046	FRAME HAND	1 1 1	UP TO 30 DAYS
		689.687-058	PICK REMOVER	1 1 1	UP TO 30 DAYS
		699.687-022	ROPE CLEANER	1 1 1	UP TO 30 DAYS
		709.687-010	CLEANER AND POLISHER	1 1 1	UP TO 30 DAYS
		709.687-014	CLEANER, FURNITURE	1 1 1	UP TO 30 DAYS
		709.687-046	TIN-CONTAINER STRAIGHTENER	1 1 1	SHORT DEMONSTRATION
		710.687-010	BELLOWS ASSEMBLER	2 1 1	30 TO 90 DAYS
		710.687-022	DEWAXER	2 1 1	UP TO 30 DAYS
		712.687-030	SUTURE POLISHER	2 1 1	UP TO 30 DAYS
		712.687-034	SUTURE WINDER, HAND	2 1 1	UP TO 30 DAYS
		716.687-010	DEBLOCKER	2 1 1	30 TO 90 DAYS
		723.687-022	WIPER	2 1 1	UP TO 30 DAYS
		727.687-010	BATTERY CHARGER	2 2 1	30 TO 90 DAYS
		727.687-014	ACID FILLER	2 1 1	UP TO 30 DAYS
		727.687-026	BATTERY CHARGER, CONVEYOR LINE	2 1 1	UP TO 30 DAYS
		729.687-014	ELECTRODE CLEANER	1 1 1	SHORT DEMONSTRATION
		729.687-018	LAMINATION SPINNER	2 1 1	UP TO 30 DAYS
		729.687-026	PLATE STACKER, HAND	1 1 1	UP TO 30 DAYS
		731.687-010	FINISHER, HAND	2 1 1	UP TO 30 DAYS
		731.687-018	HACKLER, DOLL WIGS	2 1 1	UP TO 30 DAYS
		731.687-038	WIRE CUTTER	1 1 1	SHORT DEMONSTRATION
		732.687-082	WAX-BALL KNOCK-OUT WORKER	1 1 1	UP TO 30 DAYS
		733.687-022	CHALK CUTTER	1 1 1	UP TO 30 DAYS
		733.687-026	CLAMPER	1 1 1	UP TO 30 DAYS
		733.687-038	DIPPER	1 1 1	UP TO 30 DAYS
		733.687-078	WASHER	1 1 1	SHORT DEMONSTRATION
		734.687-022	BOBBIN DISKER	2 1 1	UP TO 30 DAYS
		734.687-086	SPLITTER, HAND	1 1 1	UP TO 30 DAYS
		737.687-010	BANDOLEER STRAIGHTENER-STAMPER	1 1 1	UP TO 30 DAYS
		737.687-050	IGNITER CAPPER	1 1 1	SHORT DEMONSTRATION
		737.687-082	MANUAL-FLATE FILLER	1 1 1	UP TO 30 DAYS
		739.687-050	CANDLE CUTTER	1 1 1	UP TO 30 DAYS
		739.687-058	CLEANER	2 1 1	UP TO 30 DAYS
		739.687-098	FLOOR WORKER	1 1 1	SHORT DEMONSTRATION
		739.687-150	PIPE-SMOKER-MACHINE OPERATOR	2 1 1	UP TO 30 DAYS
		739.687-158	POURER	1 1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M I	
		739.687-170	SMOKING-PIPE LINER	1	1 1	UP TO 30 DAYS
		739.687-178	STARCHER	1	1 1	UP TO 30 DAYS
		749.587-010	RACKER	2	1 2	UP TO 30 DAYS
		753.687-034	MOLD-INSERT CHANGER	2	1 1	30 TO 90 DAYS
		754.687-014	SEQUINS STRINGER	1	1 1	UP TO 30 DAYS
		762.687-026	CROSSBAND LAYER	2	1 1	UP TO 30 DAYS
		763.687-010	BLOW-OFF WORKER	1	1 1	UP TO 30 DAYS
		764.687-010	AIR-AND-WATER FILLER	2	1 1	UP TO 30 DAYS
		764.687-018	BARREL DRAINER	1	1 1	SHORT DEMONSTRATION
		764.687-030	BARREL MARKER	2	1 1	UP TO 30 DAYS
		769.687-038	PUTTY MIXER AND APPLIER	1	1 1	SHORT DEMONSTRATION
		769.687-054	WOODWORKING-SHOP HAND	2	1 1	UP TO 30 DAYS
		770.687-026	JEWEL STRINGER	2	1 1	UP TO 30 DAYS
		774.687-022	WARE CLEANER	2	1 1	UP TO 30 DAYS
		775.687-022	GOLD BURNISHER	2	1 1	UP TO 30 DAYS
		779.687-038	WAXER	1	1 1	UP TO 30 DAYS
		781.687-050	RIBBON CUTTER	2	1 1	UP TO 30 DAYS
		782.687-030	PULLER-THROUGH	1	1 1	SHORT DEMONSTRATION
		784.687-014	CARROTTER	2	1 1	UP TO 30 DAYS
		784.687-054	OPENER 1	2	1 1	UP TO 30 DAYS
		784.687-066	SMOKE-ROOM OPERATOR	1	1 1	UP TO 30 DAYS
		788.687-074	LACING-SRING CUTTER	1	1 1	SHORT DEMONSTRATION
		788.687-106	SCRAP SORTER	1	1 1	UP TO 30 DAYS
		788.687-134	SOLE SCRAPER	1	1 1	UP TO 30 DAYS
		788.687-146	JACK PULLER	1	1 1	UP TO 30 DAYS
		789.587-018	PARACHUTE MARKER	2	1 1	UP TO 30 DAYS
		789.687-014	BAG LINER	1	1 1	UP TO 30 DAYS
		789.687-018	BONER	2	1 1	UP TO 30 DAYS
		789.687-054	FLOCKER	2	1 1	UP TO 30 DAYS
		789.687-058	FOLDER	1	1 1	UP TO 30 DAYS
		789.687-062	FRINGER	1	1 1	UP TO 30 DAYS
		789.687-090	LABORER, CANVAS SHOP	2	1 1	UP TO 30 DAYS
		789.687-094	LACER	2	1 1	UP TO 30 DAYS
		789.687-110	PAIRER	1	1 1	SHORT DEMONSTRATION
		789.687-118	PARACHUTE-LINE TIER	2	2 1	UP TO 30 DAYS
		789.687-122	PILLOW CLEANER	1	1 1	SHORT DEMONSTRATION
		789.687-134	RAG SORTER AND CUTTER	1	1 1	UP TO 30 DAYS
		789.687-138	RAKER	1	1 1	UP TO 30 DAYS
		789.687-150	REMNANTS CUTTER	1	1 1	SHORT DEMONSTRATION
		789.687-174	THREAD SEPARATOR	1	1 1	UP TO 30 DAYS
		790.687-010	CANDY CUTTER, HAND	2	1 1	UP TO 30 DAYS
		790.687-022	MOID PRESSER	2	1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M	I	
		790.687-030	TWISTER, HAND	1	1	1	UP TO 30 DAYS
		794.687-038	PATTERN RULER	1	1	1	UP TO 30 DAYS
		805.687-010	BOILERMAKER HELPER 1	2	1	1	UP TO 30 DAYS
		809.687-022	LABORER, SHIPYARD	2	1	1	UP TO 30 DAYS
		909.687-014	LABORER, GENERAL	1	1	1	UP TO 30 DAYS
		910.687-018	CAR ICER	2	1	1	UP TO 30 DAYS
		910.687-026	TRACK OILER	2	1	1	UP TO 30 DAYS
		911.677-010	TICKET TAKER, FERRYBOAT	2	2	2	UP TO 30 DAYS
		920.587-014	LABEL CODER	2	1	1	UP TO 30 DAYS
		920.687-058	CAN RECONDITIONER	2	1	2	30 TO 90 DAYS
		920.687-062	CARDBOARD INSERTER	1	1	1	SHORT DEMONSTRATION
		920.687-102	HOGSHEAD OPENER	2	1	2	UP TO 30 DAYS
		920.687-106	LABEL REMOVER	2	1	1	UP TO 30 DAYS
		920.687-126	MARKER 2	2	1	1	UP TO 30 DAYS
		920.687-138	PAPER INSERTER	1	1	1	UP TO 30 DAYS
		920.687-186	TABLE-COVER FOLDER	2	1	1	UP TO 30 DAYS
		921.687-034	WOOD HANDLER	1	1	1	UP TO 30 DAYS
		922.687-030	CAN FILLER	1	1	1	SHORT DEMONSTRATION
		922.687-062	LABORER, WHARF	1	1	1	UP TO 30 DAYS
		922.687-102	YARD LABORER	1	1	1	SHORT DEMONSTRATION
		929.686-014	BAND SALVAGER	1	1	1	SHORT DEMONSTRATION
		929.687-010	CUTTER, BANANA ROOM	2	1	1	UP TO 30 DAYS
		929.687-018	LABORER, HIGH-DENSITY PRESS	1	1	1	UP TO 30 DAYS
		929.687-026	LINER INSERTER	1	1	1	UP TO 30 DAYS
		929.687-038	RETURNED-CASE INSPECTOR	1	1	1	UP TO 30 DAYS
		932.687-010	CHUTE LOADER	1	1	1	SHORT DEMONSTRATION
		939.687-014	COMPANY LABORER	1	1	1	SHORT DEMONSTRATION
		952.665-010	LABORER, POWERHOUSE	2	1	1	30 TO 90 DAYS
		952.667-010	STREET-LIGHT CLEANER	2	1	1	UP TO 30 DAYS
		955.687-018	STREET CLEANER	1	1	1	SHORT DEMONSTRATION
		962.687-010	DOLLY PUSHER	2	1	1	UP TO 30 DAYS
		962.687-014	FILM LOADER	2	1	1	UP TO 30 DAYS
		969.687-010	CIRCUS LABORER	2	1	1	UP TO 30 DAYS
		969.687-014	ICE MAKER, SKATING RINK	2	1	2	UP TO 30 DAYS
01.0603	ORNAMENTAL HORTICULTURE	920.687-046	BUNDLER, SEASONAL GREENERY	2	1	1	UP TO 30 DAYS
03.0405	LOGGING	921.687-022	LOG LOADER HELPER	1	1	1	UP TO 30 DAYS
08.0202	DISPLAY	299.687-010	PORTER, SAMPLE CASE	2	1	1	UP TO 30 DAYS
08.1102	TRANSPORTATION MARKETING	910.687-010	BAGGAGE HANDLER	2	1	1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M L	
09.0201	ADVERTISING	230.687-010	ADVERTISING-MATERIAL DISTRIBUTOR	1	1 1	UP TO 30 DAYS
12.0101	DRYCLEANING AND LAUNDERING SERVICES	361.687-018	LAUNDRY LABORER	1	1 1	UP TO 30 DAYS
		361.687-030	WASHER, HAND	2	1 1	UP TO 30 DAYS
		362.687-010	GLOVE CLEANER, HAND	2	1 2	UP TO 30 DAYS
		362.687-014	LINING SCRUBBER	1	1 1	UP TO 30 DAYS
		362.687-018	SHAVER	1	1 1	UP TO 30 DAYS
		363.687-010	GLOVE FORMER	1	1 1	30 TO 90 DAYS
		363.687-014	IRONER, SOCK	1	1 1	SHORT DEMONSTRATION
		363.687-018	PUFF IRONER	1	1 1	SHORT DEMONSTRATION
		363.687-022	STRETCHER-DRYER OPERATOR	2	1 1	UP TO 30 DAYS
		364.687-010	DYER HELPER	2	1 1	30 TO 90 DAYS
		364.687-014	RUG-DYER HELPER	2	1 1	30 TO 90 DAYS
		369.687-010	LAUNDRY WORKER 3	2	1 2	30 TO 90 DAYS
		369.687-018	FOLDER	2	1 1	UP TO 30 DAYS
		369.687-026	MARKER	2	1 1	UP TO 30 DAYS
		580.687-010	ORIENTAL-RUG STRETCHER	2	1 2	UP TO 30 DAYS
		689.687-050	OIL-SPOT WASHER	2	1 1	UP TO 30 DAYS
		689.687-066	RUG CLEANER	2	1 1	UP TO 30 DAYS
20.0302	CLOTHING MAINTENANCE AIDE	361.687-026	SHAKER, WEARING APPAREL	1	1 1	UP TO 30 DAYS
		362.687-010	GLOVE CLEANER, HAND	2	1 2	UP TO 30 DAYS
		362.687-014	LINING SCRUBBER	1	1 1	UP TO 30 DAYS
		363.687-014	IRONER, SOCK	1	1 1	SHORT DEMONSTRATION
		363.687-018	PUFF IRONER	1	1 1	SHORT DEMONSTRATION
		369.687-018	FOLDER	2	1 1	UP TO 30 DAYS
		369.687-026	MARKER	2	1 1	UP TO 30 DAYS
		782.687-038	RIPPER	2	1 1	UP TO 30 DAYS
20.0303	COMMERCIAL GARMENT AND APPAREL, CONSTRUCT	589.687-038	STIFFENER	2	1 1	30 TO 90 DAYS
		685.687-014	CUFF FOLDER	1	1 1	UP TO 30 DAYS
		781.687-018	CLOTH TEARER	2	1 1	UP TO 30 DAYS
		781.687-022	CUTTER HELPER	2	1 1	UP TO 30 DAYS
		781.687-026	CUTTER, HAND 2	2	1 1	UP TO 30 DAYS
		781.687-058	SPREADER 1	2	1 1	UP TO 30 DAYS
		781.687-062	STAMPER	2	1 1	UP TO 30 DAYS
		781.687-066	STENCILER	2	1 1	UP TO 30 DAYS
		782.687-010	BASTING PULLER	1	1 1	UP TO 30 DAYS
		782.687-014	BUTTONER	1	1 1	SHORT DEMONSTRATION
		782.687-026	PINNER	1	1 1	UP TO 30 DAYS
		782.687-034	RAVELER	1	1 1	SHORT DEMONSTRATION

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CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
		782.687-038	RIPPER	2 1 1	UP TO 30 DAYS
		783.687-030	TABLE WORKER	1 1 1	SHORT DEMONSTRATION
		784.687-010	BRIM RAISER	2 1 1	UP TO 30 DAYS
		784.687-026	ENDBAND CUTTER, HAND	2 1 1	UP TO 30 DAYS
		784.687-038	GLOVE TURNER	1 1 1	UP TO 30 DAYS
		784.687-058	POWDERER	2 1 1	UP TO 30 DAYS
		784.687-078	STRAW-HAT-WASHER OPERATOR	1 1 1	SHORT DEMONSTRATION
		789.687-030	CLIPPER	1 1 1	UP TO 30 DAYS
		789.687-046	FINAL ASSEMBLER	2 1 1	UP TO 30 DAYS
		789.687-066	GARMENT FOLDER	1 1 1	UP TO 30 DAYS
		789.687-074	GARMENT TURNER	1 1 1	UP TO 30 DAYS
		789.687-166	SEAM STEAMER	1 1 1	SHORT DEMONSTRATION
		789.687-178	TIE PRESSER	2 1 1	UP TO 30 DAYS
		789.687-182	TURNER	1 1 1	UP TO 30 DAYS
		920.687-190	TIE BINDER	2 1 1	UP TO 30 DAYS
20.0304	CUSTOM APPAREL/GARMENT SEAMSTRESS	782.687-010	BASTING PULLER	1 1 1	UP TO 30 DAYS
20.0402	BAKING	520.587-010	PRETZEL TWISTER	1 1 1	UP TO 30 DAYS
		524.687-018	RACKER	1 1 1	SHORT DEMONSTRATION
20.0403	CHEF/COOK	520.687-046	MEXICAN FOOD MAKER, HAND	2 1 1	UP TO 30 DAYS
20.0406	FOOD SERVICE	520.687-014	BLINIZE ROLLER	1 1 1	UP TO 30 DAYS
		520.687-022	CANDY SPREADER	1 1 1	UP TO 30 DAYS
		521.687-066	FRUIT CUTTER	1 1 1	SHORT DEMONSTRATION
		524.686-014	NOVELTY WORKER	2 1 1	UP TO 30 DAYS
		524.687-014	GARNISHER	1 1 1	SHORT DEMONSTRATION
46.0401	BUILDING AND PROPERTY MAINTENANCE	899.687-014	LABORER, AIRPORT MAINTENANCE	2 1 1	UP TO 30 DAYS
47.0102	BUSINESS MACHINE REPAIR	706.587-010	CLEANER-TOUCH-UP WORKER	2 1 2	30 TO 90 DAYS
47.0203	HEATING AND AIR CONDITIONING	862.687-022	OIL-BURNER-SERVICER-AND-INSTALLER H	1 1 1	UP TO 30 DAYS
		869.687-030	FURNACE-INSTALLER-AND-REPAIRER HELP	2 1 1	UP TO 30 DAYS
47.0303	INDUSTRIAL EQUIPMENT MAINTENANCE AND REP	952.665-010	LABORER, POWERHOUSE	2 1 1	30 TO 90 DAYS
47.0305	OIL AND GAS DRILLING EQUIPMENT OPERATION	914.687-010	LABORER, PIPE-LINES	2 1 1	UP TO 30 DAYS
		939.687-018	LABORER	1 1 1	SHORT DEMONSTRATION
47.0402	GUNSMITHING	736.587-010	BARREL LOADER AND CLEANER	2 1 1	UP TO 30 DAYS

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CODE	TITLE	CODE	TITLE	R	M	I	
		736.687-010	GREASER	1	1	1	UP TO 30 DAYS
47.0407	SPORTING GOODS EQUIPMENT REPAIR	732.687-030	LABORER	1	1	1	UP TO 30 DAYS
		732.687-066	REVERSER	2	1	1	UP TO 30 DAYS
47.0408	WATCH REPAIR	715.687-022	DIAL BRUSHER	1	1	1	UP TO 30 DAYS
		715.687-026	DIPPER, CLOCK AND WATCH HANDS	1	1	1	UP TO 30 DAYS
		715.687-042	HAIRSPRING CUTTER 2	2	1	2	UP TO 30 DAYS
		715.687-086	MASKER	1	1	1	UP TO 30 DAYS
		715.687-090	MOTOR POLARIZER	1	1	1	UP TO 30 DAYS
		715.687-102	PARTS REMOVER	1	1	1	UP TO 30 DAYS
		715.687-106	RACKER	1	1	1	UP TO 30 DAYS
		715.687-126	WASHER	2	1	1	UP TO 30 DAYS
47.0502	CONVENTIONAL ELECTRICAL POWER GENERATION	952.665-019	LABORER, POWERHOUSE	2	1	1	30 TO 90 DAYS
47.0504	PUMPING PLANTS	914.687-010	LABORER, PIPE-LINES	2	1	1	UP TO 30 DAYS
47.0604	AUTOMOTIVE MECHANICS	915.687-030	TAXI SERVICER	2	1	1	UP TO 30 DAYS
48.0303	UPHOLSTERING	780.687-026	MATRESS STRIPPER	1	1	1	THREE TO SIX MONTHS
		780.687-058	UPHOLSTERY CLEANER	2	1	1	UP TO 30 DAYS
48.0304	SHOE AND BOOT REPAIR	753.687-010	CLIPPER	2	1	1	UP TO 30 DAYS
		788.687-018	BRUSHER	1	1	1	UP TO 30 DAYS
		788.687-022	BUCKLER AND LACER	1	1	1	UP TO 30 DAYS
		788.687-042	FINISHING TRIMMER	2	1	1	UP TO 30 DAYS
		788.687-058	HEEL DIPPER	1	1	1	UP TO 30 DAYS
		788.687-062	INSOLE-AND-HEEL-STIFFENER	1	1	1	UP TO 30 DAYS
		788.687-066	LABORER, BOOT AND SHOE	2	1	1	UP TO 30 DAYS
		788.687-070	LACER 1	1	1	1	UP TO 30 DAYS
		788.687-078	LAST CHALKER	2	1	1	UP TO 30 DAYS
		788.687-086	LAST PULLER	2	1	1	UP TO 30 DAYS
		788.687-090	LEATHER SOFTENER	2	1	1	UP TO 30 DAYS
		788.687-114	SHANK TAPER	1	1	1	UP TO 30 DAYS
		788.687-122	SHOE CLEANER	2	1	1	UP TO 30 DAYS
		788.687-126	SHOE COVERER	1	1	1	UP TO 30 DAYS
		788.687-130	SHOE TURNER	2	1	1	UP TO 30 DAYS
		922.687-066	LAST PUTTER-AWAY	1	1	1	UP TO 30 DAYS
48.0403	SLAUGHTERING AND BUTCHERING	521.687-106	SAUSAGE-MEAT TRIMMER	2	2	1	UP TO 30 DAYS
		521.687-130	SKULL GRINDER	1	1	1	UP TO 30 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		R M I		TRAINING TIME	
CODE	TITLE	CODE	TITLE						
		525.587-010	SHROUDER	1	1	1	UP	10	30 DAYS
		525.587-014	SMOKED MEAT PREPARER	1	1	1	UP	10	30 DAYS
		525.684-042	POULTRY KILLER	1	1	1	UP	10	30 DAYS
		525.687-018	CONVEYOR LOADER 1	1	1	1	UP	10	30 DAYS
		525.687-030	GAMBRELER	1	1	1	UP	10	30 DAYS
		525.687-034	GAMBRELER HELPER	1	1	1	UP	10	30 DAYS
		525.687-038	HIDE HANDLER	2	1	1	UP	10	30 DAYS
		525.687-046	HIDE TRIMMER	2	1	1	UP	10	30 DAYS
		525.687-050	NECK SKIEWER	1	1	1	UP	10	30 DAYS
		525.687-058	ORDER RUNNER	1	1	1	UP	10	30 DAYS
		525.687-066	POULTRY BONER	1	1	1	UP	10	30 DAYS
		525.687-074	POULTRY EVISCERATOR	1	1	1	UP	10	30 DAYS
		525.687-094	SHAVER	2	1	1	UP	10	30 DAYS
		525.687-098	SINGER	2	1	1	UP	10	30 DAYS
		525.687-106	SLUNK-SKIN CURER	2	1	1	UP	10	30 DAYS
		525.687-114	STUNNER, ANIMAL	1	1	1	UP	10	30 DAYS
48.0502	FOUNDRY WORK	509.687-010	BOTTOM MAKER	2	1	1	UP	10	30 DAYS
		514.687-014	CASTING-HOUSE WORKER	2	1	1	UP	10	30 DAYS
		519.667-014	LABORER, SOLDER MAKING	2	1	1	UP	10	30 DAYS
		519.687-022	FOUNDRY WORKER, GENERAL	2	1	1	UP	10	30 DAYS
		519.687-026	LABORER, GENERAL	2	1	1	UP	10	30 DAYS
48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	705.687-014	LABORER, GRINDING AND POLISHING	2	2	2	UP	10	30 DAYS
48.0506	SHEET METAL	709.686-010	LABORER, TIN CAN	2	1	1	UP	10	30 DAYS
48.0601	INDUSTRIAL CERAMICS MANUFACTURING	573.667-010	KILN DRAWER	2	1	1	UP	10	30 DAYS
		573.687-022	KILN WORKER	1	1	1	UP	10	30 DAYS
		575.687-010	BALCONY WORKER	2	1	1	UP	10	30 DAYS
48.0602	JEWELRY DESIGN, FABRICATION, AND REPAIR	705.687-010	JIGGER	1	1	1	UP	10	30 DAYS
		735.687-010	DIPPER	2	1	1	UP	10	30 DAYS
		735.687-026	RACKER	1	1	1	UP	10	30 DAYS
		770.687-030	PULVERIZER	2	1	1	UP	10	30 DAYS
48.0604	PLASTICS	554.586-010	FINISHER	2	1	1	UP	10	30 DAYS
		556.587-010	MOULD PARTER	2	1	1	UP	10	30 DAYS
		556.687-014	CELL PREPARER	2	1	1	UP	10	30 DAYS
		559.587-010	ROD-AND-TUBE STRAIGHTENER	2	1	1	UP	10	30 DAYS
		559.684-026	UTILITY WORKER, MOLDING	3	1	2	UP	10	90 DAYS
48.0702	FURNITURE MAKING	763.687-018	DISSTRESSER	2	1	2	UP	10	90 DAYS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M I	
49.0203	MATERIAL HANDLING	599.687-018	LEAD HANDLER	2	1 1	30 TO 90 DAYS
		911.667-014	HATCH TENDER	2	1 1	UP TO 30 DAYS
		911.687-010	BOAT-LOADER HELPER	2	1 1	UP TO 30 DAYS
		921.667-010	BOAT-HOIST-OPERATOR HELPER	1	1 1	UP TO 30 DAYS
		921.687-022	LOG LOADER HELPER	1	1 1	UP TO 30 DAYS
		922.587-010	PRIMING-MIXTURE CARRIER	2	1 2	UP TO 30 DAYS
		922.667-010	YARD WORKER, USED BUILDING MATERIAL	2	2 2	30 TO 90 DAYS
		922.687-058	LABORER, STORES	2	2 2	UP TO 30 DAYS
		929.687-014	KILN DRAWER	2	1 1	UP TO 30 DAYS
		929.687-022	LABORER, SALVAGE	2	1 1	UP TO 30 DAYS
49.0204	MINING EQUIPMENT OPERATION	930.687-018	CUTTER-OPERATOR HELPER	2	1 1	UP TO 30 DAYS
		933.687-010	GRIZZLY WORKER	1	1 1	UP TO 30 DAYS
		934.687-010	FOOT WORKER	2	1 1	UP TO 30 DAYS
		939.687-034	SAND FILLER	2	1 1	UP TO 30 DAYS
49.0306	MARINE MAINTENANCE	911.687-026	LINES TENDER	2	1 1	UP TO 30 DAYS
49.0308	SAILORS AND DECKHANDS	911.667-014	HATCH TENDER	2	1 1	UP TO 30 DAYS

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OCCUPATION: 9099

MILITARY OCCUPATIONS

These workers perform jobs that are essential to military operations but that do not have civilian counterparts. Examples of occupations that are unique to the military include infantry and artillery personnel, reconnaissance and intelligence personnel, camouflage specialists, and combat surveillance and target acquisition crewmembers. Occupations that are similar to civilian occupations are classified under their nonmilitary titles.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-
CODE	TITLE	CODE	TITLE	R M L TRAINING TIME

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OCCUPATION: 9100

MILITARY OCCUPATIONS

People in these jobs are involved in military operations activities for the armed services. Their duties range from training recruits in the basics of service life to operating military weapons and machinery during combat or in training. Most workers specialize in a particular field, such as field artillery, radar, military intelligence, or surveillance.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-		TRAINING TIME
CODE	TITLE	CODE	TITLE	R	M I	
00.0000	NO CIP ASSIGNED	378.132-010	FIELD ARTILLERY SENIOR SERGEANT	3	3 3	FOUR TO TEN YEARS
		378.137-010	INFANTRY UNIT LEADER	3	2 2	TWO TO FOUR YEARS
		378.161-010	COMBAT SURVEILLANCE AND TARGET ACQU	3	3 3	TWO TO FOUR YEARS
		378.227-010	MARKSMANSHIP INSTRUCTOR	3	2 3	THREE TO SIX MONTHS
		378.227-014	RECRUIT INSTRUCTOR	3	2 2	THREE TO SIX MONTHS
		378.227-018	SURVIVAL SPECIALIST	3	2 3	SIX TO 12 MONTHS
		378.267-010	COUNTERINTELLIGENCE AGENT	5	4 5	TWO TO FOUR YEARS
		378.267-014	DISASTER OR DAMAGE CONTROL SPECIALI	4	3 3	ONE TO TWO YEARS
		378.281-010	TARGET AIRCRAFT TECHNICIAN	3	3 2	ONE TO TWO YEARS
		378.362-010	SOUND RANGING CREWMEMBER	3	3 3	SIX TO 12 MONTHS
		378.363-010	ARMOR RECONNAISSANCE SPECIALIST	3	3 3	SIX TO 12 MONTHS
		378.367-010	ARTILLERY OR NAVAL GUNFIRE OBSERVER	3	3 2	THREE TO SIX MONTHS
		378.367-014	FIELD ARTILLERY OPERATIONS SPECIALI	4	4 3	SIX TO 12 MONTHS
		378.367-018	FLASH RANGING CREWMEMBER	4	4 3	SIX TO 12 MONTHS
		378.367-022	INFANTRY OPERATIONS SPECIALIST	4	4 4	ONE TO TWO YEARS
		378.367-026	OPERATIONS AND INTELLIGENCE ASSISIA	3	3 3	SIX TO 12 MONTHS
		378.367-030	RECONNAISSANCE CREWMEMBER	3	3 3	THREE TO SIX MONTHS
		378.382-010	AIRBORNE SENSOR SPECIALIST	3	3 3	ONE TO TWO YEARS
		378.382-014	DEFENSIVE FIRE CONTROL SYSTEMS OPER	3	2 3	TWO TO FOUR YEARS
		378.382-018	UNATTENDED-GROUND-SENSOR SPECIALIST	3	3 3	ONE TO TWO YEARS
		378.464-010	ANTI-TANK ASSAULT GUNNER	2	2 2	30 TO 90 DAYS
		378.663-010	VULCAN CREWMEMBER	2	1 1	30 TO 90 DAYS
		378.682-010	REDEYE GUNNER	3	3 3	30 TO 90 DAYS
		378.682-014	SMOKE AND FLAME SPECIALIST	3	2 2	THREE TO SIX MONTHS
		378.683-010	AMPHIBIAN CREWMEMBER	2	1 1	30 TO 90 DAYS
		378.683-014	POWERED BRIDGE SPECIALIST	3	3 3	SIX TO 12 MONTHS
		378.683-018	TANK CREWMEMBER	2	2 2	THREE TO SIX MONTHS
		378.684-010	CAMOUFLAGE SPECIALIST	2	2 2	THREE TO SIX MONTHS
		378.684-014	COMBAT RIFLE CREWMEMBER	2	1 1	30 TO 90 DAYS
		378.684-018	FIELD ARTILLERY CREWMEMBER	2	1 1	30 TO 90 DAYS
		378.684-022	INFANTRY INDIRECT FIRE CREWMEMBER	2	1 1	SIX TO 12 MONTHS
		378.684-026	INFANTRY WEAPONS CREWMEMBER	2	1 1	30 TO 90 DAYS
		378.684-030	LIGHT AIR DEFENSE ARTILLERY CREWMEM	2	1 1	30 TO 90 DAYS
		378.687-010	COMBAT SURVEILLANCE AND TARGET ACQU	2	2 2	UP TO 30 DAYS
		912.662-010	IN-FLIGHT REFUELING OPERATOR	4	3 3	ONE TO TWO YEARS

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OCCUPATION: 9100 MILITARY OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----	-----DICTIONARY OF OCCUPATIONAL TITLES-----	-GED-
CODE TITLE	CODE TITLE	R M L TRAINING TIME
	912.682-010 AIRCRAFT LAUNCH AND RECOVERY TECHNI	4 3 3 SIX TO 12 MONTHS

* HIGHER EDUCATION TRAINING PROGRAM: DOI-CIP RELATIONSHIP DETERMINED BY IOWA STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE. OTHER DOT-CIP RELATIONSHIPS WERE TAKEN FROM THE 1985 NOICC MASTER CROSSWALK

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OCCUPATION: 9900

MISCELLANEOUS OCCUPATIONS

People in these jobs perform work which cannot be classified under other SOC groups. GRADUATE ASSISTANTS assist a faculty or staff member in a college or university. SUPERVISORS direct the activities of workers in a government agency. CONSULTANTS advise clients on ways to solve problems in their specialty area. SCUBA DIVERS perform various underwater jobs, wearing diving gear.

-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GLD-	
CODE	TITLE	CODE	TITLE	R	M I TRAINING TIME
00.0000	NO CIP ASSIGNED	090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
		188.137-010	SUPERVISOR	4 3 3	TWO TO FOUR YEARS
		189.167-010	CONSULTANT	5 5 5	FOUR TO TEN YEARS
		379.384-010	SCUBA DIVER	3 2 2	THREE TO SIX MONTHS
13.1307	HEALTH EDUCATION	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
13.1310	MARKETING AND DISTRIBUTIVE EDUCATION	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
13.1319	TECHNICAL EDUCATION	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
13.1401	TEACHING ENGLISH AS A SECOND LANGUAGE/FO	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0101	FOREIGN LANGUAGES, MULTIPLE EMPHASIS	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0201	AFRICAN (NON-SEMITIC) LANGUAGES	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0301	CHINESE	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0302	JAPANESE	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0402	RUSSIAN	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0403	SLAVIC LANGUAGES (OTHER THAN RUSSIAN)	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0501	GERMAN	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0502	SCANDINAVIAN LANGUAGES	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0601	GREEK (CLASSICAL)	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0703	INDIC LANGUAGES	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0901	FRENCH	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0902	ITALIAN	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS

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OCCUPATION: 9900 MISCELLANEOUS OCCUPATIONS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	R M L TRAINING TIME
CODE	TITLE	CODE	TITLE		
16.0903	LATIN	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0904	PORTUGUESE	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.0905	SPANISH	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.1001	NATIVE AMERICAN LANGUAGES	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.1101	ARABIC	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
16.1102	HEBREW	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0101	ENGLISH, GENERAL	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0201	CLASSICS	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0301	COMPARATIVE LITERATURE	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0501	CREATIVE WRITING	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0601	LINGUISTICS (INCLUDES PHONETICS, SEMANTI	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0701	LITERATURE, AMERICAN	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.0801	LITERATURE, ENGLISH	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.1001	SPEECH, DEBATE, AND FORENSICS	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
23.1101	TECHNICAL AND BUSINESS WRITING	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
24.0101	LIBERAL ARTS AND SCIENCES	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
38.0101	PHILOSOPHY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
44.0401	PUBLIC ADMINISTRATION	*188.137-010	SUPERVISOR	4 3 3	TWO TO FOUR YEARS
45.0201	ANTHROPOLOGY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0301	ARCHEOLOGY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0302	ARCHAEOLOGICAL TECHNOLOGY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS

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-----CLASSIFICATION OF INSTRUCTIONAL PROGRAMS-----		-----DICTIONARY OF OCCUPATIONAL TITLES-----		-GED-	TRAINING TIME
CODE	TITLE	CODE	TITLE	R M I	
45.0401	CRIMINOLOGY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0501	DEMOGRAPHY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0601	ECONOMICS	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0701	GEOGRAPHY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0801	HISTORY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.0901	INTERNATIONAL RELATIONS	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.1001	POLITICAL SCIENCE AND GOVERNMENT	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.1101	SOCIOLOGY	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS
45.1201	URBAN STUDIES	*090.227-014	GRADUATE ASSISTANT	6 4 6	FOUR TO TEN YEARS

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TRAINING NEEDS ASSESSMENT GUIDE

(TNAG)

VOLUME II

APPENDICES A - R

APPENDICES

A. PROJECT RELATED CHECKLIST SHORT FORMS

Checklist for Diagnosing Project Participant Training Needs
Checklist for Determining Availability of Staff for Training
Checklist for Selection of Specific Candidates

B. SECTOR LABOR FORCE CHECKLIST SHORT FORMS

Checklist to Identify Macro Demand/Supply Information
Checklist to Analyze Demand/Supply Information

C. PROJECT PARTICIPANT TRAINING NEEDS FORM

D. DEFINING TASKS, OCCUPATIONS, AND TRAINING PROGRAMS

E. CLASSIFICATIONS OF OCCUPATIONS

F. CLASSIFICATION OF INSTRUCTIONAL PROGRAMS (CIP) SUMMARY

G. INDUSTRY/OCCUPATIONAL MATRIX

H. PRODUCTS OF DEMAND/SUPPLY ANALYSIS

I. TABULAR DEMAND/SUPPLY CHART

J. KEY INFORMANT LABOR MARKET REPORTING

K. SAMPLE UNIT OF ANALYSIS

L. REQUIREMENTS FOR LONG AND SHORT TERM STUDY IN THE USA

M. SUGGESTED TRAINING PROGRAM FOR USERS OF TNAG

N. WORKING PROBLEM, PROJECT RELATED TRAINING NEEDS ASSESSMENT

O. WORKING PROBLEM, SECTOR LABOR FORCE NEEDS ASSESSMENT

P. MATERIALS REVIEWED IN DEVELOPING TNAG

Q. WANG DISC CONTAINING CONTENTS OF TNAG

R. SAMPLE MISSION SCOPE OF WORK FOR CONTRACTOR IMPLEMENTATION OF THE TRAINING NEEDS ASSESSMENT

PROJECT RELATED CHECKLIST SHORT FORMS *

This Checklist focuses on identifying the need and availability of general occupational categories (e.g., engineers, accountants) to support project implementation and operation. Detailed information relating to each item on the checklist can be found in Section I of this Guide.

Checklist for Diagnosing Project Occupational Staffing Needs

1. Project Objectives: _____
2. Project Tasks: _____
3. Project Occupations and Training Programs: _____
 - a. Identification of Occupations: _____
 - b. Identification of Training Programs: _____
 - c. Numbers Determined: _____
 - d. Priority: _____
 - e. Training Time: _____
4. Training Criteria: _____

***Note:** This and other checklists can be found on the Wang disk located in Appendix Q. If you need more writing space to complete the entries, it is suggested that you copy these pages from the disk and edit to suit your needs.

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5. Time Line: _____

6. Manpower Planning: _____

Checklist for Determining Availability of Staff for Training

Has the Sponsoring Organization:

1. Accepted the Need for Change: _____

2. Targeted a List of Appropriate Trainees: _____

3. Assisted in the Collection and Analysis: _____

4. Jointly Developed the plan: _____

5. Authorized Absences to Attend Training: _____

6. Re-Entry: _____

7. Salary Costs: _____

Have USAID/Contractors:

1. Specified which Skills/Knowledge: _____

2. Numbers of Trained Personnel Required: _____

3. Type and Duration of Training: _____

a. Level: _____

b. Institutional Training Costs: _____

c. Length of Training Program: _____

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- 4. Funding:
 - A. Partially Financed:

USAID and the Sponsoring Organization

- 1. Costs and Contributions:
 - a. A.I.D. Contribution:
 - b. Sponsoring Organization Contribution:
- 2. Number of Qualified Participants:
- 3. Selection Criteria:
- 4. Time:
- 5. Developed Alternate Training Plans:

Checklist for Selection of Specific Individuals

- 1. English Language Competency:
 - a. Minimum A.I.D. Competency:
 - b. Minimum Institutions Competency:
 - c. A.I.D./Institution Competency Differences:
 - d. Insufficient English Competency:
 - e. Language Training:
- 2. Academic Credentials:
 - a. Skill Building:
 - b. Alternative Training:
- 3. Project Considerations:
 - a. Timing:

- 4. Host Government Restrictions: _____
 - a. Military Training: _____
 - b. Other Restrictions: _____

- 5. Personal Information : _____
 - a. Personal/Professional Skills: _____
 - b. Dependents: _____

- 6. Sponsor/Employer/Information:
 - a. Type and Length of Training: _____
 - b. Importance of Training: _____
 - c. Candidates Replacement: _____
 - d. Candidate Promotion: _____
 - e. Organizational Changes: _____
 - f. Employment: _____

- 7. Immigration Policies (IAP 66A Visa Application): _____

- 8. Health Requirements (Pre-Departure Medical Exam): _____

- 9. Training Program Documentation: _____
 - a. Project Imp. Order/Participant (PIO/P): _____
 - b. PIO/P Issuance: _____

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- c. Participant Training Budget Worksheet: _____
- d. Training Implementation Document: _____
- e. Pre-Departure Checklist: _____
- f. Arrival Cable Sent: _____
- g. Medical Certification Cable Sent: _____
- h. Conditions of Training Signed and Cable Sent: _____
- 10. Pre-departure Orientation Program
 - a. Returned Participants: _____
 - b. Cross Cultural Adaptation: _____
 - c. Orientation Programs: _____
 - d. Climate of Training Center: _____
 - e. Meetings with Returned Participants: _____
 - f. Program Changes: _____
- 11. Work Experience/Education
 - a. Prior Training: _____
 - b. Commitment to Goals: _____
 - c. Utilization of Skills: _____

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SECTOR LABOR FORCE CHECKLIST
SHORT FORMS

This Checklist has two parts/functions: (1) it is intended to assist A.I.D. officers to identify macro/broad occupational demand/supply information, then (2) it assists these individuals in undertaking a statistical or "hard data", and a narrative or "soft data", analysis of the information. Details of each item of the checklist are found in Section II of this Guide.

Checklist to Identify Macro Occupational Demand/Supply Information

1. Sources of current demand (employment) data
 - a. General Census of Population: _____
 - b. General Establishment Surveys: _____
 - c. Industry/Occupational (I/O) Matrix: _____
 - d. Sample Population Surveys: _____
 - e. Special Sector Statistics: _____
 - f. Key Informant Labor Market Reporting: _____
 - g. Country Economic Development Plan _____
 - h. Employment Service/Labor Exchange Operations: _____
2. Sources of Projected Occupational Demand Data
 - a. Industry Employment Projections: _____
 - b. Industrial/Occupational Matrix: _____
 - c. Occupational Openings and Growth: _____

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- d. Employment Service/Labor Exchange Projections: _____
- e. Employer Needs Surveys: _____
- f. Job Vacancy Studies: _____
- 3. Sources of Occupational Supply Data
Sources of Current Unemployment by Occupation
 - a. Unemployment Insurance: _____
 - b. Sample Population Surveys: _____
- 4. Entrants to Occupational Supply From Education and Training Programs
 - a. Completers and Leavers: _____
 - b. Follow-up Studies: _____
- 5. Other Sources of entrants to Occupational Supply
 - a. Institutional Registrants: _____
 - b. Re-entrants to the Labor Market: _____
 - c. Occupational Transfers: _____
 - d. Geographic Migration: _____
 - e. Work Permits/Work Cards: _____
 - f. Projected Supply: _____

Checklist to Analyze Occupational Demand/Supply

1. Statistical/Quantitative Analysis, Issues and Procedures

a. Information Classification Procedures: _____

b. Geographic Area Analysis: _____

c. Time Period Analysis: _____

d. Measurement Analysis: _____

2. Narrative/Qualitative Analysis, Issues and Procedures

a. Narrative Explanation of the Quantitative Supply Demand Information

i. Comparison of Data Within a Given Unit of Analysis: _____

ii. Comparison of Data Across Different Units of Analysis: _____

b. Occupational Characteristics that Relate Education and Training Programs to Occupational Entry

i. Labor Organizations/Unions: _____

ii. Occupational Demographics: _____

iii. Entry-Level methods of entry: _____

iv. Industrial Concentration: _____

v. Licensing/Certification and Registration: _____

vi. Education and Training Requirements: _____

- c. Occupational Characteristics that can be Used to Interpret or Qualify the Demand/Supply Relationship
 - i. Job Stability: _____
 - ii. Turnover/New Hires: _____
 - iii. Wages: _____
 - iv. Working Conditions, Physical Environment: _____

- d. Proxy (Substitute) Indicators of the Occupational Demand/Supply Relationship
 - i. Historical Placement Data: _____
 - ii. Ratio of Job Orders to Applicants at the Employment Service/Labor Exchange: _____
 - iii. Hard to Fill Job Openings: _____
 - iv. Emerging Occupations: _____
 - v. Industrial Growth Patterns: _____

PROJECT PARTICIPANT TRAINING NEEDS
(PPTN Form)

INSTRUCTIONS

NOTE: Complete one PPTN form for each project included in the Country Development Strategy Statement.

Introduction

The purpose of this form is to assist Project Staff to:

- o identify the skilled manpower which will be needed to accomplish the objectives identified for each project;
- o specify the number of individuals that will be needed in each skilled manpower category; and
- o specify the relative priority (i.e., importance) each skilled category plays in the accomplishment of each objective identified for the project.

Instructions

1. Identify the Program Sector for this project as specified in the CDSS (e.g., AGRICULTURE, HEALTH, etc.).
2. Fill in the Name of the Project as listed in the CDSS.
3. In the appropriate spaces on the left, list the main Objectives and Tasks required for the project.
4. In the appropriate spaces across the top, list the Skilled Manpower needs (i.e., occupations - ECONOMIST, ACCOUNTANT, DIESEL MECHANIC, etc.), and related Training Program (i.e., AGRICULTURAL ECONOMICS, ACCOUNTING & BOOKEEPING, HEAVY DUTY MECHANIC) that will be needed during the life of the project. See Appendix D for a discussion of this process.
5. In the appropriate squares on the grid, specify the relative priority and number for each skill in the accomplishment of that objective (see Priority Key A-B-C at the bottom of the page).
6. In the appropriate space at the bottom, indicate the total number of individuals, and the length of the training program in person months, that will be needed for each skilled manpower category.

PROJECT PARTICIPANT TRAINING NEEDS

FORM

Program Sector:
Agriculture

Project Name:
Food Systems

Objectives/Tasks	TNG. PROGRAM								
	Agri. Services (CIP 01.0502)	Agri. Engineering (CIP 14.0301)	Soil and Water Mech (CIP 01.0206)	Agri. Power Mechan (CIP 01.0204)	Plant Sciences (CIP 02.0401)	Adult Education (CIP 01-0502)	Soil Sciences (CIP 02.0501)	Construction Inspect (CIP 46.0403)	Construction Super (SOC 6311)
1. Improve Grain Storage - control pests - improve grain storage	A/3					A/1		A/4	
2. Improve Crop Production - use correct fertilizers correct planting techniques - maintain farm equipment -maintain irrigation equip.		B/2	A/12	B/10	A/3	A/2	A/4		
3. Improve Marketing of Crops - develop co-ops - improve food processing dev. transportation system - improve packaging		B/2			A/4	A/1			
4. Educate Rural Farmers -improve extension agent teaching skills.						B/9			
TOTAL NUMBER NEEDED	3	4	12	10	7	13	4	4	
ESTIMATED TRAINING TIME (Months)	3-6	48-120	1	12-24	48-120	24 48	48 120	24 48	

PRIORITY KEY

- A. Extremely Important over Project life to meet Objectives
- B. Necessary over Project life to achieve all Objectives
- C. Required over short term periods to achieve Objectives.

APPENDIX D

DEFINING TASKS, OCCUPATIONS AND TRAINING PROGRAMS

In order to define specific training requirements to support project and sector development activities a rather simple process can be used. This process is summarized on the previous PTTN form (Appendix C). The following comments provide additional detail, in narrative form, that may help the planner work through this process.

A. Define Sector, Project Goals and Objectives:

This is an essential point of departure for planning participant training. These should be as precise as possible, as illustrated in the previous sample PTTN form (Appendix C). This sample form defines the Program Sector as Agriculture, the project name as Food Systems and the four primary objectives as:

- i. Improve Grain Storage
- ii. Improve Crop Production
- iii. Improve Marketing of Crops
- iv. Educate Rural Farmers

B. Define Project Tasks: This step involves identifying detailed activities for each project objective. This step defines specific occupational skills required to implement the project. In short, PEOPLE, in specific occupational categories will complete project activities. In order to define these occupational requirements it is necessary to identify the specific TASKS individuals will be called upon to perform. As illustrated in the sample Project PTTN Form (Appendix C), several specific tasks have been defined for the "improve crop production" objective. These include:

- use correct fertilizer
- use correct planting techniques
- maintain farm tillage equipment
- maintain irrigation systems and equipment

The definition of tasks can be very detailed if desired. The following page contains a partial list of tasks for the occupation of "Farm Equipment Mechanic". Detailed tasks lists for most technical occupations are available from such sources as the Vocational Technical Education Consortium of States (VTECS), 795 Peachtree Street, N.E., Atlanta, Georgia, 30365 and could be purchased and adapted by Missions to help define project task requirements.

**SAMPLE TASK LIST FOR
FARM EQUIPMENT MECHANIC**

(Source, Vocational Technical Education Consortium of States)

Duty/Task

A. Assembling Equipment

- 01 Assemble primary tillage equipment
- 02 Assemble secondary tillage equipment
- 03 Assemble planting equipment
- 04 etc.

B. Perform Administrative Functions

- 01 Assign jobs
- 02 Complete initial service data on invoice
- 03 Complete service invoice
- 04 Complete work order
- 05 etc.

C. Service Bearings and Seals

- 01 Realign shaft and bearings
- 02 Replace dynamic seals
- 03 Replace plain bearings
- 04 etc.

D. Service Conveyance Systems

- 01 Adjust bar chains
- 02 Adjust belts
- 03 Adjust conveyors
- 04 Replace sprocket
- 05 etc.

etc.

C. Define Project Occupations: Occupations are made up of a number of related tasks that a person is called on to perform in a specific job. Defining project occupations serves two purposes. First, it can assist project staff in overall manpower planning since manpower demand/supply information is usually defined in occupational terms. Second, it can assist in defining training times and training programs, since these factors are also defined in occupational terms. The sample PTTN Project Form (Appendix C) lists occupations required to support the Food Systems Project including Farm Equipment Mechanic, Agronomist, etc.

Occupations can be selected in two ways. (1) If the Mission has access to VTECS task files, key words from "task list" can be directly related to specific occupations. Project occupations selected should be the ones that involve the greatest number of project tasks. (2) A more common approach, especially if the Mission does not have access to sources such as VTECS, is to select project occupations from reading the occupational definitions from one or several occupational classification systems. The occupations selected will be the ones that contain the most tasks defined in the previously completed Project task analysis. A sample occupational definition for Farm Equipment Mechanic from the U.S. Standard Occupational Classification (SOC), and the International Labor Organization Standard Classification (ISCO) follows. Appendix E contains more information on these classification systems and a complete listing of all occupational titles in the classifications.

Farm Equipment Mechanic

SOC Definition

SOC #6118: This unit group includes occupations involving repairing and maintaining the operating condition of farm field equipment and farm dairy equipment exclusive of engine mechanics. Engine mechanics are classified in SOC unit group #6111, 6112 and 6114. Note, this SOC occupational classification includes more detailed U.S. DOL classification titles of Farm Equipment Mechanic I and II, Farm Equipment Mechanic Apprentice, Sprinkler-irrigation-equipment Mechanic, Assembly Repairer, Greaser and Dairy Equipment Repairer.

ISOC Definition

ISOC 8-49-55: Services and repairs agricultural machinery, performs tasks similar to those of Machinery Mechanic general (ISOC 8-49-10) but specializes in servicing, adjusting, and repairing agricultural machines such as cultivating, planting, reaping, threshing, and baling machines.

- D. Define Training Times: This is a critical piece of information for Mission planning. Approximate training times have been established for most occupations in the U.S. These are directly related to specific occupational titles/definitions. The two best sources for this information are described below and samples are provided on the following page. Training times for specific occupations are also illustrated at the bottom of the sample PTTN form (Appendix C). These have been obtained from the first source listed below.

The first source is from tables available from the National Crosswalk Service Center of the National Occupational Information Coordinating Committee. You will note that the SOC occupation is given, with its corresponding DOT title which is more detailed and is the base for defining occupational training times in the U.S. It is recommended that Missions use the more general SOC occupational classification for their planning as opposed to the detailed DOL classification. Tables containing information on training times for all occupations have been developed for use in this guide by the National Crosswalk Center, 523 East 12 Street, Des Moines, Iowa, 50319.

The second sample is from one of the Career Information Delivery Systems (CIDS) used in all States in the U.S. These systems (which have hard copy and micro-computer delivery versions) contain: client administered occupational exploratory/guidance/selection questionnaires, occupational information including training times, related training program requirements, and information on institutions that provide this training. This information may be national (U.S.) in scope or particular to a specific State depending on which CIDS system is used. There are 12 models available to select from and a Mission can purchase a subscription to a CIDS service for an annual fee of from \$1 - \$3,000 per year.

SAMPLE TRAINING TIME INFORMATION

1. SOURCE ONE: NATIONAL CROSSWALK CENTER

(Note: This information is usually listed in tabular form, full occupational descriptions can be eliminated to make access to training time information faster)

SOC Occupational Title: Farm Equipment Mechanic, SOC #6118. This unit group includes occupations involving repairing and maintaining the operating condition of farm field equipment and farm dairy equipment exclusive of engine mechanics. Engine mechanics are classified in SOC unit group #6111, 6112 and 6114. Note, this SOC occupational classification includes more detailed U.S. DOL classification titles of Farm Equipment Mechanic I and II, Farm Equipment Mechanic Apprentice, Sprinkler-irrigation-equipment Mechanic, Assembly Repairer, Greaser and Dairy Equipment Repairer.

Training Time: Level 6 (12 to 24 months)

2. SOURCE TWO: A CAREER INFORMATION DELIVERY SYSTEM (CIDS)

Note: This information is usually presented in written narrative format (hard-copy or micro computer), the occupational classification used is the SOC or is directly related to the SOC.

CIDS Occupational Title: Farm Equipment Mechanic #61181. These people service and repair machinery, equipment, and vehicles used on farms to plant, tend, harvest, move, process, and store plant and animal products. This equipment includes tractors, harvesters, pumps, tillage equipment, trucks, balers and plows. They may use basic hand tools and use power tools or welding and testing equipment to do repair work. They spend much of their time repairing and adjusting equipment brought to a shop but may travel to farms to make emergency repairs.

Training: 12 to 24 months

E. Define Training Programs: The previously identified occupational training requirements can be directly related to training programs. This is accomplished by linking the occupations required for Project development with U.S. training program definitions. The sample PTTN Form (Appendix C) illustrates training program titles and names related to project occupations. While the definition of a given training program may vary between institutions there is one set of standard definitions that have been developed and are used throughout the U.S., called the Classification of Instructional Programs (CIP). These were developed by the National Occupational Information Coordinating Committee and the National Center for Educational Statistics (now called the Office of Educational Research and Improvement, Department of Education). Again, there are several approaches that can be used to link occupational titles with training program titles. These approaches are described below and samples for the first two approaches are contained on the following page.

First, the crosswalks provided by the National Crosswalk Service Center in Iowa, described in the previous point D, provide this information as well as approximations of the length of the training period. Standard CIP training program descriptions are used that relate directly to SOC and DOL occupational descriptions (the information on the PTTN form found in Appendix C has been derived from this source).

Second, the CIDS described in the previous point D also provide this information, as well as approximate training times. Again, SOC occupations are linked directly to CIP instructional program titles.

Third, if you do not have the above "crosswalk" information (which was provide within this guide) you can simply purchase a copy of the CIP (see information Appendix P), read the instructional program descriptions, and select the one you find fits your occupational training needs the best. This approach is not the best, the first source listed above would be much more useful.

SAMPLE TRAINING PROGRAM IDENTIFICATION

1. SOURCE ONE: NATIONAL CROSSWALK CENTER

(Note: this information is usually listed in tabular form, full occupational and instructional program descriptions can be eliminated to make access to information faster).

SOC Occupational Title: Farm Equipment Mechanic, SOC #6118

Training Time: Level 6 (12 to 24 months)

Training Program: Agricultural Power Machinery, CIP # 01.0204. An instructional program that prepares individuals to select, operate, service, maintain, and repair a variety of agricultural power units and agricultural machinery and equipment. Includes instruction in gas, diesel, and electric units, welding, refrigeration, and hydraulics and other power systems.

2. SOURCE TWO: A CAREER INFORMATION DELIVERY SYSTEM (CIDS)

Note: This information is usually presented in written narrative format either in hard-copy or on micro computer. Occupational codes are usually SOC and training codes are directly related to the CIP in not actually CIP codes.

CIDS Occupational Title: Farm Equipment Mechanic #61181

Training: 12 to 24 months

Education and Training Program: # 061 Agriculture General, or #278 Auto and Diesel Mechanics

061 Agriculture General: Programs prepare people to produce agricultural products, use and repair agricultural machinery, or manage a farm or ranch. Related programs offer specialties in teaching, extension work, sales, etc.

278 Automobile and Diesel Mechanics: Programs prepare people with mechanical skills for employment servicing and repairing autos, diesel trucks, farm equipment, or heavy equipment. Typical coursework includes; carburetion, machine shop, mathematics, hydraulics, welding, brakes, internal combustion engine theory, steering and suspension, standard and automatic transmissions, electrical components, and diesel fuel system repair.

- F. Identification of U.S. Training Institutions, While this is not a component of this TNAG it is the logical end product of the TNAG process. Once the PTTN form is complete, and project objective, tasks, occupations, training times, and training program titles have been identified it is relatively a simple matter to identify training institutions throughout the U.S. that provide this training and details about the institutions involved. This information can be obtained directly by accessing one of the previously described CIDS systems that contains national educational institutional information. A sample of the information provided from one of these systems, on one institution, follows. This information is usually provided in hard-copy or micro-computer versions.

CIDS Occupational Title: Farm Equipment Mechanic #61181

Training: 12 to 24 months

Education and Training Program: #061 Agriculture General, or #278 Auto and Diesel Mechanics

Training Institution Information: (Sample only, more institutions could be listed)

Central Community College (Hasting Campus)
P.O. Box 1024
Hasting, NB 68901
Ph (800) 742-7872

Type of School:

Technical Community College Enrollment: 4,009

School Schedule: Quarter (August, November, February)

Deadline for Admissions: Open

Admission Tests/Requirements: Pre-Test, Nursing
High School Transcript
Health Form

Application Fee: None

Tuition:

Resident: \$174/Qt.

Non-resident: \$201/Qt.

Housing:

Dormitories, Room and Board: \$36.75/Wk.

Programs and Awards

061: Agriculture General

665: Horticulture

145: Business Management

etc.

CLASSIFICATION OF OCCUPATIONS

Two Classifications of Occupations are included on the following pages, the U.S. Standard Occupational Classification (SOC - pages 2 through 18,) and the International Standard Classification of Occupations (ISCO - pages 19 through 36) from the International Labor Organization (ILO).

If the country you are in is already using the ISCO we recommend you use it in your information development activities. The ISCO is often used in countries where the ILO has been active in manpower planning and training.

If the country has not established or selected a standard occupational classification system, we recommend use of the U.S. SOC because: it is more up-to-date, it can be directly related to training programs and institutional information in the United States, and training times can be identified for SOC occupations (see Appendix D for a description of this process). Note: training times are actually derived from Dictionary of Occupational Titles (DOT) information. This latter occupational classification system is not directly discussed in the TNAG as it is very detailed and is not recommended for use overseas. Each SOC occupational title has listings of related DOT occupational titles for detailed definitional purposes.

If you do not already have the SOC or ISOC occupational classification systems at your Mission, they can be ordered using the information supplied in Appendix P. You may find them useful because the following pages contain only the titles of the occupations and not the detailed definitions.

A copy of the U.S. Standard Occupational Classification Manual, 1980 edition, is included as a part of the TNAG package.

U.S. DEPARTMENT OF COMMERCE
OFFICE OF FEDERAL STATISTICAL POLICY AND STANDARDS

STANDARD
OCCUPATIONAL
CLASSIFICATION
MANUAL

1980

Introduction

Purpose and Scope

The Standard Occupational Classification provides a mechanism for cross-referencing and aggregating occupation-related data collected by social and economic statistical reporting programs. The system is designed to maximize the analytical utility of statistics on labor force, employment, income, and other occupational data collected for a variety of purposes by various agencies of the United States Government, State agencies, professional associations, labor unions and private research organizations.

The Classification covers all occupations in which work is performed for pay or profit, including work performed in family-operated enterprises where direct remuneration may not be made to family members. This classification may be used to classify volunteers, but occupations unique to volunteer settings were not included in this edition.

The SOC provides a coding system and nomenclature for identifying and classifying occupations within a framework suitable for use in and out of government. However, because of the vast amount of occupational detail that was considered in developing such a system, and the wide variety of uses of occupational data, it was not possible to construct a system that will meet the specific needs of all organizations. The level of detail, for example, may not be sufficient for specialized analytical purposes or for internal organizational management requirements. In such cases, however, approaches can generally be taken that will not conflict with the general scheme of the system. (See section below on Using the Classification.)

It is recognized that the experience gained in using the system and the changes in the structure of occupations will necessitate periodic reviews. Users of the system are invited to propose changes which will be evaluated on the basis of the principles used in development of the system.

Principles of Classification

In developing the Classification the following principles were followed:

1. The classification should realistically reflect the current occupational structure of the United States.
2. An occupation should be classified on the basis of work performed. Skill level, training, education, licensing and credential requirements usually associated with job performance should be considered only when an inaccurate picture of the occupational structure would be presented without such consideration.
3. Place of work (industry) should be considered in classifying an occupation only when the work setting alters the nature of the work sufficiently to warrant separate classification. For example, cooks in private households and commercial settings were classified in different unit groups because work is significantly dissimilar in their respective work settings.
4. The occupations should be classified in homogeneous groups that can be defined so that the content of each group is well delineated.

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5. An occupation that combines two distinct activities should be classified in one group on the basis of the primary activity - the one that accounts for the major portion of the worker's time. However, in cases where one activity requires special skills that are crucial in carrying out the duties of the occupation (although not required for as much time as other activities), that activity should determine the classification of the occupation.
6. Each occupation should be assigned to only one group at the lowest level of the classification system (unit group).
7. Large size should not by itself be considered sufficient reason for separate identification of a group.
8. Small size should not be considered sufficient reason for excluding a group from separate identification, although size must be considered, or the system could become too large to be useful.
9. Supervisors should be identified separately from the workers they supervise wherever possible in keeping with the real structure of the world of work.
10. Apprentices and trainees should be classified with the occupations for which training is being taken.
11. Helpers should be identified separately when their work is such that they are not in training for the occupation they are providing help, or if their work is truly different.
12. The need for comparability to *International Standard Classification of Occupations* should be considered in developing the structure, but it should not be an overriding factor.

Structure of the Classification

The SOC is structured on a four-level system: division, major group, minor group, and unit group. Each level represents groupings in successively finer detail which enables users to tabulate or analyze data on different levels of aggregation. Residual categories are established, where necessary, at all levels to handle groups of occupations that do not warrant separate identification or do not fit into one of the specific groups.

Each group includes a listing of *Dictionary of Occupational Titles, Fourth Edition* (DOT) titles which are descriptive of the group. They are assigned to that group and only to that group. All base titles in the DOT are included in the classification. The titles shown in each group with a 9-digit code following them are from the DOT. Immediately following the title there may be a I, II, III, or IV; these numbers indicate that there is more than one occupation with the same title and industry designation. The first column of numbers, where there are two columns of numbers, is the code for the industry designation that the DOT uses to designate the "kind of industry or industries" where the job is found. It contains from one to four sets of three digit numbers. The titles of these industries may be found in Appendix A. The last column contains the nine-digit code corresponding to the title. These titles, codes, and industry codes are explained in the Introduction to the *Dictionary of Occupational Titles, Fourth Edition*.

Selected occupational titles from the 1970 Census of Population *Classified Index of Industries and Occupations* are also included in the groups. The Census titles were added to provide additional insight to the content of these groups. These titles have a single three digit number following it in a column near the center of the page. These codes are Census occupation codes and can be found in the above mentioned publication.

STANDARD OCCUPATIONAL CLASSIFICATION MANUAL

Using the Classification

Federal government agencies will be encouraged to use the SOC for collecting occupational data, planning occupational education and training programs, planning occupational research and analysis, planning and placement services, studying the mobility of workers, and related activities dealing with occupational statistics. State and local governments, business and labor organizations and research groups are encouraged to use it for statistical programs. Where the SOC detail is not sufficient for a specific use, subclasses should be developed that are compatible. Where conceptual compatibility cannot be maintained without causing program difficulties, cross-references should be made to the extent feasible.

In coding occupational data from surveys into the SOC, the 9-digit code of the *Dictionary of Occupational Titles, Fourth Edition (DOT)* can be used as an alternative to direct coding. Data coded to the DOT can be aggregated for publication in SOC format by using a conversion table. This procedure also allows analyses of data from other sources that have been coded to the DOT. A machine readable file will be made available for converting the DOT codes directly to SOC codes.

New or unique occupations that are not described or listed in the SOC should be classified in the group to which it is most similar.

The system allows tabulations to be made for special purposes of data from different unit groups. For example, college and university teachers are classified by subject matter taught, which allows teachers to be combined with subject matter specialists, i.e. college chemistry teachers and chemists.

Publication formats of occupational data should follow this structure for major tabular presentations, but recombinations such as mentioned above are encouraged for supplemental analysis.

For some presentations, especially of cross-tabulated data, a very abbreviated set of occupational classes may be needed. In order to provide for standardization of such abbreviated or aggregated groups, the following groupings are suggested:

1. Administrative, engineering, scientific, teaching, and related occupations, including creative artists (Major Groups 10-34);
2. Technical, clerical, sales, and related occupations (Major Groups 36-48);
3. Service occupations, including military occupations (Major Groups 50-53 and 91);
4. Farming, forestry, fishing, and hunting occupations (Major Groups 55-58);
5. Precision production, craft and repair (Major Groups 60-69);
6. Operators, fabricators and laborers (Major Groups 71-87).

**Numerical List of Titles
of Occupational Groups**

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STANDARD OCCUPATIONAL CLASSIFICATION MANUAL

Executive, Administrative and Managerial Occupations

11 OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION

111 LEGISLATORS

112 CHIEF EXECUTIVES AND GENERAL ADMINISTRATORS

113 OFFICIALS AND ADMINISTRATORS, GOVERNMENT AGENCIES

1131 Judicial, Public Safety and Corrections Administrators

1132 Human Resources Program Administrators

1133 Natural Resources Program Administrators

1134 Rural, Urban, and Community Development Program Administrators

1135 Public Finance, Taxation, and Other Monetary Program Administrators

1139 Officials and Administrators, Public Administration, Not Elsewhere Classified

12-13 OFFICIALS AND ADMINISTRATORS, OTHER

121 GENERAL MANAGERS AND OTHER TOP EXECUTIVES

122 FINANCIAL MANAGERS

123 PERSONNEL AND LABOR RELATIONS MANAGERS

124 PURCHASING MANAGERS

125 MANAGERS, MARKETING, ADVERTISING, AND PUBLIC RELATIONS

126 MANAGERS, ENGINEERING, MATHEMATICS, AND NATURAL SCIENCES

127 MANAGERS, SOCIAL SCIENCES AND RELATED FIELDS

128 ADMINISTRATORS, EDUCATION AND RELATED FIELDS

1281 Administrators, Colleges and Universities

1282 Administrators, Elementary and Secondary Education

1283 Administrators, Education and Related Fields, Not Elsewhere Classified

131 MANAGERS, MEDICINE AND HEALTH

132 PRODUCTION MANAGERS, INDUSTRIAL

133 CONSTRUCTION MANAGERS

134 PUBLIC UTILITIES MANAGERS

1341 Communications Operations Managers

1342 Transportation Facilities and Operations Managers

1343 Electricity, Gas, Water Supply, and Sanitary Services Managers

1344 Postmasters and Mail Superintendents

135 MANAGERS, SERVICE ORGANIZATIONS

1351 Managers, Food Serving and Lodging Establishments

1352 Managers, Entertainment and Recreation Facilities

1353 Managers, Property and Leasing

1354 Managers, Membership Organizations

1359 Managers, Service Organizations, Not Elsewhere Classified

136 MANAGERS, MINING, QUARRYING, WELL DRILLING, AND SIMILAR OPERATIONS

137 MANAGERS, ADMINISTRATIVE SERVICES

139 OFFICIALS AND ADMINISTRATORS, OTHER, NOT ELSEWHERE CLASSIFIED

14 MANAGEMENT RELATED OCCUPATIONS

141 ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS

1412 Accountants and Auditors

1414 Underwriters

1415 Loan Officers

1419 Other Financial Officers

142 MANAGEMENT ANALYSTS

143 PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS

144 PURCHASING AGENTS AND BUYERS

1442 Buyers, Wholesale and Retail Trade, except Farm Products

1443 Purchasing Agents and Buyers, Farm Products

1449 Purchasing Agents and Buyers, Not Elsewhere Classified

145 BUSINESS AND PROMOTION AGENTS

147 INSPECTORS AND COMPLIANCE OFFICERS

1472 Construction Inspectors

1473 Inspectors and Compliance Officers, except Construction

149 MANAGEMENT RELATED OCCUPATIONS, NOT ELSEWHERE CLASSIFIED

Engineers, Surveyors and Architects

16 ENGINEERS, SURVEYORS AND ARCHITECTS

161 ARCHITECTS

162-3 ENGINEERS

TITLES OF OCCUPATIONAL GROUPS

1622 Aerospace Engineers
1623 Metallurgical and Materials Engineers
1624 Mining Engineers
1625 Petroleum Engineers
1626 Chemical Engineers
1627 Nuclear Engineers
1628 Civil Engineers
1632 Agricultural Engineers
1633 Electrical and Electronic Engineers
1634 Industrial Engineers
1635 Mechanical Engineers
1636 Computer Engineers
1637 Marine Engineers and Naval Architects
1639 Engineers, Not Elsewhere Classified
164 SURVEYORS AND MAPPING SCIENTISTS
1643 Land Surveyors
1644 Cartographers
1649 Surveyors and Mapping Scientists, Not Elsewhere Classified

Natural Scientists and Mathematicians

17 COMPUTER, MATHEMATICAL, AND OPERATIONS RESEARCH OCCUPATIONS

171 COMPUTER SCIENTISTS
1712 Computer Systems Analysts
1719 Computer Scientists, Not Elsewhere Classified
172 OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS
1721 Operations Researchers and Analysts
1722 Systems Researchers and Analysts, Except Computer
173 MATHEMATICAL SCIENTISTS
1732 Actuaries
1733 Statisticians
1739 Mathematical Scientists, Not Elsewhere Classified

18 NATURAL SCIENTISTS

184 PHYSICAL SCIENTISTS
1842 Astronomers
1843 Physicists
1845 Chemists, Except Biochemists
1846 Atmospheric and Space Scientists
1847 Geologists
1849 Physical Scientists, Not Elsewhere Classified
185 LIFE SCIENTISTS
1852 Forestry and Conservation Scientists
1853 Agricultural and Food Scientists
1854 Biological Scientists
1855 Medical Scientists

Social Scientists, Social Workers, Religious Workers, and Lawyers

19 SOCIAL SCIENTISTS AND URBAN PLANNERS

191 SOCIAL SCIENTISTS
1912 Economists
1913 Historians
1914 Political Scientists
1915 Psychologists
1916 Sociologists
1919 Social Scientists, Not Elsewhere Classified
192 URBAN AND REGIONAL PLANNERS
20 SOCIAL, RECREATION, AND RELIGIOUS WORKERS
203 SOCIAL AND RECREATION WORKERS
2032 Social Workers
2033 Recreation Workers
204 RELIGIOUS WORKERS
2042 Clergy
2049 Religious Workers, Not Elsewhere Classified
21 LAWYERS AND JUDGES
211 LAWYERS
212 JUDGES

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Teachers, Librarians, and Counselors

22 TEACHERS; COLLEGE, UNIVERSITY AND OTHER POSTSECONDARY INSTITUTION

- 2212 Atmospheric, Earth, Marine, and Space Sciences Teachers
- 2213 Biological Sciences Teachers
- 2214 Chemistry Teachers
- 2215 Physics Teachers
- 2216 Natural Sciences Teachers, Not Elsewhere Classified
- 2217 Psychology Teachers
- 2218 Economics Teachers
- 2222 History Teachers
- 2223 Political Science Teachers
- 2224 Sociology Teachers
- 2225 Social Sciences Teachers, Not Elsewhere Classified
- 2226 Engineering Teachers
- 2227 Mathematical Sciences Teachers
- 2228 Computer Science Teachers
- 2231 Medical Science Teachers
- 2232 Health Specialties Teachers, Not Elsewhere Classified
- 2233 Business, Commerce and Marketing Teachers
- 2234 Agriculture Teachers
- 2235 Art, Drama, and Music Teachers
- 2236 Physical Education Teachers
- 2237 Education Teachers
- 2238 English Teachers
- 2242 Foreign Language Teachers
- 2243 Law Teachers
- 2244 Social Work Teachers
- 2245 Theology Teachers
- 2246 Trade and Industrial Teachers
- 2247 Home Economics Teachers
- 2249 Teachers, Postsecondary, Not Elsewhere Classified

23 TEACHERS, EXCEPT POSTSECONDARY INSTITUTION

231 PREKINDERGARTEN AND KINDERGARTEN TEACHERS

232 ELEMENTARY SCHOOL TEACHERS

233 SECONDARY SCHOOL TEACHERS

235 TEACHERS, SPECIAL EDUCATION

236 INSTRUCTIONAL COORDINATORS

239 ADULT EDUCATION AND OTHER TEACHERS, NOT ELSEWHERE CLASSIFIED

24 VOCATIONAL AND EDUCATIONAL COUNSELORS

25 LIBRARIANS, ARCHIVISTS, AND CURATORS

251 LIBRARIANS

252 ARCHIVISTS AND CURATORS

Health Diagnosing and Treating Practitioners

26 PHYSICIANS AND DENTISTS

261 PHYSICIANS

262 DENTISTS

27 VETERINARIANS

28 OTHER HEALTH DIAGNOSING AND TREATING PRACTITIONERS

281 OPTOMETRISTS

283 PODIATRISTS

289 HEALTH DIAGNOSING AND TREATING PRACTITIONERS, NOT ELSEWHERE CLASSIFIED

Registered Nurses, Pharmacists, Dietitians, Therapists, and Physician's Assistants

29 REGISTERED NURSES

30 PHARMACISTS, DIETITIANS, THERAPISTS, AND PHYSICIAN'S ASSISTANTS

301 PHARMACISTS

302 DIETITIANS

303 THERAPISTS

3031 Respiratory Therapists

3032 Occupational Therapists

3033 Physical Therapists

3034 Speech Pathologists and Audiologists

TITLES OF OCCUPATIONAL GROUPS

3039 Therapists, Not Elsewhere Classified
304 PHYSICIAN'S ASSISTANTS

Writers, Artists, Entertainers, and Athletes

32 WRITERS, ARTISTS, PERFORMERS, AND RELATED WORKERS
321 AUTHORS
322 DESIGNERS
323 MUSICIANS AND COMPOSERS
324 ACTORS AND DIRECTORS
325 PAINTERS, SCULPTORS, CRAFT-ARTISTS AND ARTIST-PRINTMAKERS
326 PHOTOGRAPHERS
327 DANCERS
328 PERFORMERS, NOT ELSEWHERE CLASSIFIED
329 WRITERS, ARTISTS, AND RELATED WORKERS; NOT ELSEWHERE CLASSIFIED
33 EDITORS, REPORTERS, PUBLIC RELATIONS SPECIALISTS, AND ANNOUNCERS
331 EDITORS AND REPORTERS
3312 Editors
3313 Reporters
332 PUBLIC RELATIONS SPECIALISTS AND PUBLICITY WRITERS
333 RADIO, TELEVISION AND OTHER ANNOUNCERS
34 ATHLETES AND RELATED WORKERS

Health Technologists and Technicians

36 HEALTH TECHNOLOGISTS AND TECHNICIANS
362 CLINICAL LABORATORY TECHNOLOGISTS AND TECHNICIANS
363 DENTAL HYGIENISTS
364 HEALTH RECORD TECHNOLOGISTS AND TECHNICIANS
365 RADIOLOGIC TECHNOLOGISTS AND TECHNICIANS
366 LICENSED PRACTICAL NURSES
369 HEALTH TECHNOLOGISTS AND TECHNICIANS, NOT ELSEWHERE CLASSIFIED

Technologists and Technicians, Except Health

37 ENGINEERING AND RELATED TECHNOLOGISTS AND TECHNICIANS
371 ENGINEERING TECHNOLOGISTS AND TECHNICIANS
3711 Electrical and Electronic Engineering Technologists and Technicians
3712 Industrial Engineering Technologists and Technicians
3713 Mechanical Engineering Technologists and Technicians
3719 Engineering Technologists and Technicians, Not Elsewhere Classified
372 DRAFTING OCCUPATIONS
373 SURVEYING AND MAPPING TECHNICIANS
3733 Surveying Technicians
3734 Cartographic Technicians
3739 Surveying and Mapping Technicians, Not Elsewhere Classified
38 SCIENCE TECHNOLOGISTS AND TECHNICIANS
382 BIOLOGICAL TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH
383 CHEMICAL AND NUCLEAR TECHNOLOGISTS AND TECHNICIANS
3831 Chemical Technologists and Technicians
3832 Nuclear Technologists and Technicians
3833 Petroleum Technologists and Technicians
384 MATHEMATICAL TECHNICIANS
389 SCIENCE TECHNOLOGISTS AND TECHNICIANS, NOT ELSEWHERE CLASSIFIED
39 TECHNICIANS; EXCEPT HEALTH, ENGINEERING, AND SCIENCE
392 AIR TRAFFIC CONTROLLERS
393 RADIO AND RELATED OPERATORS
396 LEGAL TECHNICIANS
397 PROGRAMERS
3971 Programers, Business
3972 Programers, Scientific
3974 Programers, Numerical, Tool and Process Control
398 TECHNICAL WRITERS
399 TECHNICIANS, NOT ELSEWHERE CLASSIFIED

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Marketing and Sales Occupations

40 SUPERVISORS; MARKETING AND SALES OCCUPATIONS

401 SUPERVISORS, SALES OCCUPATIONS, INSURANCE, REAL ESTATE, AND BUSINESS SERVICES

402 SUPERVISORS; SALES OCCUPATIONS, COMMODITIES EXCEPT RETAIL

403 SUPERVISORS, SALES OCCUPATIONS, RETAIL

41 INSURANCE, SECURITIES, REAL ESTATE, AND BUSINESS SERVICE SALES OCCUPATIONS

412 INSURANCE, REAL ESTATE, AND SECURITIES SALES OCCUPATIONS

4122 Insurance Sales Occupations

4123 Real Estate Sales Occupations

4124 Securities and Financial Services Sales Occupations

415 BUSINESS SERVICE SALES OCCUPATIONS

4152 Business Service, Except Advertising, Sales Occupations

4153 Advertising and Related Sales Occupations

42 SALES OCCUPATIONS, COMMODITIES EXCEPT RETAIL

421 SALES ENGINEERS

423 TECHNICAL SALES WORKERS AND SERVICE ADVISORS

4232 Technical Sales Workers, Aircraft

4233 Technical Sales Workers, Agricultural Equipment and Supplies

4234 Technical Sales Workers, Electronic Equipment

4235 Technical Sales Workers, Industrial Machinery, Equipment, and Supplies

4236 Technical Sales Workers, Medical and Dental Equipment and Supplies

4237 Technical Sales Workers, Chemicals and Chemical Products

4239 Technical Sales Workers, Not Elsewhere Classified

424 SALES REPRESENTATIVES

4242 Sales Representatives, Commercial and Industrial Equipment and Supplies

4243 Sales Representatives, Garments and Related Textile Products

4244 Sales Representatives, Motor Vehicles and Supplies

4245 Sales Representatives, Pulp, Paper, and Paper Products

4246 Sales Representatives, Farm Products and Livestock

4249 Sales Representatives, Not Elsewhere Classified

43 SALES OCCUPATIONS, RETAIL

434-5 SALESPERSONS, COMMODITIES

4342 Salespersons, Motor Vehicles, Mobile Homes, and Supplies

4343 Salespersons, Musical Instruments and Supplies

4344 Salespersons, Boats and Marine Equipment and Supplies

4345 Salespersons, Sporting Goods

4346 Salespersons, Garments and Textile Products

4347 Salespersons, Books, Stamps, Coins, and Stationery

4348 Salespersons, Furniture and Home Furnishings

4351 Salespersons, Shoes

4352 Salespersons, Radio, Television, High Fidelity, and Household Appliances

4353 Salespersons, Hardware

4354 Salespersons, Cosmetics, Toiletries, and Allied Products

4356 Salespersons, Jewelry and Related Products

4359 Salespersons, Not Elsewhere Classified

436 SALES OCCUPATIONS, OTHER

4362 Sales Clerks

4363 Counter Clerks

4364 Cashiers

4365 News Vendors

4366 Street Vendors, Door-to-door Sales Workers, and Related Occupations

4367 Salespersons, Parts

4369 Sales Occupations, Services, Not Elsewhere Classified

44 SALES RELATED OCCUPATIONS

444 APPRAISERS AND RELATED OCCUPATIONS

445 DEMONSTRATORS, PROMOTERS, AND MODELS

446 SHOPPERS

447 AUCTIONEERS

449 SALES OCCUPATIONS; OTHER, NOT ELSEWHERE CLASSIFIED

Administrative Support Occupations, including Clerical

45 SUPERVISORS; ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

4511 Supervisors, General Office Occupations

4512 Supervisors, Computer and Peripheral Equipment Operators

TITLES OF OCCUPATIONAL GROUPS

4513 Supervisors, Secretaries, Stenographers and Typists
4514 Supervisors, Information Clerks
4516 Supervisors, Correspondence Clerks and Order Clerks
4519 Supervisors, Record Clerks
4521 Supervisors, Financial Record Processing Occupations
4522 Supervisors, Duplicating, Mail and Other Office Machine Operators
4523 Chief Communications Operators
4524 Supervisors, Mail and Message Distribution Clerks
4525 Supervisors, Material Recording, Scheduling, and Distributing Clerks
4528 Supervisors, Adjusters, Investigators, and Collectors
4529 Supervisors, Miscellaneous Administrative Support Occupations
46-47 ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL
461 COMPUTER AND PERIPHERAL EQUIPMENT OPERATORS
4612 Computer Operators
4613 Peripheral Equipment Operators
462 SECRETARIES, STENOGRAPHERS AND TYPISTS
4622 Secretaries
4623 Stenographers
4624 Typists
463 GENERAL OFFICE OCCUPATIONS
464 INFORMATION CLERKS
4642 Interviewing Clerks
4643 Hotel Clerks
4644 Reservation Agents and Transportation Ticket Clerks
4645 Receptionists
4649 Information Clerks, Not Elsewhere Classified
466 CORRESPONDENCE CLERKS AND ORDER CLERKS
4662 Classified-ad Clerks
4663 Correspondence Clerks
4664 Order Clerks
469 RECORD CLERKS
4692 Personnel Clerks, Except Payroll and Timekeeping
4694 Library Clerks
4696 File Clerks
4699 Record Clerks, Not Elsewhere Classified
471 FINANCIAL RECORD PROCESSING OCCUPATIONS
4712 Bookkeepers and Accounting and Auditing Clerks
4713 Payroll and Timekeeping Clerks
4715 Billing Clerks
4716 Cost and Rate Clerks
4718 Billing, Posting, and Calculating Machine Operators
472 DUPLICATING, MAIL AND OTHER OFFICE MACHINE OPERATORS
4722 Duplicating Machine Operators
4723 Mail Preparing and Handling Machine Operators
4729 Office Machine Operators, Not Elsewhere Classified
473 COMMUNICATIONS EQUIPMENT OPERATORS
4732 Telephone Operators
4733 Telegraphers
4739 Communications Equipment Operators, Not Elsewhere Classified
474 MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS
4742 Postal Clerks, Except Mail Carriers
4743 Mail Carriers, Post Office
4744 Mail Clerks, Except Post Office
4745 Messengers
475 MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS
4751 Dispatchers
4752 Production and Planning Clerks
4753 Traffic, Shipping, and Receiving Clerks
4754 Stock and Inventory Clerks
4755 Meter Readers
4756 Weighers, Measurers, and Checkers
4757 Samplers
4758 Expeditors
4759 Material Recording, Scheduling, and Distributing Clerks, Not Elsewhere Classified
478 ADJUSTERS, INVESTIGATORS, AND COLLECTORS
4782 Insurance Adjusters, Examiners, and Investigators
4783 Investigators and Adjusters, Except Insurance
4784 Clerks, Social Welfare

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4786 Bill and Account Collectors
4787 License Clerks
479 MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL
4791 Bank Tellers
4792 Proof Readers
4793 Data Entry Keyers
4794 Statistical Clerks
4795 Teacher Aides
4799 Administrative Support Occupations, including Clerical, Not Elsewhere Classified

Service Occupations

50 PRIVATE HOUSEHOLD OCCUPATIONS

502 DAY WORKERS
503 LAUNDERERS AND IRONERS
504 COOKS, PRIVATE HOUSEHOLD
505 HOUSEKEEPERS AND BUTLERS
506 CHILD CARE WORKERS, PRIVATE HOUSEHOLD
507 PRIVATE HOUSEHOLD CLEANERS AND SERVANTS
509 PRIVATE HOUSEHOLD OCCUPATIONS, NOT ELSEWHERE CLASSIFIED

51 PROTECTIVE SERVICE OCCUPATIONS

511 SUPERVISORS, SERVICE OCCUPATIONS, PROTECTIVE

5111 Supervisors, Firefighting and Fire Prevention Occupations
5112 Supervisors, Police and Detectives
5113 Supervisors, Guards

512 FIREFIGHTING AND FIRE PREVENTION OCCUPATIONS

5122 Fire Inspection and Fire Prevention Occupations
5123 Firefighting Occupations

513 POLICE AND DETECTIVES

5132 Police and Detectives, Public Service
5133 Correctional Institution Officers
5134 Sheriffs, Bailiffs, and Other Law Enforcement Officers

514 GUARDS

5142 Crossing Guards
5144 Guards and Police, Except Public Service
5149 Protective Service Occupations, Not Elsewhere Classified

52 SERVICE OCCUPATIONS, EXCEPT PRIVATE HOUSEHOLD AND PROTECTIVE

521 FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS

5211 Supervisors, Food and Beverage Preparation and Service Occupations
5212 Bartenders
5213 Waiters and Waitresses
5214 Cooks, Except Short Order
5215 Short-order Cooks
5216 Food Counter, Fountain and Related Occupations
5217 Kitchen Workers, Food Preparation
5218 Waiters'/Waitresses' Assistants
5219 Miscellaneous Food and Beverage Preparation Occupations

523 HEALTH SERVICE OCCUPATIONS

5232 Dental Assistants
5233 Health Aides, Except Nursing
5236 Nursing Aides, Orderlies, and Attendants

524 CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT PRIVATE HOUSEHOLD

5241 Supervisors, Cleaning and Building Service Workers
5242 Maids and Housemen
5244 Janitors and Cleaners
5245 Elevator Operators
5246 Pest Control Occupations
5249 Cleaning and Building Service Occupations, Not Elsewhere Classified

525-6 PERSONAL SERVICE OCCUPATIONS

5251 Supervisors, Personal Service Occupations
5252 Barbers
5253 Hairdressers and Cosmetologists
5254 Attendants, Amusement and Recreation Facilities
5255 Guides
5256 Ushers
5257 Public Transportation Attendants
5258 Wardrobe and Dressing Room Attendants

5269 Personal Service Occupations, Not Elsewhere Classified

Agricultural, Forestry and Fishing Occupations

55 FARM OPERATORS AND MANAGERS

551 FARMERS (WORKING PROPRIETORS)

5512 General Farmers

5513 Crop, Vegetable, Fruit and Tree Nut Farmers

5514 Livestock, Dairy, Poultry and Fish Farmers

5515 Horticultural Specialty Farmers

552 FARM MANAGERS

5522 Managers, General Farm

5523 Managers, Crop, Vegetable, Fruit and Tree Nut Farm

5524 Managers, Livestock, Dairy, Poultry and Fish Farm

5525 Managers, Horticultural Specialty Farm

56 OTHER AGRICULTURAL AND RELATED OCCUPATIONS

561 FARM OCCUPATIONS, EXCEPT MANAGERIAL

5611 Supervisors, Farm Workers

5612 General Farm Workers

5613 Field Crop and Vegetable Farm Workers (Hand)

5614 Orchard and Vineyard and Related Workers (Hand)

5615 Irrigation Workers

5616 Farm Machinery Operators

5617 Livestock Workers

5618 Marine Life Cultivation Workers

5619 Nursery Workers

562 RELATED AGRICULTURAL OCCUPATIONS

5621 Supervisors, Related Agricultural Workers

5622 Groundskeepers and Gardeners, Except Farm

5624 Animal Caretakers, Except Farm

5625 Graders and Sorters, Agricultural Products

5627 Inspectors, Agricultural Products

57 FORESTRY AND LOGGING OCCUPATIONS

571 SUPERVISORS, FORESTRY AND LOGGING WORKERS

572 FORESTRY WORKERS, EXCEPT LOGGING

573 TIMBER CUTTING AND RELATED OCCUPATIONS

579 LOGGING OCCUPATIONS, NOT ELSEWHERE CLASSIFIED

58 FISHERS, HUNTERS, AND TRAPPERS

583 FISHERS

584 HUNTERS AND TRAPPERS

Mechanics and Repairers

60 SUPERVISORS; MECHANICS AND REPAIRERS

61 MECHANICS AND REPAIRERS

611 VEHICLE AND MOBILE EQUIPMENT MECHANICS AND REPAIRERS

6111 Automobile Mechanics

6112 Bus and Truck Engine, and Diesel Engine Mechanics

6113 Aircraft Engine Mechanics

6114 Small Engine Repairers

6115 Automotive Body and Related Repairers

6116 Aircraft Mechanics (Except Engine Specialists)

6117 Heavy Equipment Mechanics

6118 Farm Equipment Mechanics

613 INDUSTRIAL MACHINERY REPAIRERS *

614 MACHINERY MAINTENANCE OCCUPATIONS

615 ELECTRICAL AND ELECTRONIC EQUIPMENT REPAIRERS

6151 Communications Equipment Repairers

6152 Electric Motor, Transformer, and Related Repairers

6153 Electrical and Electronic Repairers, Commercial and Industrial Equipment

6154 Data Processing Equipment Repairers

6155 Electronic Repairers, Home-entertainment Equipment

6156 Household Appliance and Power Tool Repairers

6157 Telephone Line Installers and Repairers

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6158 Telephone Installers and Repairers
6159 Miscellaneous Electrical and Electronic Equipment Repairers
616 HEATING, AIR-CONDITIONING, AND REFRIGERATION MECHANICS
617 MISCELLANEOUS MECHANICS AND REPAIRERS
6171 Camera, Watch, and Other Precision Instrument Repairers
6172 Musical Instrument Repairers and Tuners
6173 Locksmiths and Safe Repairers
6174 Office Machine Repairers
6175 Mechanical Controls and Valve Repairers
6176 Elevator Installers and Repairers
6177 Riggers
6178 Millwrights
6179 Mechanics and Repairers, Not Elsewhere Classified

Construction and Extractive Occupations

63 SUPERVISORS, CONSTRUCTION AND EXTRACTIVE OCCUPATIONS
631 SUPERVISORS, CONSTRUCTION
6311 Supervisors, Overall Construction
6312 Supervisors, Brickmasons, Stonemasons, and Hard Tile Setters
6313 Supervisors, Carpenters and Related Workers
6314 Supervisors, Electricians and Power Transmission Installers
6315 Supervisors, Painters, Paperhangers, and Plasterers
6316 Supervisors, Plumbers and Pipefitters and Steamfitters
6318 Supervisors, Other Construction Trades
632 SUPERVISORS, EXTRACTIVE OCCUPATIONS
64 CONSTRUCTION TRADES
641 BRICKMASONS, STONEMASONS, AND HARD TILE SETTERS
6412 Brickmasons
6413 Stonemasons
6414 Tile Setters, Hard
642 CARPENTERS AND RELATED WORKERS
6422 Carpenters
6424 Drywall Installers
643 ELECTRICIANS AND POWER TRANSMISSION INSTALLERS
6432 Electricians
6433 Electrical Power Installers and Repairers
644 PAINTERS, PAPERHANGERS, AND PLASTERERS
6442 Painters (Construction and Maintenance)
6443 Paperhangers
6444 Plasterers
645 PLUMBERS, PIPEFITTERS AND STEAMFITTERS
646-7 OTHER CONSTRUCTION TRADES
6462 Carpet and Soft Tile Installers
6463 Concrete and Terrazzo Finishers
6464 Glaziers
6465 Insulation Workers
6466 Paving, Surfacing, and Tamping Equipment Operators
6467 Rail and Track Laying Equipment Operators
6468 Roofers
6472 Sheetmetal Duct Installers
6473 Structural Metal Workers
6474 Drillers, Earth
6475 Air Hammer Operators
6476 Pile Driving Operators
6479 Construction Trades, Not Elsewhere Classified
65 EXTRACTIVE OCCUPATIONS
652 DRILLERS, OIL WELL
653 EXPLOSIVE WORKERS
654 MINING MACHINE OPERATORS
656 EXTRACTIVE OCCUPATIONS, NOT ELSEWHERE CLASSIFIED

Precision Production Occupations

67 SUPERVISORS, PRECISION PRODUCTION OCCUPATIONS
68 PRECISION PRODUCTION OCCUPATIONS
681-2 PRECISION METAL WORKERS

TITLES OF OCCUPATIONAL GROUPS

6811 Tool and Die Makers
6812 Precision Assemblers (Metal)
6813 Machinists
6814 Boilermakers
6816 Precision Grinders, Filers, and Tool Sharpeners
6817 Patternmakers and Model Makers (Metal)
6821 Lay-out Workers
6822 Precision Hand Molders and Shapers (Jewelers)
6823 Engravers
6824 Sheet Metal Workers
6829 Miscellaneous Precision Metal Workers
683 PRECISION WOODWORKERS
6831 Patternmakers and Model Makers, Wood
6832 Cabinet Makers and Bench Carpenters
6835 Furniture Finishers
6839 Miscellaneous Precision Woodworkers
684 PRECISION PRINTING OCCUPATIONS
6841 Precision Typesetters
6842 Precision Lithographers and Photoengravers
6844 Bookbinders
6849 Miscellaneous Precision Printing Occupations
685 PRECISION TEXTILE, APPAREL AND FURNISHINGS WORKERS
6852 Tailors and Dressmakers, Hand
6853 Upholsterers
6854 Shoemakers and Leather Workers and Repairers
6855 Precision Laundering, Cleaning, and Dyeing Occupations
6856 Apparel and Fabric Patternmakers
6859 Miscellaneous Precision Apparel and Fabric Workers
686 PRECISION WORKERS, ASSORTED MATERIALS
6861 Precision Hand Molders and Shapers (Except Jewelers)
6862 Precision Patternmakers, Lay-out Workers and Cutters
6863 Detail Design Painters and Decorators
6864 Optical Goods Workers
6865 Dental Laboratory Technicians
6866 Gem and Diamond Working Occupations
6867 Precision Electrical and Electronic Equipment Assemblers
6868 Photographic Process Workers
6869 Miscellaneous Precision Workers, Not Elsewhere Classified
687 PRECISION FOOD PRODUCTION OCCUPATIONS
6871 Butchers and Meat Cutters
6872 Bakers
6873 Batchmakers (Candymakers, Cheesemakers, Etc.)
6879 Miscellaneous Precision Food Workers
688 PRECISION INSPECTORS, TESTERS, AND RELATED WORKERS
6881 Precision Inspectors, Testers, and Graders
6882 Precision Adjusters and Calibrators
69 PLANT AND SYSTEM OPERATORS
691 WATER AND SEWAGE TREATMENT PLANT OPERATORS
692 GAS PLANT OPERATORS
693 POWER PLANT OPERATORS
6931 Stationary Engineers
6932 Power Plant and Systems Operators, except Stationary Engineers
694 CHEMICAL PLANT OPERATORS
695 PETROLEUM PLANT OPERATORS
696 MISCELLANEOUS PLANT OR SYSTEM OPERATORS

Production Working Occupations

71 SUPERVISORS, PRODUCTION OCCUPATIONS
73-74 MACHINE SETUP OPERATORS
731-2 METALWORKING AND PLASTIC WORKING MACHINE SETUP OPERATORS
7312 Lathe and Turning Machine Setup Operators
7313 Milling and Planing Machine Setup Operators
7314 Punching and Shearing Machine Setup Operators
7315 Extruding and Drawing Machine Setup Operators
7316 Rolling Machine Setup Operators
7317 Press and Brake Machine Setup Operators
7318 Drilling and Boring Machine Setup Operators

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- 7319 Forging Machine Setup Operators
- 7322 Grinding, Abrading, Buffing, and Polishing Machine Setup Operators
- 7324 Lapping and Honing Machine Setup Operators
- 7326 Numerical Control Machine Setup Operators
- 7329 Miscellaneous Metalworking and Plastic Working Machine Setup Operators
- 733 METAL FABRICATING MACHINE SETUP OPERATORS
- 7332 Welding Machine Setup Operators
- 7333 Soldering and Brazing Machine Setup Operators
- 7339 Miscellaneous Fabricating Machine Setup Operators
- 734 METAL AND PLASTIC PROCESSING MACHINE SETUP OPERATORS
- 7342 Molding and Casting Machine Setup Operators
- 7343 Plating and Coating Machine Setup Operators
- 7344 Heating Equipment Setup Operators
- 7349 Miscellaneous Metal and Plastic Processing Machine Setup Operators
- 743 WOODWORKING MACHINE SETUP OPERATORS
- 7431 Lathe and Turning Machine Setup Operators
- 7432 Router and Planer Machine Setup Operators
- 7433 Sawing Machine Setup Operators
- 7434 Sanding Machine Setup Operators
- 7435 Shaping and Joining Machine Setup Operators
- 7439 Miscellaneous Woodworking Machine Setup Operators
- 744 PRINTING MACHINE SETUP OPERATORS
- 7443 Printing Press Setup Operators
- 7444 Photoengraving and Lithographing Machine Setup Operators
- 7449 Miscellaneous Printing Machine Setup Operators
- 745 TEXTILE MACHINE SETUP OPERATORS
- 7451 Winding and Twisting Machine Setup Operators
- 7452 Knitting and Weaving Machine Setup Operators
- 7459 Textile Machine Setup Operators, Not Elsewhere Classified
- 746-7 ASSORTED MATERIALS MACHINE SETUP OPERATORS
- 7462 Packaging and Filling Machine Setup Operators
- 7463 Extruding and Forming Machine Setup Operators
- 7467 Compressing and Compacting Machine Setup Operators
- 7472 Roasting and Baking Machine Setup Operators
- 7474 Folding Machine Setup Operators
- 7476 Still, Clarifying, and Precipitating Machine Setup Operators
- 7477 Crushing, Grinding and Polishing Machine Setup Operators
- 7478 Slicing and Cutting Machine Setup Operators
- 7479 Miscellaneous Machine Setup Operators
- 75-76 MACHINE OPERATORS AND TENDERS
- 751-2 METALWORKING AND PLASTIC WORKING MACHINE OPERATORS AND TENDERS
- 7512 Lathe and Turning Machine Operators and Tenders
- 7513 Milling and Planing Machine Operators and Tenders
- 7514 Punching and Shearing Machine Operators and Tenders
- 7515 Extruding and Drawing Machine Operators and Tenders
- 7516 Rolling Machine Operators and Tenders
- 7517 Press and Brake Machine Operators and Tenders
- 7518 Drilling and Boring Machine Operators and Tenders
- 7519 Forging Machine Operators and Tenders
- 7522 Grinding, Abrading, Buffing and Polishing Machine Operators and Tenders
- 7529 Miscellaneous Metalworking and Plastic Working Machine Operators and Tenders
- 753 METAL FABRICATING MACHINE OPERATORS AND TENDERS
- 7532 Welding Machine Operators and Tenders
- 7533 Soldering and Brazing Machine Operators and Tenders
- 7539 Miscellaneous Fabricating Machine Operators and Tenders
- 754 METAL AND PLASTIC PROCESSING MACHINE OPERATORS AND TENDERS
- 7542 Molding and Casting Machine Operators and Tenders
- 7543 Plating and Coating Machine Operators and Tenders
- 7544 Heating Equipment Operators and Tenders
- 7549 Miscellaneous Metal and Plastic Processing Machine Operators and Tenders
- 763 WOODWORKING MACHINE OPERATORS AND TENDERS
- 7631 Lathe and Turning Machine Operators and Tenders
- 7632 Router and Planer Machine Operators and Tenders
- 7633 Sawing Machine Operators and Tenders
- 7634 Sanding Machine Operators and Tenders
- 7635 Shaping and Joining Machine Operators and Tenders
- 7636 Nailing and Tacking Machine Operators and Tenders
- 7639 Miscellaneous Woodworking Machine Operators and Tenders
- 764 PRINTING MACHINE OPERATORS AND TENDERS

TITLES OF OCCUPATIONAL GROUPS

- 7642 Typesetting and Composing Machine Operators and Tenders
- 7643 Printing Machine Operators and Tenders
- 7644 Photoengraving and Lithographing Machine Operators and Tenders
- 7649 Printing Machine Operators and Tenders, Not Elsewhere Classified
- 765 TEXTILE, APPAREL AND FURNISHINGS MACHINE OPERATORS AND TENDERS**
- 7651 Winding and Twisting Machine Operators and Tenders
- 7652 Knitting and Weaving Machine Operators and Tenders
- 7654 Textile Cutting Machine Operators and Tenders
- 7655 Textile Sewing Machine Operators and Tenders
- 7656 Shoe Machine Operators and Tenders
- 7657 Pressing Machine Operators
- 7658 Laundering and Dry Cleaning Machine Operators and Tenders
- 7659 Miscellaneous Textile Machine Operators and Tenders
- 766-7 MACHINE OPERATORS AND TENDERS, ASSORTED MATERIALS**
- 7661 Cementing and Gluing Machine Operators and Tenders
- 7662 Packaging and Filling Machine Operators and Tenders
- 7663 Extruding and Forming Machine Operators and Tenders
- 7664 Mixing and Blending Machine Operators and Tenders
- 7665 Cooling and Freezing Equipment Operators and Tenders
- 7666 Separating and Filtering Machine Operators and Tenders
- 7667 Compressing and Compacting Machine Operators and Tenders
- 7668 Boiler Operators and Tenders (Low Pressure)
- 7669 Coating, Painting, and Spraying Machine Operators and Tenders
- 7671 Photographic Processing Machine Operators
- 7672 Roasting and Baking Machine Operators and Tenders
- 7673 Washing, Cleaning and Pickling Equipment Operators and Tenders
- 7674 Folding Machine Operators and Tenders
- 7675 Furnace, Kila, and Oven Operators and Tenders
- 7676 Still, Clarifier and Precipitator Operators and Tenders
- 7677 Crushing, Grinding and Polishing Machine Operators and Tenders
- 7678 Shearing and Cutting Machine Operators and Tenders
- 7679 Miscellaneous Machine Operators and Tenders, Not Elsewhere Classified
- 77 FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS**
- 771 WELDERS AND SOLDERERS**
- 7714 Welders And Cutters
- 7717 Solderers And Brazers
- 772 ASSEMBLERS**
- 774 FABRICATORS, NOT ELSEWHERE CLASSIFIED**
- 775 HAND WORKING OCCUPATIONS**
- 7752 Hand Sewing Occupations
- 7753 Hand Cutting And Trimming Occupations
- 7754 Hand Molding And Casting Occupations
- 7755 Hand Forming And Shaping Occupations
- 7756 Hand Painting, Coating And Decorating Occupations
- 7757 Hand Engraving And Printing Occupations
- 7758 Hand Grinding And Polishing Occupations
- 7759 Miscellaneous Hand Working Occupations
- 78 PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS**
- 782 PRODUCTION INSPECTORS, CHECKERS AND EXAMINERS**
- 783 PRODUCTION TESTERS**
- 784 PRODUCTION SAMPLERS AND WEIGHERS**
- 785 GRADERS AND SORTERS, EXCEPT AGRICULTURAL**
- 787 PRODUCTION EXPEDITERS**

Transportation and Material Moving Occupations

- 81 SUPERVISORS; TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS**
- 811 SUPERVISORS, MOTORIZED EQUIPMENT OPERATORS**
- 8111 Supervisors; Motor Vehicle Operators
- 8113 Railroad Conductors and Yardmasters
- 812 SUPERVISORS, MATERIAL MOVING EQUIPMENT OPERATORS**
- 82 TRANSPORTATION OCCUPATIONS**
- 821 MOTOR VEHICLE OPERATORS**
- 8212 Truck Drivers, Tractor-trailer
- 8213 Truck Drivers, Heavy
- 8214 Truck Drivers, Light (Including Delivery and Route Drivers)
- 8215 Bus Drivers
- 8216 Taxicab Drivers and Chauffeurs

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8218 Driver-Sales Workers
8219 Other Motor Transportation Occupations, Not Elsewhere Classified
823 RAIL TRANSPORTATION OCCUPATIONS
8232 Locomotive Operating Occupations
8233 Railroad Brake, Signal, and Switch Operators
8239 Rail Vehicle Operators, Not Elsewhere Classified
824 WATER TRANSPORTATION OCCUPATIONS
8241 Ship Captains and Mates
8242 Boat and Barge Operators
8243 Sailors and Deckhands
8244 Marine Engineers
8245 Bridge, Lock, and Lighthouse Tenders
825 AIRPLANE PILOTS AND NAVIGATORS
828 TRANSPORTATION INSPECTORS
83 MATERIAL MOVING OCCUPATIONS, EXCEPT TRANSPORTATION
831 MATERIAL MOVING EQUIPMENT OPERATORS
8312 Operating Engineers
8313 Longshore Equipment Operators
8314 Hoist and Winch Operators
8315 Crane and Tower Operators
8316 Excavating and Loading Machine Operators
8317 Grader, Dozer, and Scraper Operators
8318 Industrial Truck and Tractor Equipment Operators
8319 Miscellaneous Material Moving Equipment Operators

Handlers, Equipment Cleaners, Helpers and Laborers

85 SUPERVISORS; HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS
86 HELPERS
861 HELPERS; MACHINE OPERATORS AND TENDERS
8611 Helpers, Metalworking and Plastic Working Machine Operators and Tenders
8614 Helpers, Metal and Plastic Processing Machine Operators and Tenders
8615 Helpers; Woodworking Machine Operators and Tenders
8616 Helpers; Printing Machine Operators and Tenders
8617 Helpers, Textile, Apparel and Furnishings Machine Operators and Tenders
8618 Helpers; Machine Operators and Tenders, Assorted Materials
8619 Helpers, Precision Production Occupations and Setup Operators
862 HELPERS; FABRICATORS AND INSPECTORS
863 HELPERS; MECHANICS AND REPAIRERS
8632 Helpers; Vehicle and Mobile Equipment Mechanics and Repairers
8633 Helpers; Industrial Machinery Repairers
8635 Helpers; Electrical and Electronic Equipment Repairers
8637 Helpers; Miscellaneous Mechanics and Repairers
864 HELPERS; CONSTRUCTION TRADES
8641 Helpers; Brickmasons, Stonemasons, and Hard Tile Setters
8642 Helpers; Carpenters and Related Workers
8643 Helpers; Electricians and Power Transmission Installers
8644 Helpers; Painters, Paperhangers, and Plasterers
8645 Helpers; Plumbers, Pipefitters and Steamfitters
8646 Helpers; Surveyors
8648 Helpers; Other Construction Trades
865 HELPERS; EXTRACTIVE OCCUPATIONS
87 HANDLERS, EQUIPMENT CLEANERS AND LABORERS
871 CONSTRUCTION LABORERS
872 FREIGHT, STOCK, AND MATERIAL MOVERS; HAND
8722 Garbage Collectors
8723 Stevedores
8724 Stock Handlers and Baggers
8725 Machine Feeders and Offbearers
8726 Freight, Stock, and Material Movers, Not Elsewhere Classified
873 GARAGE AND SERVICE STATION RELATED OCCUPATIONS
874 PARKING LOT ATTENDANTS
875 VEHICLE WASHERS AND EQUIPMENT CLEANERS
876 MISCELLANEOUS MANUAL OCCUPATIONS
8761 Hand Packers and Packagers
8769 Manual Occupations, Not Elsewhere Classified

INTERNATIONAL LABOUR OFFICE

**INTERNATIONAL
STANDARD CLASSIFICATION
OF OCCUPATIONS**

REVISED EDITION 1968



GENEVA

INTRODUCTION

STRUCTURE AND USES OF THE CLASSIFICATION

The International Standard Classification of Occupations (ISCO) provides a systematic classification structure covering the occupations of the whole civilian working population. The classification structure has four levels, providing successively finer detail, as follows: major groups (8), minor groups (83), unit groups (284) and occupational categories (1,506). The classification system is completed by definitions given for each of the 1,881 titles.

The decimal method of coding adopted in this system identifies each class into which a coded and defined occupational category fits; for example "typist" is found in major group 3—*Clerical and related workers*; minor group 3-2—*Stenographers, typists and card- and tape-punching machine operators*; in unit group 3-21—*Stenographers, typists and teletypists*; and in occupational category 3-21.40—*Typist*.

The major groups comprising ISCO, together with the supplementary major category (without a code number) to cover Armed Forces, are as follows:

Code No.	Title
0/1	Professional, Technical and Related Workers.
2	Administrative and Managerial Workers.
3	Clerical and Related Workers.
4	Sales Workers.
5	Service Workers.
6	Agricultural, Animal Husbandry and Forestry Workers, Fishermen and Hunters.
7/8/9	Production and Related Workers, Transport Equipment Operators and Labourers.
X	Workers Not Classifiable by Occupation.
-	Armed Forces.

A list of major, minor and unit group titles follows this Introduction. The full list of titles classified in code order is given towards the end of the volume.

Use as an International Statistical Standard

The major, minor and unit groups constitute the classification of occupations approved by the Eleventh International Conference of Labour Statisticians (Geneva, 1966) as an international standard for statistical purposes.

The objectives which this statistical standard has been designed to serve are—(a) to provide a model for countries developing or revising national classifications for use in the 1970 round of population censuses and in other statistical compilations of occupational

data; (b) to promote the international comparability of statistics; (c) to provide a standard list of occupational groups for international uses, including the exchange of occupational data between countries and the reporting of national occupational data for international publications. In the latter connection, it is specified in "Principles and Recommendations for the 1970 Population Censuses"¹ that each country should report population census data classified according to at least the minor groups of ISCO.

Other Uses of ISCO

Since, in addition to providing summary or "statistical" classifications in the form of minor and unit groups, ISCO classifies civilian occupations in considerable detail—i.e. in over 1,500 separate categories (referred to below as "occupations" or "five-digit" coded groups)—the ISCO system can be used for various other international purposes. For instance it can serve to identify in different countries comparable occupational categories in connection with programmes of international migration of workers or international programmes of vocational training. In general, since ISCO contains definitions of all its component categories, the ISCO system serves to facilitate communications between governments, or between persons in different countries, each party being able to use it as a common basis of reference.

Development of National Classifications

Some countries, particularly among those in the early stages of economic development, do not yet have their own occupational classification system. Some use, with or without adaptation, the classification of another country, or have attempted to use ISCO. This is not satisfactory, as a rule, since each country needs a classification adapted to its own particular situation and requirements. A national classification should distinguish separately all occupations of significant importance in the country. Such occupations will frequently be concealed in a broader category in an international classification such as ISCO.

In many cases, in developed as well as in developing countries, the classifications at present in use are inefficient because they consist solely of a list of selected occupational titles, with code numbers but without definitions of the scope of each title. There is much room for error in applying such classifications as the user is frequently uncertain where to classify particular occupations.

ISCO can serve as a very useful starting point in constructing national classification systems. Each ISCO group, its definition and title can be examined and compared with available or specially collected information relating to the functions, duties and tasks of the relevant jobs in the country concerned. In most cases it will be possible to develop in this way a satisfactory national occupational classification system comprising a systematic structure of titles and codes with national definitions of the different titles. A considerable amount of work is necessary, but several objectives can be pursued simultaneously—namely to produce a standard national classification adapted to statistical applications, which is

¹ United Nations: Statistical Papers, Series M, No. 44 (New York, 1967).

also readily convertible to ISCO, and to develop one or more detailed classifications consistent with the standard national occupational classification system but specifically adapted to the needs of the national employment placement service and of other public agencies in the country.

In the great majority of cases it should be possible to match the ISCO occupational definitions with national occupational categories which relate to corresponding segments of work, in any case as regards most of the elements of the work performed. The correspondence between ISCO and a particular national occupational structure will be very close in respect of some occupational groups, the type of work performed in the country concerned being almost identical to the descriptions given in the definitions of the relevant ISCO groups. In other cases, since each national occupational structure has its own special characteristics, related to such factors as natural environment (climate, etc.), natural resources exploited, level of economic development, technology and capital equipment employed and work organisation in different enterprises, only the principal tasks performed, or the majority of them, may match those defined in the relevant ISCO groups.

It is recognised that for certain purposes, some ISCO five-digit occupations may need to be split into two or more separate categories in a national classification. In particular, some occupations are included in residual groups of ISCO but are of special importance in the national economy and may have to be listed as separate items. Conversely, some ISCO occupational categories are very restricted in scope and refer to specialisations which are non-existent, or virtually non-existent, in some countries (e.g. 0-12.80—*Nuclear physicist*; 0-42.40—*Ship pilot*; 6-22.50—*Rice farm worker*). In such cases, the occupation may be conveniently placed in a residual group in a national classification, if desired.

In order that ISCO can serve the purposes outlined above, an effort is called for on the part of all countries to ensure that, at least in their principal national classification, occupational groups which correspond as closely as possible with those of the international system can be identified. This does not mean that countries should actually adopt ISCO for direct use; the main aim, convertibility, will be achieved in a very large measure if occupational groups in the national classification can be rearranged to conform with ISCO groups, or with combinations of two or more ISCO groups. When revising national occupational classifications, countries will have the opportunity of improving convertibility between their national classification and ISCO.

BASIS OF CLASSIFICATION OF OCCUPATIONS

The basic principle of classification according to type of work performed is applied in ISCO for grouping occupations, but the interpretation to be placed on similarity in type of work performed depends on the particular occupational field considered. In practice, the principle is easier to apply at the level of occupations than at the unit group or minor group level. The major groups represent very broad fields of work rather than specific types of work performed.

Minor Groups

As a rule, separate minor groups are provided only where a relatively large number of workers are involved and, consequently, in most cases these groups also cover a broad

range of occupations. There are 83 minor groups in the revised edition of ISCO compared with 73 in the first edition, the increase being accounted for mainly by some expansion of detail in major groups 0/1, 3, 4 and 5.

Since the whole range of vocational activities of civilian workers, whether in an industrialised or in a developing economy, is covered by the 83 minor groups of ISCO, the common occupational characteristics which link together the different unit groups within a minor group are frequently of a broad or general nature. In addition, the minor groups have been designed to reflect, in large measure, the conventional broad groupings which are typical of classifications in current use for statistical purposes, including censuses of the population.

Unit Groups

The remarks above also apply, to a large extent, to the unit groups, since the whole range of occupations is covered in 284 groups. Nevertheless, a good number of unit groups have a relatively narrow scope, especially in major group 0/1—*Professional, Technical and Related Workers*. Refinement of the unit groups, which numbered only 201 in the first edition, has been an important feature in the revision of ISCO (see below: Notes on Characteristics of Particular Occupational Groups). To obtain an adequate analysis of the occupational make-up of a well-developed economy (even when cross-classifications are made according to branch of economic activity) requires classification of workers at least in the detail of the unit groups.

A unit group in ISCO is a group of occupations related to each other by similarity of the characteristics of the work they entail. It therefore has a certain homogeneity and the occupations it covers are more closely related to one another than to occupations classified in other unit groups. Where a minor group contains a residual unit group, the latter as a rule does not exhibit to the same degree as the other unit groups the characteristics of homogeneity and of similarity of work performed in the different occupations comprising the group.

At the unit group level of subdivision the close relationship between types of work performed in the component occupations is reflected in different ways. For example, in the fields of the physical sciences and life sciences, occupations concerned with the same basic subject-matter have been brought together, as in the cases of *Chemists* (0-11), *Physicists* (0-12), *Biologists, zoologists and related scientists* (0-51), and *Agronomists and related scientists* (0-53). On the other hand, all physical science occupations at the technician level are grouped together in one unit group on the view that the kind of work performed is much the same and distinction by subject-matter is unnecessary. Life science technicians are similarly grouped. The same applies to teaching occupations, which are distinguished by level (university, secondary, etc.) and not by subject-matter, for purposes of unit groups.

Some unit groups, such as 0-41—*Aircraft pilots, navigators and flight engineers*, comprise the occupations of workers who work together and whose functions are complementary. In forming unit groups, various other criteria have been employed in the application of the basic principle of classification according to work performed, for instance executing similar processes (e.g. 7-28—*Metal platers and coaters*); operating similar equipment (e.g. 7-43—*Filter and separator operators*; 9-85—*Motor vehicle drivers*); performing

similar services (e.g. 5-32—*Waiters, bartenders and related workers*); fabricating and repairing similar articles (e.g. 8-42—*Watch, clock and precision-instrument makers*).

The unit groups are intended for practical use and therefore account must be taken of the limitations imposed by practical procedures of data collection in censuses and many other types of inquiries. In this connection it should be noted that the information available concerning workers to be classified very frequently does not cover such characteristics as work experience, vocational training, level of performance and supervisory responsibilities in present job, and level of formal education. However, experience has shown that there are large variations in these respects, as well as in others, among workers who are clearly performing the same or a closely related type of work and therefore should be classified in the same occupational group.

Occupations

An "occupation", for purposes of ISCO, is the narrowest occupational category (i.e. the smallest segment of work) which is specifically identified in the classification system. Each occupation has a five-digit code number, a title and a definition which describes the general functions and the principal duties and tasks of the workers classified under the title and code number concerned.

These definitions identify a type of work but not specifically the individual worker. The definition of an occupation covers various "jobs" or "positions" which are held by individual workers who perform one or another of the different possible combinations of the tasks described. Workers whose principal tasks are identical may be considered as having the same type of "job", but the workers in a particular establishment may be further subdivided according to "positions" for purposes such as fixing individual rates of remuneration within the common scale for the job. "Positions" are distinguished from one another by minor differences in duties, level of responsibility for supervision and other particularities of the work to be performed. The management and supervisory staff of the individual enterprise decide, within certain limitations of a technical or legal or contractual nature, how tasks are to be distributed among its workers, i.e. determine the division of labour. Consequently, classification according to "job" or "position" is a matter for the particular enterprise and goes beyond the scope of a classification according to occupation.

The number of occupations identified, coded and defined in the revised ISCO, namely 1,506, is somewhat greater than in the first edition (1,345) because some occupations which were formerly covered in residual categories have now been distinguished separately and certain other categories have been subdivided. In particular, to meet widely felt needs, more detailed classifications have been provided for teachers and agricultural workers, while subsidiary titles appearing in the first edition (e.g. under "sheet metal worker") have now been given separate code numbers, and new categories have been introduced for certain types of supervisors and for general foremen.

As mentioned earlier, a particular country may find it useful to refine further the list of occupations given in ISCO. However, there are limits to the usefulness of providing further detail in an international classification since it must retain sufficient flexibility to be able to lend itself to the different circumstances in the various countries. In addition, ISCO is not intended to replace national classifications which may need to reflect specific national requirements.

MAJOR, MINOR AND UNIT GROUPS

Major Group 0/1: Professional, Technical and Related Workers

- 0-1 Physical Scientists and Related Technicians
 - 0-11 Chemists
 - 0-12 Physicists
 - 0-13 Physical scientists not elsewhere classified
 - 0-14 Physical science technicians
- 0-2/0-3 Architects, Engineers and Related Technicians
 - 0-21 Architects and town planners
 - 0-22 Civil engineers
 - 0-23 Electrical and electronics engineers
 - 0-24 Mechanical engineers
 - 0-25 Chemical engineers
 - 0-26 Metallurgists
 - 0-27 Mining engineers
 - 0-28 Industrial engineers
 - 0-29 Engineers not elsewhere classified
 - 0-31 Surveyors
 - 0-32 Draughtsmen
 - 0-33 Civil engineering technicians
 - 0-34 Electrical and electronics engineering technicians
 - 0-35 Mechanical engineering technicians
 - 0-36 Chemical engineering technicians
 - 0-37 Metallurgical technicians
 - 0-38 Mining technicians
 - 0-39 Engineering technicians not elsewhere classified
- 0-4 Aircraft and Ships' Officers
 - 0-41 Aircraft pilots, navigators and flight engineers
 - 0-42 Ships' deck officers and pilots
 - 0-43 Ships' engineers
- 0-5 Life Scientists and Related Technicians
 - 0-51 Biologists, zoologists and related scientists
 - 0-52 Bacteriologists, pharmacologists and related scientists
 - 0-53 Agronomists and related scientists
 - 0-54 Life sciences technicians
- 0-6/0-7 Medical, Dental, Veterinary and Related Workers
 - 0-61 Medical doctors
 - 0-62 Medical assistants
 - 0-63 Dentists
 - 0-64 Dental assistants
 - 0-65 Veterinarians

MAJOR, MINOR AND UNIT GROUPS

- 0-66 Veterinary assistants
- 0-67 Pharmacists
- 0-68 Pharmaceutical assistants
- 0-69 Dietitians and public health nutritionists
- 0-71 Professional nurses
- 0-72 Nursing personnel not elsewhere classified
- 0-73 Professional midwives
- 0-74 Midwifery personnel not elsewhere classified
- 0-75 Optometrists and opticians
- 0-76 Physiotherapists and occupational therapists
- 0-77 Medical X-ray technicians
- 0-79 Medical, dental, veterinary and related workers not elsewhere classified
- 0-8 Statisticians, Mathematicians, Systems Analysts and Related Technicians
 - 0-81 Statisticians
 - 0-82 Mathematicians and actuaries
 - 0-83 Systems analysts
 - 0-84 Statistical and mathematical technicians
- 0-9 Economists
 - 0-90 Economists
- 1-1 Accountants
 - 1-10 Accountants
- 1-2 Jurists
 - 1-21 Lawyers
 - 1-22 Judges
 - 1-29 Jurists not elsewhere classified
- 1-3 Teachers
 - 1-31 University and higher education teachers
 - 1-32 Secondary education teachers
 - 1-33 Primary education teachers
 - 1-34 Pre-primary education teachers
 - 1-35 Special education teachers
 - 1-39 Teachers not elsewhere classified
- 1-4 Workers in Religion
 - 1-41 Ministers of religion and related members of religious orders
 - 1-49 Workers in religion not elsewhere classified
- 1-5 Authors, Journalists and Related Writers
 - 1-51 Authors and critics
 - 1-59 Authors, journalists and related writers not elsewhere classified
- 1-6 Sculptors, Painters, Photographers and Related Creative Artists
 - 1-61 Sculptors, painters and related artists
 - 1-62 Commercial artists and designers
 - 1-63 Photographers and cameramen
- 1-7 Composers and Performing Artists
 - 1-71 Composers, musicians and singers
 - 1-72 Choreographers and dancers
 - 1-73 Actors and stage directors
 - 1-74 Producers, performing arts
 - 1-75 Circus performers
 - 1-79 Performing artists not elsewhere classified

- 1-8 Athletes, Sportsmen and Related Workers
 - 1-80 Athletes, sportsmen and related workers
- 1-9 Professional, Technical and Related Workers Not Elsewhere Classified
 - 1-91 Librarians, archivists and curators
 - 1-92 Sociologists, anthropologists and related scientists
 - 1-93 Social workers
 - 1-94 Personnel and occupational specialists
 - 1-95 Philologists, translators and interpreters
 - 1-99 Other professional, technical and related workers

Major Group 2: Administrative and Managerial Workers

- 2-0 Legislative Officials and Government Administrators
 - 2-01 Legislative officials
 - 2-02 Government administrators
- 2-1 Managers
 - 2-11 General managers
 - 2-12 Production managers (except farm)
 - 2-19 Managers not elsewhere classified

Major Group 3: Clerical and Related Workers

- 3-0 Clerical Supervisors
 - 3-00 Clerical supervisors
- 3-1 Government Executive Officials
 - 3-10 Government executive officials
- 3-2 Stenographers, Typists and Card- and Tape-Punching Machine Operators
 - 3-21 Stenographers, typists and teletypists
 - 3-22 Card- and tape-punching machine operators
- 3-3 Bookkeepers, Cashiers and Related Workers
 - 3-31 Bookkeepers and cashiers
 - 3-39 Bookkeepers, cashiers and related workers not elsewhere classified
- 3-4 Computing Machine Operators
 - 3-41 Bookkeeping and calculating machine operators
 - 3-42 Automatic data-processing machine operators
- 3-5 Transport and Communications Supervisors
 - 3-51 Railway station masters
 - 3-52 Postmasters
 - 3-59 Transport and communications supervisors not elsewhere classified
- 3-6 Transport Conductors
 - 3-60 Transport conductors
- 3-7 Mail Distribution Clerks
 - 3-70 Mail distribution clerks
- 3-8 Telephone and Telegraph Operators
 - 3-80 Telephone and telegraph operators

3-9 Clerical and Related Workers Not Elsewhere Classified

- 3-91 Stock clerks
- 3-92 Material and production planning clerks
- 3-93 Correspondence and reporting clerks
- 3-94 Receptionists and travel agency clerks
- 3-95 Library and filing clerks
- 3-99 Clerks not elsewhere classified

Major Group 4: Sales Workers

4-0 Managers (Wholesale and Retail Trade)

- 4-00 Managers (wholesale and retail trade)

4-1 Working Proprietors (Wholesale and Retail Trade)

- 4-10 Working proprietors (wholesale and retail trade)

4-2 Sales Supervisors and Buyers

- 4-21 Sales supervisors
- 4-22 Buyers

4-3 Technical Salesmen, Commercial Travellers and Manufacturers' Agents

- 4-31 Technical salesmen and service advisers
- 4-32 Commercial travellers and manufacturers' agents

4-4 Insurance, Real Estate, Securities and Business Services Salesmen and Auctioneers

- 4-41 Insurance, real estate and securities salesmen
- 4-42 Business services salesmen
- 4-43 Auctioneers

4-5 Salesmen, Shop Assistants and Related Workers

- 4-51 Salesmen, shop assistants and demonstrators
- 4-52 Street vendors, canvassers and newsvendors

4-9 Sales Workers Not Elsewhere Classified

- 4-90 Sales workers not elsewhere classified

Major Group 5: Service Workers

5-0 Managers (Catering and Lodging Services)

- 5-00 Managers (catering and lodging services)

5-1 Working Proprietors (Catering and Lodging Services)

- 5-10 Working proprietors (catering and lodging services)

5-2 Housekeeping and Related Service Supervisors

- 5-20 Housekeeping and related service supervisors

5-3 Cooks, Waiters, Bartenders and Related Workers

- 5-31 Cooks
- 5-32 Waiters, bartenders and related workers

5-4 Maids and Related Housekeeping Service Workers Not Elsewhere Classified

- 5-40 Maids and related housekeeping service workers not elsewhere classified

5-5 Building Caretakers, Charworkers, Cleaners and Related Workers

- 5-51 Building caretakers
- 5-52 Charworkers, cleaners and related workers

- 5-6 Launderers, Dry-Cleaners and Pressers
 - 5-60 Launderers, dry-cleaners and pressers
- 5-7 Hairdressers, Barbers, Beauticians and Related Workers
 - 5-70 Hairdressers, barbers, beauticians and related workers
- 5-8 Protective Service Workers
 - 5-81 Fire-fighters
 - 5-82 Policemen and detectives
 - 5-89 Protective service workers not elsewhere classified
- 5-9 Service Workers Not Elsewhere Classified
 - 5-91 Guides
 - 5-92 Undertakers and embalmers
 - 5-99 Other service workers

Major Group 6: Agricultural, Animal Husbandry and Forestry Workers, Fishermen and Hunters

- 6-0 Farm Managers and Supervisors
 - 6-00 Farm managers and supervisors
- 6-1 Farmers
 - 6-11 General farmers
 - 6-12 Specialised farmers
- 6-2 Agricultural and Animal Husbandry Workers
 - 6-21 General farm workers
 - 6-22 Field crop and vegetable farm workers
 - 6-23 Orchard, vineyard and related tree and shrub crop workers
 - 6-24 Livestock workers
 - 6-25 Dairy farm workers
 - 6-26 Poultry farm workers
 - 6-27 Nursery workers and gardeners
 - 6-28 Farm machinery operators
 - 6-29 Agricultural and animal husbandry workers not elsewhere classified
- 6-3 Forestry Workers
 - 6-31 Loggers
 - 6-32 Forestry workers (except logging)
- 6-4 Fishermen, Hunters and Related Workers
 - 6-41 Fishermen
 - 6-49 Fishermen, hunters and related workers not elsewhere classified

Major Group 7/8/9: Production and Related Workers, Transport Equipment Operators and Labourers

- 7-0 Production Supervisors and General Foremen
 - 7-00 Production supervisors and general foremen
- 7-1 Miners, Quarrymen, Well Drillers and Related Workers
 - 7-11 Miners and quarrymen
 - 7-12 Mineral and stone treaters
 - 7-13 Well drillers, borers and related workers

- 7-2 Metal Processers
 - 7-21 Metal smelting, converting and refining furnacemen
 - 7-22 Metal rolling-mill workers
 - 7-23 Metal melters and reheaters
 - 7-24 Metal casters
 - 7-25 Metal moulders and coremakers
 - 7-26 Metal annealers, temperers and case-hardeners
 - 7-27 Metal drawers and extruders
 - 7-28 Metal platers and coaters
 - 7-29 Metal processers not elsewhere classified
- 7-3 Wood Preparation Workers and Paper Makers
 - 7-31 Wood treaters
 - 7-32 Sawyers, plywood makers and related wood-processing workers
 - 7-33 Paper pulp preparers
 - 7-34 Paper makers
- 7-4 Chemical Processers and Related Workers
 - 7-41 Crushers, grinders and mixers
 - 7-42 Cookers, roasters and related heat-treaters
 - 7-43 Filter and separator operators
 - 7-44 Still and reactor operators
 - 7-45 Petroleum-refining workers
 - 7-49 Chemical processers and related workers not elsewhere classified
- 7-5 Spinners, Weavers, Knitters, Dyers and Related Workers
 - 7-51 Fibre preparers
 - 7-52 Spinners and winders
 - 7-53 Weaving- and knitting-machine setters and pattern-card preparers
 - 7-54 Weavers and related workers
 - 7-55 Knitters
 - 7-56 Bleachers, dyers and textile product finishers
 - 7-59 Spinners, weavers, knitters, dyers and related workers not elsewhere classified
- 7-6 Tanners, Fellmongers and Pelt Dressers
 - 7-61 Tanners and fellmongers
 - 7-62 Pelt dressers
- 7-7 Food and Beverage Processers
 - 7-71 Grain millers and related workers
 - 7-72 Sugar processers and refiners
 - 7-73 Butchers and meat preparers
 - 7-74 Food preservers
 - 7-75 Dairy product processers
 - 7-76 Bakers, pastrycooks and confectionery makers
 - 7-77 Tea, coffee and cocoa preparers
 - 7-78 Brewers, wine and beverage makers
 - 7-79 Food and beverage processers not elsewhere classified
- 7-8 Tobacco Preparers and Tobacco Product Makers
 - 7-81 Tobacco preparers
 - 7-82 Cigar makers
 - 7-83 Cigarette makers
 - 7-89 Tobacco preparers and tobacco product makers not elsewhere classified

- 7-9 Tailors, Dressmakers, Sewers, Upholsterers and Related Workers
 - 7-91 Tailors and dressmakers
 - 7-92 Fur tailors and related workers
 - 7-93 Milliners and hatmakers
 - 7-94 Patternmakers and cutters
 - 7-95 Sewers and embroiderers
 - 7-96 Upholsterers and related workers
 - 7-99 Tailors, dressmakers, sewers, upholsterers and related workers not elsewhere classified
- 8-0 Shoemakers and Leather Goods Makers
 - 8-01 Shoemakers and shoe repairers
 - 8-02 Shoe cutters, lasters, sewers and related workers
 - 8-03 Leather goods makers
- 8-1 Cabinetmakers and Related Woodworkers
 - 8-11 Cabinetmakers
 - 8-12 Woodworking-machine operators
 - 8-19 Cabinetmakers and related woodworkers not elsewhere classified
- 8-2 Stone Cutters and Carvers
 - 8-20 Stone cutters and carvers
- 8-3 Blacksmiths, Toolmakers and Machine-Tool Operators
 - 8-31 Blacksmiths, hammersmiths and forging-press operators
 - 8-32 Toolmakers, metal patternmakers and metal markers
 - 8-33 Machine-tool setter-operators
 - 8-34 Machine-tool operators
 - 8-35 Metal grinders, polishers and tool sharpeners
 - 8-39 Blacksmiths, toolmakers and machine-tool operators not elsewhere classified
- 8-4 Machinery Fitters, Machine Assemblers and Precision Instrument Makers (except Electrical)
 - 8-41 Machinery fitters and machine assemblers
 - 8-42 Watch, clock and precision instrument makers
 - 8-43 Motor vehicle mechanics
 - 8-44 Aircraft engine mechanics
 - 8-49 Machinery fitters, machine assemblers and precision instrument makers (except electrical) not elsewhere classified
- 8-5 Electrical Fitters and Related Electrical and Electronics Workers
 - 8-51 Electrical fitters
 - 8-52 Electronics fitters
 - 8-53 Electrical and electronic equipment assemblers
 - 8-54 Radio and television repairmen
 - 8-55 Electrical wiremen
 - 8-56 Telephone and telegraph installers
 - 8-57 Electric linemen and cable jointers
 - 8-59 Electrical fitters and related electrical and electronics workers not elsewhere classified
- 8-6 Broadcasting Station and Sound Equipment Operators and Cinema Projectionists
 - 8-61 Broadcasting station operators
 - 8-62 Sound equipment operators and cinema projectionists
- 8-7 Plumbers, Welders, Sheet Metal and Structural Metal Preparers and Erectors
 - 8-71 Plumbers and pipe fitters
 - 8-72 Welders and flame-cutters
 - 8-73 Sheet-metal workers
 - 8-74 Structural metal preparers and erectors

- 8-8 Jewellery and Precious Metal Workers
 - 8-80 Jewellery and precious metal workers
- 8-9 Glass Formers, Potters and Related Workers
 - 8-91 Glass formers, cutters, grinders and finishers
 - 8-92 Potters and related clay and abrasive formers
 - 8-93 Glass and ceramics kilnmen
 - 8-94 Glass engravers and etchers
 - 8-95 Glass and ceramics painters and decorators
 - 8-99 Glass formers, potters and related workers not elsewhere classified
- 9-0 Rubber and Plastics Product Makers
 - 9-01 Rubber and plastics product makers (except tire makers and tire vulcanisers)
 - 9-02 Tire makers and vulcanisers
- 9-1 Paper and Paperboard Products Makers
 - 9-10 Paper and paperboard products makers
- 9-2 Printers and Related Workers
 - 9-21 Compositors and typesetters
 - 9-22 Printing pressmen
 - 9-23 Stereotypers and electrotypers
 - 9-24 Printing engravers (except photo-engravers)
 - 9-25 Photo-engravers
 - 9-26 Bookbinders and related workers
 - 9-27 Photographic darkroom workers
 - 9-29 Printers and related workers not elsewhere classified
- 9-3 Painters
 - 9-31 Painters, construction
 - 9-39 Painters not elsewhere classified
- 9-4 Production and Related Workers Not Elsewhere Classified
 - 9-41 Musical instrument makers and tuners
 - 9-42 Basketry weavers and brush makers
 - 9-43 Non-metallic mineral product makers
 - 9-49 Other production and related workers
- 9-5 Bricklayers, Carpenters and Other Construction Workers
 - 9-51 Bricklayers, stonemasons and tile setters
 - 9-52 Reinforced-concreters, cement finishers and terrazzo workers
 - 9-53 Roofers
 - 9-54 Carpenters, joiners and parquetry workers
 - 9-55 Plasterers
 - 9-56 Insulators
 - 9-57 Glaziers
 - 9-59 Construction workers not elsewhere classified
- 9-6 Stationary Engine and Related Equipment Operators
 - 9-61 Power-generating machinery operators
 - 9-69 Stationary engine and related equipment operators not elsewhere classified
- 9-7 Material-Handling and Related Equipment Operators, Dockers and Freight Handlers
 - 9-71 Dockers and freight handlers
 - 9-72 Riggers and cable splicers
 - 9-73 Crane and hoist operators
 - 9-74 Earth-moving and related machinery operators
 - 9-79 Material-handling equipment operators not elsewhere classified

- 9-8 Transport Equipment Operators
 - 9-81 Ships' deck ratings, barge crews and boatmen
 - 9-82 Ships' engine-room ratings
 - 9-83 Railway engine drivers and firemen
 - 9-84 Railway brakemen, signalmen and shunters
 - 9-85 Motor vehicle drivers
 - 9-86 Animal and animal-drawn vehicle drivers
 - 9-89 Transport equipment operators not elsewhere classified
- 9-9 Labourers Not Elsewhere Classified
 - 9-99 Labourers not elsewhere classified

Major Group X: Workers Not Classifiable by Occupation

- X-1 New Workers Seeking Employment
 - X-10 New workers seeking employment
- X-2 Workers Reporting Occupations Unidentifiable or Inadequately Described
 - X-20 Workers reporting occupations unidentifiable or inadequately described
- X-3 Workers Not Reporting Any Occupation
 - X-30 Workers not reporting any occupation

Armed Forces: Members of the Armed Forces

APPENDIX F

CLASSIFICATION OF INSTRUCTIONAL PROGRAMS (CIP)

Purpose:

This classification is a reference tool to assist the collection, reporting, and interpretation of data about instructional programs in the United States. It is used by approximately 3,000 colleges and Universities and 8,000 non-collegiate schools offering occupational programs to report information to the National Center for Educational Statistics.

Use:

Defining and identifying participant training programs institutions, since many U.S. training institutions use the CIP in reporting information, it is recommended that Missions make use of this classification in communicating participant training program needs to USAID Washington and to U.S. institutions. Note: institutions may have their own "in-house" course and/or program titles; however, they may be familiar with CIP terminology and definitions and, as such, the CIP classification gives USAID Missions a standard methodology of communicating training needs.

The CIP is also the basis for organizing detailed program, course, and training institutional information that is contained in Career Information Delivery Systems (CIDS) that are used by some 2,000,000 people each year in the United States. This type of information, available in hard copy and micro computer versions, can be purchased by Missions from one of several vendors for a modest yearly subscription (i.e., US\$1,000-\$2,000). Missions may find this information useful in selecting specific institutions for participant training once they have determined the occupations and training programs to be included in the Participant Training Program.

Manpower Planning, the CIP is also the basis for organizing supply data for manpower demand/supply analysis in all States and at the National level in the United States. USAID may find it useful in organizing data for "in-country" manpower planning activities.

Relating Skills/Occupations to Training Programs and Identifying, all Standard Occupational Classifications (discussed in Appendix ___) can be directly related to CIP training program classifications. This can assist Missions in identifying training programs for host countries once they have defined the occupations for which they want training.

NOTE: CIP classifications/definitions themselves do not provide any indication of level or length of training, one must obtain this from the SOC or CIDS systems previously referenced and discussed in more detail in Appendices D and E.

A Classification of Instructional Programs

Gerald S. Malitz
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Introduction

At the time of its inception, the Office of Education was given responsibility for gathering data about education in the United States. Its mandate, in the legislative act that established the Office in 1867, was to "collect such statistics and facts as shall show the condition and progress of education in the several States and Territories." Since 1965 this function has been assumed by the National Center for Education Statistics (NCES). The Education Amendments of 1974 (Sec. 406(b)(1), 88 stat. 629), reaffirming the mandate of 1867, state that NCES shall "collect, collate, and, from time to time, report full and complete statistics on the condition of education in the United States."

To support this congressionally-mandated collection of data, the Office of Education--and more recently NCES--has supported the development of a series of terminology publications. (See appendix A for a complete list of NCES terminology publications issued to date). These publications were developed as two separate series, one for elementary and secondary schools and systems, the other for higher education. Terminology about community and junior colleges has variously been included in either and both series. The elementary and secondary series, initiated in the 1950s, have a two-fold purpose: (1) to create a standard terminology to guide the reporting of data and (2) to provide guidance to state and local education agencies in establishing record-keeping systems. The higher education series, the first of which was published in 1970, is directed at only the first purpose. The terminology standards contained in these publications have become widely used, in collecting data from educational institutions, not only by NCES, but by State governments and Federal agencies as well.

Two NCES publications used to classify instructional programs are the *Standard Terminology for Curriculum and Instruction in Local and State School Systems*, commonly referred to as Handbook VI and *A Taxonomy of Instructional Programs in Higher Education*, commonly referred to as the HEGIS Taxonomy. The new classification is intended to replace the Taxonomy and fill a void in Handbook VI with regards to instructional programs.

Reasons for Change

There are at least five reasons for developing a new classification. First, Handbook VI and the HEGIS Taxonomy, both published in 1970, need updating since new instructional programs have evolved or have gained new significance. Ten years ago, programs such as elementary particle physics, laser electro-optic technology, and energy conservation and use technology did not seem as important as they are today.

Second, the HEGIS Taxonomy contains no program definitions or descriptors. This deficiency diminishes the reliability and validity of HEGIS data because a program title alone often does not convey enough information about the program to indicate what degrees should be reported under that heading. It might not be apparent, for example, that a dual French-German degree should be reported under the category "foreign languages, general". Titles no less ambiguous are "health professions, general," "English, general," "educational supervision," and "international public service (other than diplomatic service)." Other difficulties can arise for someone who possesses little expertise in a given discipline and encounters two programs that superficially appear quite similar. Thus, the nonengineer might find it difficult to distinguish "geological engineering" from "geophysical engineering".

Third, the HEGIS Taxonomy and Handbook VI conflict in the area of vocational education because they approach it in markedly different ways. This confusion is particularly disconcerting to community colleges, which are required by the Federal government to report data on occupational programs according to the two classifications. Although the HEGIS Taxonomy attempts to encompass "technological and occupational curriculums," only technologies are covered for the most part. In addition, the Taxonomy inadequately represents or ignores many nontechnological programs in areas such as agriculture, home economics, and marketing. Some technological programs also appear in the Taxonomy but not in Handbook VI, and vice versa. For example, "medical record technology" is listed in the HEGIS Taxonomy but not in Handbook VI, while "environmental-control technology" (heating, cooling, refrigeration) shows up only in Handbook VI. There are difficulties even for many programs that appear in both classifications. For example, "computer operator and peripheral equipment operation technologies" in HEGIS is only roughly equivalent to the Handbook VI category "scientific data processing".

Fourth, both the HEGIS Taxonomy and Handbook VI contain weaknesses in the way instructional programs are classified and disaggregated. HEGIS offers no intermediary level of aggregation that groups together programs such as physics or chemistry. In order to get the total number of degrees granted in chemistry, one must sum data from six subspecialties. Handbook VI suffers from the same problem. Under distributive education, for example, 97 six digit categories (the third level of disaggregation) are included in no hierarchical arrangement of two-digit categories. In some instances, Handbook VI also contains too much detail, for example, one finds the ten-digit category "housing practices" under "production management" (eight digits), "animal science" (six digits), "agricultural production" (four digits), and "agriculture" (two digits, the highest level of aggregation).

Fifth, nontraditional and adult education programs are not covered by either the HEGIS Taxonomy or Handbook VI. As a result of this deficiency, NCES surveys of adult education activities were not able to directly utilize HEGIS or Handbook VI categories.

Intended Uses of the Classification

According to 1978 data, there are in the United States over 3,100 colleges and universities, over 7,600 noncollegiate schools offering occupational programs, and over 15,000 elementary and secondary school districts. Most of these schools and colleges have developed instructional programs that meet the needs of their institution and its students, have labeled those programs in terms that identify and describe those programs in ways that best serve their internal needs, and have evolved classification and coding schemes that reflect their own arrangements and meet their management needs.

However, many times schools and colleges must communicate information about their programs with State or Federal agencies, professional or accrediting groups, and other institutions in a language that everyone understands. In this case, that means a set of data categories and definitions that are subscribed to by all parties to the information exchange (data collecting and reporting) activity. This does not mean that institutions must modify their internal systems to satisfy the needs of external reporting. To the contrary, to do so would reduce the utility of data for internal use, in most institutions the primary consideration. Rather an institution should be prepared to translate its data into a common structure for purposes of reporting data and otherwise communicating with other agencies and institutions. It is recommended that primary sources of information (i.e., schools and colleges) use this classification to structure their record keeping system for internal use if:

- 1) it is found to be appropriate for intra-institutional use, and
- 2) external (reporting) uses are so prevalent relative to internal uses that efficiency is better served.

This classification is intended as a reference tool to assist in the collection, reporting, and interpretation of data about instructional programs. It is intended to aid those who: design data-collection instruments; respond to the questionnaires; and compile, verify, and analyze data. The classification provides a universe for design of data-collection instruments from which program titles may be selected. Survey respondents and those who compile and verify data may view the classification as a dictionary to clarify where a particular datum should be reported. And finally, researchers and analysts can use the classification as a means of understanding the scope or content validity of a particular datum.

The classification will also provide the Federal government with a standard means of describing instructional programs that can be used in developing Federal survey instruments. NCES will use the classification for HEGIS and the Vocational Education Data System (VEDS) surveys as well as other NCES surveys. HEGIS consists of a number of individual survey instruments, one of which focuses on the number of associate, bachelor's, master's, doctor's, and first-professional degrees granted by colleges and universities. Degree data are reported by kind of degree and

field or specialty. This classification will serve as the standard reference from which appropriate specialty categories appearing on the HEGIS form will be drawn. As a result of the 1976 Education Amendments, NCES is also charged with establishing VEDS to supply annual data on vocational education programs in secondary schools, vocational-technical schools, and colleges and universities (Public Law 94-482, Sec. 161, 20 USC 2391). VEDS data is also collected by specialties or fields. The classification will provide the standard reference material from which the list of vocational education specialties appearing on the survey instrument will be created.

Quite apart from federal purposes and obligations, the classification has value for States and institutions. State education agencies, central offices of college and university systems, and superintendents of large school districts have data reporting needs not unlike those of the Federal government. These administrative units require standardized data on instructional programs for such functions as budgeting, funding, planning, allocating classroom space, assigning personnel, and reviewing programs. State agency personnel need standardized data from each institution within their state, for example, to compare program offerings and avoid duplications. Central university system offices and school district offices also rely upon standardized data to prepare system-wide and district wide budgets.

The classification should also be useful to individual institutions. To keep abreast of latest developments, institutions belonging to a particular interest group frequently wish to exchange data on a regular basis. Similarly, institutions undertaking self-studies often wish to compare their own data with equivalent data from institutions of like size and complexity.

Among the many potential users of this classification are State and Federal agencies and other organizations that are not primary sources of data about instructional programs. Since they must first collect data from schools and colleges before they can either use the data or pass it on to third parties, such organizations may well find it useful to structure their record-keeping systems in accordance with the classification. Indeed, as a result of the review of the preliminary draft, the coding structure has been modified somewhat to make this particular use more easy to accommodate.

Cautionary Notes About Use

The classification describes the content of programs at three levels (two-digit, four-digit, and six-digit levels). Its design allows it to be used in collecting data at varying levels of detail. However, it must remain the responsibility of the individual or agency requesting the data to specify the level of detail appropriate to their needs. Many times, no single level of detail will yield the desired data. The classification provides the building blocks, it does not provide the blueprint for all uses. The task must lie with the user.

Finally, users should not interpret similar categorization of programs as connoting exact comparability. Programs at two institutions can be categorized and coded in exactly the same

way, and yet be different. This can occur for a variety of reasons. First, the classification represents a common framework to which institutions have translated their own data; they have the end point, but not necessarily the beginning point, of the translation process in common. Second, there are many nuances to a full description of an instructional program, nuances involving methods of teaching, prior preparation of students, mix of resources used, etc. In short, it must be recognized that comparability is a relative, not an absolute, concept. If used properly, the classification should help assure that programs categorized together are more like each other than they are like programs in other categories.

Concepts Basic to the Classification

a. The Definition of "Instructional Programs"

For purposes of this publication, instructional programs are defined as:

One or more structured learning experiences designed to accomplish a predetermined objective or set of allied objectives, such as preparation for advanced study, qualification for an occupation or range of occupations, or solely to increase knowledge or understanding.¹

Two points in particular should be noted. First, as used in this publication, instructional programs are comprised of *structured learning experiences*. This means that learning that occurs by happenstance or that accrues through experience, but in the absence of a designed intent are to be excluded. At the same time, "structured learning experience" should be interpreted broadly. Student learning contracts, organized field experiences, and other *planned* experiences can be accommodated within this definition. The important thing is that they are planned and structured; the methods by which they are carried out are not determining considerations. Included within the scope of this definition are:

- programs leading to the award of a high school diploma, college degree, or certificate of some form (programs resulting in an award are generally designed to provide one with a well-rounded education or to prepare one for further study or for entry into one or more occupations);
- program; leading to educational attainment generally commensurate with a particular age or grade level--for example, a fifth-grade instructional program (grade-level programs generally prepare an individual for the next level of education);

¹Chismore, W. Dale, and Hill, Quentin M. *A Classification of Educational Subject Matter*. State Educational Records and Reports Series, Handbook XI. U.S. Department of Health, Education, and Welfare, National Center for Educational Statistics, NCES 78-112. Washington, D.C. U.S. Government Printing Office, 1978.

- programs intended to keep employed individuals current in their fields (so called continuing professional education or occupational updating programs); and
- programs intended to equip individuals for leisure-time pursuits.

Second, instructional programs are planned and organized toward an end point. They can be described in terms of their explicitly stated or implied objectives; for example, preparation for advanced study, preparation for job entry, occupational or professional updating, or preparation for a licensing exam. Alternatively, instructional programs can be described or categorized according to the forms of recognition bestowed upon completion of the programs; for example, high school diplomas, certificates, or degrees. In many cases, the basic objectives are implied by the nature of the award conferred upon program completion. Because there is more commonality of practice and understanding about awards than about program purposes more abstractly stated, the latter approach has been adopted in this publication.

b. The Related Concept of Subject Matter

The concept of instructional programs is often confused with the concept of subject matter. This widespread confusion requires that a distinction be made between these concepts and guidelines developed for determining what should or should not be considered as an instructional program. According to NCES, subject matter is defined as:

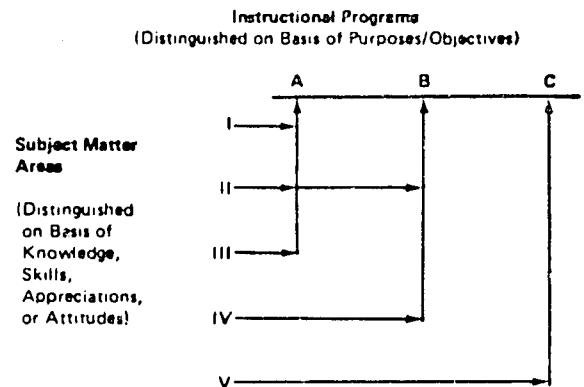
a body of facts, understandings, processes, skills, values, and appreciations related to a specific aspect of human activity and experience. Subject matter includes the accumulated knowledge, skills, appreciations, and attitudes comprising the substance of any subject matter area.²

Instructional programs, therefore, are distinguished by the "objective or set of objectives" they are designed to accomplish, while subject matter areas are distinguished by the substantive content of the "knowledge, skills, appreciations, or attitudes" that they embody. While these fundamental concepts are highly interrelated in that all instructional programs have a subject matter base, they are not

²Putnam, John F., and Chismore, W. Dale. *Standard Terminology for Curriculum and Instruction in Local and State School Systems*. State Educational Records and Reports Series, Handbook VI. U.S. Department of Health, Education, and Welfare, Office of Education, OE-23052. Washington, D.C.: U.S. Government Printing Office, 1970.

synonymous. Figure 1 depicts that relationship between instructional programs and subject matter areas in a simplified fashion.

Figure 1. Relationship Between Instructional Programs and Subject Matter Areas



The relationships between Subject Matter Areas I, II, III, and Instructional Program A illustrate a common phenomenon: instructional programs generally derive from subject matter areas. For example, an instructional program that prepares students for advanced study in physics may draw from mathematics and chemistry, in addition to physics. The relationships between Subject Matter Area II and Instructional Programs A and B illustrate that multiple instructional programs often draw from a common subject matter area. Programs designed for such different purposes as preparing students for advanced study in physics and preparing students as entry-level machinists both draw on mathematics, though at differing levels of complexity. Finally, the relationship between Subject Matter Area V and Instructional Program C shows that many instructional programs have as their sole purpose the transferral of knowledge or skills embodied in a single subject matter area. Examples of this relationship are programs to help students with a communication skill such as reading or programs to acquaint an individual with recent advances in chemistry.

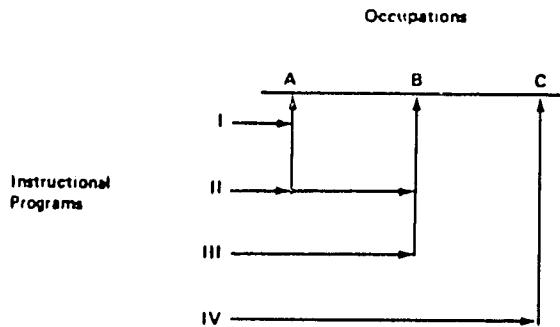
The concept of an instructional program generally applies to collecting data about degrees granted and student majors, while the concept of subject matter generally applies to collecting data about either resources on or not on levels of activity—full-time equivalent (FTE) faculty assigned or student credit/contact hours generated—for instruction in a particular discipline. It is expected, in addition to its intended uses that the new classification will be widely used to describe both instructional programs and subject matter. Users should take particular care to clearly state how the classification is being used in any application.

c. Relationship to Labor Market Supply and Demand

A major use of instructional program data, particularly at the State and National levels, is in the development of information for labor market supply and demand comparisons. A single classification of programs will eliminate the wide variation in classification of occupational programs which existed because of the use of both Handbook VI and the HEGIS Taxonomy. In addition, it was decided to align instructional program (supply) categories as closely as possible with occupational (demand) categories.

Figure 2 depicts the relationships between instructional programs and occupations in a simplified fashion.

Figure 2. Relationship Between Instructional Programs and Occupations



This illustration serves to indicate that:

- 1) Many occupations draw their entrants from multiple instructional programs--for example sales personnel can be trained in business, engineering, liberal arts, etc.;
- 2) Many instructional programs provide manpower supply to many occupations; liberal arts is the classic example of this phenomenon; and
- 3) There are some programs for which relationships to occupations are singular and direct.

Where the latter relationship holds, the classification structure has been designed to facilitate linkages to occupation information (the categories of Mechanics and Repairers, and Precision Production have been developed on this basis, for example). Where the linkages are not singular, the classification reflects practice in educational institutions.

Criteria for Designing the Classification

Six criteria were used to design the classification:

1. Distinctions among programs are made on the basis of program purposes or objectives. For example, civil engineering technology is distinguished from civil engineering because the explicit purpose of the first program is to train individuals who can assist civil engineers.
2. The classification applies to all instructional programs irrespective of the organization providing the instruction. Thus the classification attempts to accommodate leisure and recreational programs offered by municipal parks and recreation departments.
3. The classification applies to all educational levels--elementary, secondary, and postsecondary. This means that a program offered mostly by secondary schools, such as industrial arts, is included.
4. In order to provide continuity, ties to existing classification schemes are maintained as long as they do not violate other criteria. Although few degrees are awarded in embryology, the field has been maintained because it appears in the HEGIS Taxonomy.
5. The classification reflects the historical traditions of the various instructional program areas. Thus the category of home economics is quite detailed whereas law is not.
6. The structure reflects an institutional or organizational perspective because institutions are the data providers. (Examples related to this criterion are provided in the following section.)

Comparison between New and Old Classifications

The following comparisons can be made:

1. For the most part, the individual programs contained in both Handbook VI (at the six-digit level and above) and the HEGIS Taxonomy have been retained except for deletions required to eliminate duplication.
2. The levels of detail are the same as for the previous classifications--the apparent change in detail for the HEGIS categories (occasioned by the move from a four- to six-digit code) results from the addition of an intermediate level of aggregation rather than from the addition of more detailed subcategories.
3. The groupings of programs have been changed in some cases to better distinguish between programs having different purposes.
4. New categories have been added both to update previous classifications and to include programs such as leisure and recreation programs not encompassed by the previous classifications.

Describing the Classification

The Classification consists of two independent dimensions, one for *program purpose* and the other for *program category*. Additional detail for the program category dimension is given in chapter 2, and definitions for program categories as well as program purposes are given in chapter 3.

Program Purpose Dimension

The categorization scheme for program purposes distinguishes between programs solely on the basis of whether or not they culminate in a formal award, such as a degree, diploma, or certificate. Although simplistic, this dichotomy has several virtues. First, it reflects a distinction assumed by institutions in describing their programs as "degree" or "nondegree." Second, this distinction further reflects the way institutions collect and report data on program enrollment and completion. Finally, unlike other alternatives, the distinction between "degree" and "nondegree" programs is operational. A search of college catalogs will typically reveal such formal statements of program purposes and objectives as to enhance the quality of life, to promote democratic ideals, to develop the whole person, and to prepare individuals for employment in particular occupations. While such statements may be more descriptive of ultimate program goals, no consensus exists that would result in standard categories along these lines. Further distinctions are needed within the two categories of program purpose. It is necessary, for example, to know whether a program results in a high school diploma or a Ph.D. In short, it is crucial to distinguish program levels within the program purpose categories. For programs culminating in formal awards, subcategories are expressed in terms of the particular award granted upon program completion, such as high school diploma or baccalaureate degree.³ For programs not resulting in a formal award, level distinctions are often not made. In instances where level distinctions are useful or necessary, programs can be categorized as "introductory", "intermediate", or "advanced". (See table 1 for a complete listing of program purpose subdivisions.)

The discussion of program purpose would not be complete without addressing the question of "purpose as identified by whom"? This question can be answered from at least three different perspectives: that of the individual learner, that of society itself, and that of the institution providing the program.

³Further distinctions within award programs, such as grade-level descriptors, are often used. Such descriptors perhaps more appropriately describe the progress of an individual vis-a-vis a program rather than the program itself. Nevertheless, there are many instances in which all individuals at a particular grade level take the same educational program—for example, the first year of medical school. In such cases, grade-level distinctions can legitimately be used to identify and classify instructional programs.

Table 1. Program Purpose Dimension

Award Programs

- 1.0 Elementary/Secondary Programs
 - 1.1 Elementary School Program
 - 1.2 Junior High School Program
 - 1.3 High School Diploma Program
- 2.0 Postsecondary Certificates/Diplomas/Degrees
 - 2.1 Postsecondary Certificate or Diploma (less than one year)
 - 2.2 Postsecondary Certificate or Diploma (one year or more but less than four years)
 - 2.3 Associate Degree
 - 2.4 Baccalaureate Degree
- 3.0 First-Professional Certificates/Degrees
 - 3.1 First-Professional Degree
 - 3.2 Post-Professional Certificate
- 4.0 Graduate Certificates/Degrees
 - 4.1 Graduate Certificate
 - 4.2 Master's Degree
 - 4.3 Intermediate Graduate Degree
 - 4.4 Doctoral Degree
 - 4.5 Post-Doctoral Award

Nonformal Award Programs

5.0 Nonformal Award Programs

The reasons learners give for participating in an educational experience are varied. This provides a difficult basis for classifying program purposes in a standardized way. A second perspective, that of society, asks what the societal benefits are of continued investment in education. The difficulty with this perspective is that societal objectives are too broadly stated to be of assistance in classifying program purposes.⁴ For this classification, the third perspective—that of the institution providing the instructional program will be used. This choice is made purely on pragmatic grounds. The preponderance of data about instructional programs is collected from institutions, not individual students. Since we have little choice but to adopt the institution's perspective if the resulting data are to be interpreted with any consistency, program purpose should be interpreted as the purpose or objective intended by the institution offering the program.

⁴See the statements of social objectives incorporated in: Carnegie Commission on Higher Education, *The Purposes and the Performance of Higher Education in the United States: Approaching the Year 2000* (New York: McGraw Hill, 1973); Christoffel, Pamela, and Rice, Lois, *Federal Policy Issues and Data Needs in Postsecondary Education*, U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, NCES 76-238, Washington, D.C.: U.S. Government Printing Office, 1976; *The Second Newman Report: National Policy and Higher Education*, Report of a Special Task Force to the Secretary of Health, Education, and Welfare (Cambridge, Ma.: The MIT Press, 1973).

Program Category Dimension

The second dimension of the classification is that which distinguishes programs that differ substantively in the blend of their subject matter content. There also exists a large number

of instructional programs that differ in subtle ways. Because of the practical limitations of large-scale data collection, structural simplicity became the guiding principle for this dimension, which took the form of a simple alphabetical listing of major program categories. (See table 2 for a complete list of the program category subdivisions.)

Table 2. Program Category Dimension

<i>Agriculture</i>	<i>Library and Archival Sciences</i>
01. Agribusiness and Agricultural Production	25. Library and Archival Sciences
02. Agricultural Sciences	
03. Renewable Natural Resources	<i>Life Sciences</i>
	26. Life Sciences
<i>Architecture and Environmental Design</i>	
04. Architecture and Environmental Design	<i>Mathematics</i>
	27. Mathematics
<i>Area and Ethnic Studies</i>	
05. Area and Ethnic Studies	<i>Military Sciences</i>
	28. Military Sciences
<i>Business</i>	29. Military Technologies
06. Business and Management	
07. Business and Office	<i>Multi/Interdisciplinary Studies</i>
08. Marketing and Distribution	30. Multi/Interdisciplinary Studies
<i>Communications</i>	<i>Parks and Recreation</i>
09. Communications	31. Parks and Recreation
10. Communications Technologies	
	<i>Personal and Social Development</i>
<i>Computer and Information Sciences</i>	32. Basic Skills
11. Computer and Information Sciences	33. Citizenship/Civic Activities
	34. Health-Related Activities
<i>Consumer, Personal, and Miscellaneous Services</i>	35. Interpersonal Skills
12. Consumer, Personal, and Miscellaneous Services	36. Leisure and Recreational Activities
	37. Personal Awareness
<i>Education</i>	
13. Education	<i>Philosophy, Religion, and Theology</i>
	38. Philosophy and Religion
<i>Engineering</i>	39. Theology
14. Engineering	
15. Engineering and Engineering-Related Technologies	<i>Physical Sciences</i>
	40. Physical Sciences
<i>Foreign Languages</i>	41. Science Technologies
16. Foreign Languages	
	<i>Psychology</i>
<i>Health</i>	42. Psychology
17. Allied Health	
18. Health Sciences	<i>Public Affairs and Protective Services</i>
	43. Protective Services
<i>Home Economics</i>	44. Public Affairs
19. Home Economics	
20. Vocational Home Economics	<i>Social Sciences</i>
	45. Social Sciences
<i>Industrial Arts</i>	
21. Industrial Arts	<i>Trade and Industrial</i>
	46. Construction Trades
<i>Law</i>	47. Mechanics and Repairers
22. Law	48. Precision and Production
	49. Transportation and Material Moving
<i>Letters</i>	
23. Letters	<i>Visual and Performing Arts</i>
	50. Visual and Performing Arts
<i>Liberal/General Studies</i>	
24. Liberal/General Studies	

Principles Influencing Development of Program Categories

The two operating principles that influenced the development of major program categories were:

1. Substantive differences take precedence over program prevalence or popularity. This means that program categories with distinctive subject matter configurations were included as separate entries, even though available data suggest that certain programs have relatively few enrollments or graduates. Thus "military sciences" programs receive equal billing with "social sciences". As a consequence of this guideline, the classification is uneven in the level of detail within program categories.
2. Overly fine distinctions among program categories were avoided. In cases where distinctions might be called for on conceptual grounds, but the distinctions were particularly subtle or were considered infeasible to apply and maintain in common usage, separate program categories were not included. To illustrate, specialties within "psychology" were maintained as separate categories even though within a given specialty some programs might have more clinical emphasis than others and thus possibly warrant a separate category.

The classification that has emerged represents an attempt to be both conceptually sound and pragmatic. When these criteria were found to be in conflict the dilemmas were resolved in favor of what would best facilitate data collection and interpretation.

Independence of the Dimensions

In conclusion, it should be reiterated that the program purpose and program category dimensions are independent. Selecting a category from one dimension is not dependent in any way upon selecting a category from the other dimension. The past practice of reserving certain program categories for use in conjunction with programs of only one purpose or level has been eliminated. For example, there is nothing inherent in the program category dimension that automatically assumes a given vocational education program is taught exclusively at either the secondary education or associate or bachelor's degree level. While certain program categories will probably be used predominately in conjunction with selected program purposes or levels, this practice should not be viewed as exclusive or mandatory.

Some Notes About Coding Programs

Those familiar with the NC-GIS Taxonomy will recognize that the program category dimension of the classification contains three levels of detail instead of the customary two. However, this classification is conceptually more sound because of the additional level of detail.

A convention has been followed concerning how the three levels of the program category dimension are defined. The definitions of all two digit elements of this dimension begin with the words "a summary of groups of instructional programs", while the definitions of all four digit elements begin with "a group of instructional programs". At the six digit level of detail, all definitions begin with the words "an instructional program". Thus, by definition, an instructional program can only be coded at the six digit level. This technicality explains why numerous four digit programs have only one six digit subdivision: it was necessary to add the six digit entry for uniformity so that an individual instructional program under the four digit "group of programs" would have a six digit code by which to be classified.

Another area of concern existed in cases where there were occurrences of programs that logically could be classified under two or more two digit categories. In most cases, a judgement was made as to which two digit category more closely followed historical tradition or modern consensus. In other instances, a general principle was applied where appropriate. Simply stated, the principle is that programs that take much of their emphasis from one instructional area and apply that emphasis in perspective to another, are classified under the applied area. For example, although instructional program 06 1706, Real Estate Law, derives much of its subject matter from law, it is classified under category 06, business, because real estate, a subdivision of business, represents the area to which the subject matter of law is applied in this particular instance.

The following list highlights some of the occurrences alluded to in the previous paragraph:

- Agricultural Business (01 0102) and Agricultural Economics (01 0103) are classified under Agriculture instead of Business.
- Forest Engineering (03 0504) is classified under Agriculture instead of Engineering.
- Interior Design (04 0501) is classified under Architecture and Environmental Design instead of Home Economics, and
- Management Information Systems (06 1201) is classified under Business instead of Computer and Information Sciences.

Cases also exist where programs are cross referenced from one, two-digit grouping to another. This is done in cases where programs have historically been classified in either of two places, but for sake of achieving exclusivity they were put in one location. The cross reference allows for ease in locating these programs.

One further note should be made about the program category dimension. There was no attempt to include within this framework programs that combine education and work. These programs, commonly referred to as "Experiential Education", are defined as "a set of planned educational experiences designed to enable learners to acquire attitudes, skills, and knowledge for work and other life roles by participating in work settings". It includes four major types of programs: Cooperative Vocational Education, Work Experience Education, Career Exploration, and Work Study Programs. If the demand for information concerning these types of programs arises, appropriate steps will be taken to incorporate them into the existing framework of the classification. However, they do not currently fall within the criteria that was established for designing this classification.

Conventions for Classifying Selected Programs

Undoubtedly some instructional programs may be difficult to match with this classification. The following guidelines deal with the proper classification of certain frequently encountered programs of this kind as well as unusual programs for which no appropriate categories are included in the classification. The guidelines are presented topic by topic.

1. *Classifying High School Programs Leading to a Diploma*

General academic or college preparatory programs should be classified:

- Award: High School Diploma (purpose)
- Liberal General Studies (program category)

Occupational/vocational programs resulting in a high school diploma are classified:

- Award: High School Diploma (purpose)
- Appropriate Program Category

2. *Classifying Baccalaureate Transfer Program Offered by a Community College*

If the program is a general purpose program, it should be classified:

- Award: Associate (assuming a two-year program) (purpose)
- Liberal General Studies (program category)

If the program is designed to fulfill the first two years' requirements for a degree in a particular field (e.g., education or business), it should be classified:

- Award: Associate (purpose)
- Appropriate Program Category

3. *Classifying General Educational Development (GED) Programs*

Classified similarly to high school diplomas, that is:

- Award: High School Diploma (purpose)
- Liberal General Studies (program category)

4. *Classifying Adult Basic Education*

These programs should be classified:

- Nonformal Award (purpose)
- Basic Skills (program category)

5. *Classifying Continuing Professional Education*

Most such programs are designed to update professionals practicing in their chosen field and are not credit courses that can be applied toward a degree in that field. As a result, programs commonly labeled "Continuing Professional Education Programs" should be classified:

- Nonformal Award (purpose)
- Appropriate Program Category

If a program labeled a "Continuing Professional Education" course is in reality part of a degree program, then it should be classified:

- Award: Appropriate Level (purpose)
- Appropriate Program Category

6. *Classifying Occupational Updating Programs*

These should be classified in a fashion similar to continuing professional education programs. If they are not intended to lead to a degree or certificate, then they should be classified:

- Nonformal Award (purpose)
- Appropriate Program Category

If the occupational updating program is designed to culminate in a degree or certificate, then it should be classified:

- Award: Appropriate Level (purpose)
- Appropriate Program Category

7. *Using "General" Program Subcategories*

Many of the program categories in the structure have a "general" subcategory (for example, 02 0101, "Agriculture/Sciences, General"). This subcategory should be used only in those instances in which it is appropriate to connote program content covering two or more other subcategories within that category. It should not be used as a substitute for an "other" subcategory.

8. *Classifying "Other" Programs*

Many, if not all, providers of educational programs will have at least one instructional program for which there is no appropriate program element in the structure. We recommend that institutional users, for internal purposes, assign a unique number to this program within the appropriate major program category (starting from XX.78 and using sequentially decreasing codes, as necessary), however, for external purposes they should report these as XX 9999, Other. In this context, the "other" rather than the "general" subcategory should be used.

Contents of the Classification

As stated previously, chapter 2 contains a list of all subdivisions of the program purpose and program category dimensions. Chapter 3 provides a definition for each term appearing in chapter 2. Appendix A lists all existing NCES terminology publications. To provide continuity with classifications currently in use, appendixes B and C comprise crosswalks between

the new classification and the HEGIS Taxonomy and the Handbook VI vocational programs, respectively. Appendix D lists those categories of the classification that are recognized as vocational education programs currently supported under the Vocational Education Act of 1963, as amended. Appendix E lists the major contributors to the new classification and Appendix F is a glossary. An index is also included for the reader's convenience. It identifies programs by the codes used in chapters 2 and 3 rather than by page number.

Coded Classification of Instructional Programs

Program Purpose Dimension

Award Programs

1.0 Elementary/Secondary Programs

1.1 Elementary School Program

1.2 Junior High School Program

1.3 High School Diploma Program

2.0 Postsecondary Certificates/Diplomas/Degrees

*2.1 Postsecondary Certificate or Diploma
(less than one year)*

*2.2 Postsecondary Certificate or Diploma
(one year or more but less than four years)*

2.3 Associate Degree

2.4 Baccalaureate Degree

3.0 First-Professional Certificates/Degrees

3.1 First-Professional Degree

3.2 Post-Professional Certificate

4.0 Graduate Certificates/Degrees

4.1 Graduate Certificate

4.2 Master's Degree

4.3 Intermediate Graduate Degree

4.4 Doctoral Degree

4.5 Post-Doctoral Award

Nonformal Award Programs

5.0 Nonformal Award Programs

Program Category Dimension

Agriculture

- 01. Agribusiness and Agricultural Production**
- 01.01 Agricultural Business and Management**
 - 01.0101 *Agricultural Business and Management, General*
 - 01.0102 *Agricultural Business*
 - 01.0103 *Agricultural Economics*
 - 01.0104 *Farm and Ranch Management*
 - 01.0199 *Agricultural Business and Management, Other*
- 01.02 Agricultural Mechanics**
 - 01.0201 *Agricultural Mechanics, General*
 - 01.0202 *Agricultural Electrification, Power, and Controls*
 - 01.0203 *Agricultural Mechanics, Construction, and Maintenance Skills*
 - 01.0204 *Agricultural Power Machinery*
 - 01.0205 *Agricultural Structures, Equipment, and Facilities*
 - 01.0206 *Soil and Water Mechanical Practices*
 - 01.0299 *Agricultural Mechanics, Other*
- 01.03 Agricultural Production**
 - 01.0301 *Agricultural Production, General*
 - 01.0302 *Animal Production*
 - 01.0303 *Aquaculture*
 - 01.0304 *Crop Production*
 - 01.0305 *Game Farm Management*
 - 01.0399 *Agricultural Production, Other*
- 01.04 Agricultural Products and Processing**
 - 01.0401 *Agricultural Products and Processing, General*
 - 01.0402 *Food Products*
 - 01.0403 *Nonfood Products*
 - 01.0499 *Agricultural Products and Processing, Other*
- 01.05 Agricultural Services and Supplies**
 - 01.0501 *Agricultural Services and Supplies, General*
 - 01.0502 *Agricultural Services*
 - 01.0503 *Agricultural Supplies Marketing*
 - 01.0504 *Animal Grooming*
 - 01.0505 *Animal Training*
 - 01.0506 *Horseshoeing*
 - 01.0599 *Agricultural Services and Supplies, Other*

01.06	Horticulture	02.05	Soil Sciences
	01.0601 Horticulture, General		02.0501 Soil Sciences, General
	01.0602 Arboriculture		02.0502 Soil Chemistry
	01.0603 Floriculture		02.0503 Soil Conservation
	01.0604 Greenhouse Operation and Management		02.0504 Soil Management and Fertility
	01.0605 Landscaping		02.0505 Soil Microbiology
	01.0606 Nursery Operation and Management		02.0506 Soil Physics
	01.0607 Turf Management		02.0599 Soil Sciences, Other
	01.0699 Horticulture, Other		
01.07	International Agriculture	02.99	Agricultural Sciences, Other
	01.0701 International Agriculture		02.9999 Agricultural Sciences, Other
01.99	Agribusiness and Agricultural Production, Other	03.	Renewable Natural Resources
	01.9999 Agribusiness and Agricultural Production, Other		
02.	Agricultural Sciences	03.01	Renewable Natural Resources, General
			03.0101 Renewable Natural Resources, General
02.01	Agricultural Sciences, General	03.02	Conservation and Regulation
	02.0101 Agricultural Sciences, General		03.0201 Conservation and Regulation, General
			03.0202 Conservation
			03.0203 Resources Protection and Regulation
			03.0299 Conservation and Regulation, Other
02.02	Animal Sciences	03.03	Fishing and Fisheries
	02.0201 Animal Sciences, General		03.0301 Fishing and Fisheries, General
	02.0202 Animal Breeding and Genetics	 Commercial Fishing Operation (see 49.0303)
	02.0203 Animal Health		03.0302 Fisheries
	02.0204 Animal Nutrition		03.0399 Fishing and Fisheries, Other
	02.0205 Animal Physiology	03.04	Forestry Production and Processing
	02.0206 Dairy		03.0401 Forestry Production and Processing, General
	02.0207 Fisheries Science		03.0402 Forest Production
	02.0208 Livestock		03.0403 Forest Products Utilization
	02.0209 Poultry		03.0404 Forest Products Processing Technology
	02.0299 Animal Sciences, Other		03.0405 Logging
02.03	Food Sciences		03.0406 Pulp and Paper Production
	02.0301 Food Sciences, General		03.0499 Forestry Production and Processing, Other
	02.0302 Dairy Processing	03.05	Forestry and Related Sciences
	02.0303 Food Distribution		03.0501 Forestry and Related Sciences, General
	02.0304 Food Engineering		03.0502 Forestry Science
	02.0305 Food Packaging		03.0503 Forest Biology
	02.0306 Food Technology		03.0504 Forest Engineering
	02.0399 Food Sciences, Other		03.0505 Forest Hydrology
02.04	Plant Sciences		03.0506 Forest Management
	02.0401 Plant Sciences, General		03.0507 Forest Mensuration
	02.0402 Agronomy		03.0508 Urban Forestry
	02.0403 Horticulture Science		03.0509 Wood Science
	02.0404 Ornamental Horticulture		03.0599 Forestry and Related Sciences, Other
	02.0405 Plant Breeding and Genetics	03.06	Wildlife Management
	02.0406 Plant Pathology (Applied)		03.0601 Wildlife Management
	02.0407 Plant Physiology	03.99	Renewable Natural Resources, Other
	02.0408 Plant Protection (Pest Management)		03.9999 Renewable Natural Resources, Other
	02.0409 Range Management		
	02.0410 Turf Management Science		
	02.0499 Plant Sciences, Other		

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Architecture and Environmental Design

- 04. Architecture and Environmental Design**
- 04.01 Architecture and Environmental Design, General**
 - 04.0101 Architecture and Environmental Design, General**
- 04.02 Architecture**
 - 04.0201 Architecture**
- 04.03 City, Community, and Regional Planning**
 - 04.0301 City, Community, and Regional Planning**
- 04.04 Environmental Design**
 - 04.0401 Environmental Design**
- 04.05 Interior Design**
 - 04.0501 Interior Design**
- 04.06 Landscape Architecture**
 - 04.0601 Landscape Architecture**
- 04.07 Urban Design**
 - 04.0701 Urban Design**
- 04.99 Architecture and Environmental Design, Other**
 - 04.9999 Architecture and Environmental Design, Other**

Area and Ethnic Studies

- 05. Area and Ethnic Studies**
- 05.01 Area Studies**
 - 05.0101 African Studies**
 - 05.0102 American Studies**
 - 05.0103 Asian Studies, General**
 - 05.0104 East Asian Studies**
 - 05.0105 Eastern European Studies**
 - 05.0106 European Studies, General**
 - 05.0107 Latin American Studies**
 - 05.0108 Middle Eastern Studies**
 - 05.0109 Pacific Area Studies**
 - 05.0110 Russian and Slavic Studies**
 - 05.0111 Scandinavian Studies**
 - 05.0112 South Asian Studies**
 - 05.0113 Southeast Asian Studies**
 - 05.0114 Western European Studies**
 - 05.0199 Area Studies, Other**
- 05.02 Ethnic Studies**
 - 05.0201 Afro-American (Black) Studies**
 - 05.0202 American Indian Studies**
 - 05.0203 Hispanic-American Studies**
 - 05.0204 Islamic Studies**
 - 05.0205 Jewish Studies**
 - 05.0299 Ethnic Studies, Other**
- 05.99 Area and Ethnic Studies, Other**
 - 05.9999 Area and Ethnic Studies, Other**

Business

- 06. Business and Management**
- 06.01 Business and Management, General**
 - 06.0101 Business and Management, General**
- 06.02 Accounting**
 - 06.0201 Accounting**
- 06.03 Banking and Finance**
 - 06.0301 Banking and Finance**
- 06.04 Business Administration and Management**
 - 06.0401 Business Administration and Management, General**
 - 06.0402 Contract Management and Procurement/Purchasing**
 - 06.0403 Product Management**
 - 06.0404 Systems Efficiency Analysis**
 - 06.0499 Business Administration and Management, Other**
- 06.05 Business Economics**
 - 06.0501 Business Economics**
- 06.06 Human Resources Development**
 - 06.0601 Human Resources Development**
- 06.07 Institutional Management**
 - 06.0701 Hotel/Motel Management**
 - 06.0702 Recreational Enterprises Management**
 - 06.0703 Resort Management**
 - 06.0704 Restaurant Management**
 - 06.0705 Transportation Management**
 - 06.0799 Institutional Management, Other**
- 06.08 Insurance and Risk Management**
 - 06.0801 Insurance and Risk Management**
- 06.09 International Business Management**
 - 06.0901 International Business Management**
- 06.10 Investments and Securities**
 - 06.1001 Investments and Securities**
- 06.11 Labor/Industrial Relations**
 - 06.1101 Labor/Industrial Relations**
- 06.12 Management Information Systems**
 - 06.1201 Management Information Systems**
- 06.13 Management Science**
 - 06.1301 Business Statistics**
 - 06.1302 Operations Research (Quantitative Methods)**
 - 06.1399 Management Science, Other**
- 06.14 Marketing Management and Research**
 - 06.1401 Marketing Management**
 - 06.1402 Marketing Research**
 - 06.1499 Marketing Management and Research, Other**

- 06.15 **Organizational Behavior**
06.1501 Organizational Behavior
- 06.16 **Personnel Management**
06.1601 Personnel Management
- 06.17 **Real Estate**
06.1701 Real Estate, General
06.1702 Commercial Property
06.1703 Property Management
06.1704 Real Estate Appraisal
06.1705 Real Estate Finance
06.1706 Real Estate Law
06.1707 Residential Property
06.1799 Real Estate, Other
- 06.18 **Small Business Management and Ownership**
06.1801 Small Business Management
06.1802 Small Business Ownership
06.1899 Small Business Management and Ownership, Other
- 06.19 **Taxation**
06.1901 Taxation
- 06.20 **Trade and Industrial Supervision and Management**
06.2001 Trade and Industrial Supervision and Management
- 06.99 **Business and Management, Other**
06.9999 Business and Management, Other
- 07. **Business and Office**
- 07.01 **Accounting, Bookkeeping, and Related Programs**
07.0101 Accounting, Bookkeeping, and Related Programs, General
07.0102 Accounting and Computing
07.0103 Bookkeeping
07.0104 Machine Billing, Bookkeeping, and Computing
07.0199 Accounting, Bookkeeping, and Related Programs, Other
- 07.02 **Banking and Related Financial Programs**
07.0201 Banking and Related Financial Programs, General
07.0202 Credit Collection Clerk
07.0203 Insurance Clerk
07.0204 Loan Clerk
07.0205 Teller
07.0206 Transit Clerk
07.0299 Banking and Related Financial Programs, Other
- 07.03 **Business Data Processing and Related Programs**
07.0301 Business Data Processing and Related Programs, General
07.0302 Business Computer and Console Operation
07.0303 Business Data Entry Equipment Operation
07.0304 Business Data Peripheral Equipment Operation
07.0305 Business Data Programming
07.0306 Business Systems Analysis
07.0399 Business Data Processing and Related Programs, Other
- 07.04 **Office Supervision and Management**
07.0401 Office Supervision and Management
- 07.05 **Personnel and Training Programs**
07.0501 Personnel and Training Programs, General
07.0502 Educational Assisting and Training
07.0503 Personnel Assisting
07.0599 Personnel and Training Programs, Other
- 07.06 **Secretarial and Related Programs**
07.0601 Secretarial and Related Programs, General
07.0602 Court Reporting
07.0603 Executive Secretarial
07.0604 Legal Secretarial
07.0605 Medical Secretarial
07.0606 Secretarial
07.0607 Stenographic
07.0608 Word Processing
07.0699 Secretarial and Related Programs, Other
- 07.07 **Typing, General Office, and Related Programs**
07.0701 Typing, General Office, and Related Programs, General
07.0702 Clerk-Typist
07.0703 Correspondence Clerk
07.0704 Duplicating Machine Operation
07.0705 General Office Clerk
07.0706 Mail and Order Clerk
07.0707 Receptionist and Communication Systems Operation
07.0708 Shipping, Receiving, and Stock Clerk
07.0709 Traffic, Rate, and Transportation Clerk
07.0710 Typing
07.0799 Typing, General Office, and Related Programs, Other
- 07.99 **Business and Office, Other**
07.9999 Business and Office, Other
- 08. **Marketing and Distribution**
- 08.01 **Apparel and Accessories Marketing**
08.0101 Apparel and Accessories Marketing, General
08.0102 Fashion Merchandising
08.0103 Fashion Modeling
08.0104 Footwear Marketing
08.0105 Jewelry Marketing
08.0199 Apparel and Accessories Marketing, Other

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08.02 Business and Personal Services Marketing
08.0201 Business and Personal Services Marketing, General
 Advertising (see 09.0201)
08.0202 Display
08.0203 Marketing of Business or Personal Services
08.0299 Business and Personal Services Marketing, Other

Entrepreneurship
08.0301 Entrepreneurship, General
 Small Business Management (see 06.1801)
 Small Business Ownership (see 06.1802)

08.04 Financial Services Marketing
08.0401 Financial Services Marketing, General
08.0402 Banking Marketing
08.0403 Credit Marketing
08.0404 Credit Union Marketing
08.0405 Savings and Loan Marketing
08.0406 Securities and Commodities Marketing
08.0499 Financial Services Marketing, Other

08.05 Floristry, Farm and Garden Supplies Marketing
08.0501 Floristry, Farm and Garden Supplies Marketing, General
08.0502 Farm and Garden Supplies Marketing
08.0503 Floristry
08.0599 Floristry, Farm and Garden Supplies Marketing, Other

08.06 Food Marketing
08.0601 Food Marketing, General
08.0602 Convenience Store Marketing
08.0603 Specialty Foods Marketing
08.0604 Supermarket Marketing
08.0605 Wholesale Food Marketing
08.0699 Food Marketing, Other

08.07 General Marketing
08.0701 Auctioneering
08.0702 Industrial Sales
08.0703 International Marketing
 Marketing Management (see 06.1401)
 Marketing Research (see 06.1402)
08.0704 Purchasing
08.0705 Retailing
08.0706 Sales
08.0707 Wholesaling
08.0799 General Marketing, Other

08.08 Home and Office Products Marketing
08.0801 Home and Office Products Marketing, General
08.0802 Appliance Marketing
08.0803 Building Materials Marketing
08.0804 Floor Coverings, Draperies, and Upholstery Marketing
08.0805 Furniture Marketing
08.0806 Hardware Marketing
08.0807 Office Products and Equipment Marketing
08.0808 Specialty Home Furnishings Marketing
08.0899 Home and Office Products Marketing, Other

08.09 Hospitality and Recreation Marketing
08.0901 Hospitality and Recreation Marketing, General
 Hotel/Motel Management (see 06.0701)
08.0902 Marketing of Hotel/Motel Services
08.0903 Marketing of Recreational Services
 Recreational Enterprises Management (see 06.0702)
08.0904 Recreational Products Marketing
 Resort Management (see 06.0703)
 Restaurant Management (see 06.0704)
08.0905 Waiter/Waitress and Related Services
08.0999 Hospitality and Recreation Marketing, Other

08.10 Insurance Marketing
08.1001 Insurance Marketing, General
08.1002 Accident and Health Insurance Marketing
08.1003 Life Insurance Marketing
08.1004 Property and Casualty Insurance Marketing
08.1099 Insurance Marketing, Other

..... **Real Estate (see 06.17)**
 Real Estate, General (see 06.1701)
 Commercial Property (see 06.1702)
 Property Management (see 06.1703)
 Real Estate Appraisal (see 06.1704)
 Real Estate Finance (see 06.1705)
 Real Estate Law (see 06.1706)
 Residential Property (see 06.1707)
 Real Estate, Other (see 06.1799)

08.11 Transportation and Travel Marketing
08.1101 Transportation and Travel Marketing, General
08.1102 Freight Transportation Marketing
08.1103 Passenger Transportation Marketing
08.1104 Tourism
 Transportation Management (see 06.0705)
08.1105 Travel Services Marketing
08.1106 Warehouse Services Marketing
08.1199 Transportation and Travel Marketing, Other

08.12 Vehicles and Petroleum Marketing
08.1201 Vehicles and Petroleum Marketing, General
08.1202 Agricultural Implements and Machinery Marketing
08.1203 Automotive Vehicles and Accessories Marketing
08.1204 Petroleum Wholesaling
08.1205 Recreational Vehicles and Accessories Marketing
08.1206 Service Station Retailing
08.1207 Vehicle Rental and Leasing
08.1299 Vehicles and Petroleum Marketing, Other

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08.99 *Marketing and Distribution, Other*
08.9999 *Marketing and Distribution, Other*

Communications

09. **Communications**

09.01 *Communications, General*
09.0101 *Communications, General*

09.02 *Advertising*
09.0201 *Advertising*

09.03 *Communications Research*
09.0301 *Communications Research*

09.04 *Journalism (Mass Communications)*
09.0401 *Journalism (Mass Communications)*

09.05 *Public Relations*
09.0501 *Public Relations*

09.06 *Radio/Television News Broadcast*
09.0601 *Radio/Television News Broadcast*

09.07 *Radio/Television, General*
09.0701 *Radio/Television, General*

09.99 *Communications, Other*
09.9999 *Communications, Other*

10. **Communication Technologies**

10.01 *Communication Technologies*
10.0101 *Educational Media Technology*
10.0102 *Motion Picture Technology*
10.0103 *Photographic Technology*
10.0104 *Radio and Television Production and
Broadcasting Technology*
10.0199 *Communication Technologies, Other*

Computer and Information Sciences

11. **Computer and Information Sciences**

11.01 *Computer and Information Sciences, General*
11.0101 *Computer and Information Sciences,
General*

11.02 *Computer Programming*
11.0201 *Computer Programming*

11.03 *Data Processing*
11.0301 *Data Processing*

11.04 *Information Sciences and Systems*
11.0401 *Information Sciences and Systems*

11.05 *Systems Analysis*
11.0501 *Systems Analysis*

11.99 *Computer and Information Sciences, Other*
11.9999 *Computer and Information Sciences,
Other*

Consumer, Personal, and Miscellaneous Services

12. **Consumer, Personal, and Miscellaneous Services**

12.01 *Drycleaning and Laundering Services*
12.0101 *Drycleaning and Laundering Services,
General*
12.0102 *Drycleaning*
12.0103 *Laundering*
12.0199 *Drycleaning and Laundering Services,
Other*

12.02 *Entertainment Services*
12.0201 *Entertainment Services, General*
12.0202 *Bartending*
12.0203 *Card Dealing*
12.0204 *Umpiring*
12.0299 *Entertainment Services, Other*

12.03 *Funeral Services*
12.0301 *Funeral Services*

12.04 *Personal Services*
12.0401 *Personal Services, General*
12.0402 *Barbering*
12.0403 *Cosmetology*
12.0404 *Electrolysis*
12.0405 *Massage*
12.0499 *Personal Services, Other*

12.99 *Consumer, Personal, and Miscellaneous Services,
Other*
12.9999 *Consumer, Personal, and Miscellaneous
Services, Other*

Education

13. **Education**

13.01 *Education, General*
13.0101 *Education, General*

13.02 *Bilingual/Bicultural Education*
13.0201 *Bilingual/Bicultural Education*

13.03 *Curriculum and Instruction*
13.0301 *Curriculum and Instruction*

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- 13.04 Education Administration**
 13.0401 Education Administration, General
 13.0402 Administration of Special Education
 13.0403 Adult and Continuing Education Administration
 13.0404 Educational Supervision
 13.0405 Elementary and Secondary Education Administration
 13.0406 Higher Education Administration
 13.0407 Community College Education Administration
 13.0499 Education Administration, Other
- 13.05 Educational Media**
 13.0501 Educational Media
- 13.06 Evaluation and Research**
 13.0601 Evaluation and Research, General
 13.0602 Adult and Continuing Education Research
 13.0603 Educational Statistics and Research
 13.0604 Educational Testing, Evaluation, and Measurement
 13.0605 Elementary and Secondary Research
 13.0606 Higher Education Research
 13.0699 Evaluation and Research, Other
- 13.07 International and Comparative Education**
 13.0701 International and Comparative Education
- 13.08 School Psychology**
 13.0801 School Psychology
- 13.09 Social Foundations**
 13.0901 Social Foundations
- 13.10 Special Education**
 13.1001 Special Education, General
 13.1002 Education of the Culturally Disadvantaged
 13.1003 Education of the Deaf and Hearing Impaired
 13.1004 Education of the Gifted and Talented
 13.1005 Education of the Emotionally Handicapped
 13.1006 Education of the Mentally Handicapped
 13.1007 Education of the Multiple Handicapped
 13.1008 Education of the Physically Handicapped
 13.1009 Education of the Visually Handicapped
 13.1010 Remedial Education
 13.1011 Specific Learning Disabilities
 13.1012 Speech Correction
 13.1099 Special Education, Other
- 13.11 Student Counseling and Personnel Services**
 13.1101 Student Counseling and Personnel Services
- 13.12 Teacher Education, General Programs**
 13.1201 Adult and Continuing Education
 13.1202 Elementary Education
 13.1203 Junior High Education
 13.1204 Pre-Elementary Education
 13.1205 Secondary Education
 12.1299 Teacher Education, General Programs, Other
- 13.13 Teacher Education, Specific Subject Areas**
 13.1301 Agricultural Education
 13.1302 Art Education
 13.1303 Business Education
 13.1304 Driver and Safety Education
 13.1305 English Education
 13.1306 Foreign Languages Education
 13.1307 Health Education
 13.1308 Home Economics Education
 13.1309 Industrial Arts Education
 13.1310 Marketing and Distributive Education
 13.1311 Mathematics Education
 13.1312 Music Education
 13.1313 Nutritional Education
 13.1314 Physical Education
 13.1315 Reading Education
 13.1316 Science Education
 13.1317 Social Science Education
 13.1318 Social Studies Education
 13.1319 Technical Education
 13.1320 Trade and Industrial Education
 13.1399 Teacher Education, Specific Subject Areas, Other
- 13.14 Teaching English as a Second Language/Foreign Language**
 13.1401 Teaching English as a Second Language/Foreign Language
- 13.99 Education, Other**
 13.9999 Education, Other
- Engineering**
- 14. Engineering**
- 14.01 Engineering, General**
 14.0101 Engineering, General
- 14.02 Aerospace, Aeronautical, and Astronautical Engineering**
 14.0201 Aerospace, Aeronautical, and Astronautical Engineering
- 14.03 Agricultural Engineering**
 14.0301 Agricultural Engineering
- 14.04 Architectural Engineering**
 14.0401 Architectural Engineering
- 14.05 Bioengineering and Biomedical Engineering**
 14.0501 Bioengineering and Biomedical Engineering
- 14.06 Ceramic Engineering**
 14.0601 Ceramic Engineering
- 14.07 Chemical Engineering**
 14.0701 Chemical Engineering

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14.08	Civil Engineering 14.0801 Civil Engineering	14.28	Textile Engineering 14.2801 Textile Engineering
14.09	Computer Engineering 14.0901 Computer Engineering	14.99	Engineering, Other 14.9999 Engineering, Other
14.10	Electrical, Electronics, and Communications Engineering 14.1001 Electrical, Electronics, and Communications Engineering	15.	Engineering and Engineering-Related Technologies
14.11	Engineering Mechanics 14.1101 Engineering Mechanics	15.01	Architectural Technologies 15.0101 Architectural Design and Construction Technology 15.0102 Architectural Interior Design Technology 15.0199 Architectural Technologies, Other
14.12	Engineering Physics 14.1201 Engineering Physics	15.02	Civil Technologies 15.0201 Civil Technology 15.0202 Drafting and Design Technology 15.0203 Surveying and Mapping Technology 15.0204 Urban Planning Technology 15.0299 Civil Technologies, Other
14.13	Engineering Science 14.1301 Engineering Science	15.03	Electrical and Electronic Technologies 15.0301 Computer Technology 15.0302 Electrical Technology 15.0303 Electronic Technology 15.0304 Laser Electro-Optic Technology 15.0399 Electrical and Electronic Technologies, Other
14.14	Environmental Health Engineering 14.1401 Environmental Health Engineering	15.04	Electromechanical Instrumentation and Maintenance Technologies 15.0401 Biomedical Equipment Technology 15.0402 Computer Servicing Technology 15.0403 Electromechanical Technology 15.0404 Instrumentation Technology 15.0499 Electromechanical Instrumentation and Maintenance Technologies, Other
14.15	Geological Engineering 14.1501 Geological Engineering	15.05	Environmental Control Technologies 15.0501 Air Conditioning, Heating, and Refrigeration Technology 15.0502 Air Pollution Control Technology 15.0503 Energy Conservation and Use Technology 15.0504 Sanitation Technology 15.0505 Solar Heating and Cooling Technology 15.0506 Water and Wastewater Technology 15.0599 Environmental Control Technologies, Other
14.16	Geophysical Engineering 14.1601 Geophysical Engineering	15.06	Industrial Production Technologies 15.0601 Chemical Manufacturing Technology 15.0602 Food Processing Technology 15.0603 Industrial Technology 15.0604 Manufacturing Technology 15.0605 Marine Products Technology 15.0606 Optical Technology 15.0607 Plastic Technology 15.0608 Safety Technology 15.0609 Textile Technology 15.0610 Welding Technology 15.0699 Industrial Production Technologies, Other
14.17	Industrial Engineering 14.1701 Industrial Engineering		
14.18	Materials Engineering 14.1801 Materials Engineering		
14.19	Mechanical Engineering 14.1901 Mechanical Engineering		
14.20	Metallurgical Engineering 14.2001 Metallurgical Engineering		
14.21	Mining and Mineral Engineering 14.2101 Mining and Mineral Engineering		
14.22	Naval Architecture and Marine Engineering 14.2201 Naval Architecture and Marine Engineering		
14.23	Nuclear Engineering 14.2301 Nuclear Engineering		
14.24	Ocean Engineering 14.2401 Ocean Engineering		
14.25	Petroleum Engineering 14.2501 Petroleum Engineering		
14.26	Surveying and Mapping Sciences 14.2601 Surveying and Mapping Sciences 14.2602 Cartography		
14.27	Systems Engineering 14.2701 Systems Engineering		

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- 15.07 Quality Control and Safety Technologies**
 - 15.0701 Occupational Safety and Health Technology
 - 15.0702 Quality Control Technology
 - 15.0799 Quality Control and Safety Technologies, Other
- 15.08 Mechanical and Related Technologies**
 - 15.0801 Aeronautical Technology
 - 15.0802 Agricultural Equipment Technology
 - 15.0803 Automotive Technology
 - 15.0804 Marine Propulsion Technology
 - 15.0805 Mechanical Design Technology
 - 15.0899 Mechanical and Related Technologies, Other
- 15.09 Mining and Petroleum Technologies**
 - 15.0901 Coal Mining Technology
 - 15.0902 Mining (Excluding Coal) Technology
 - 15.0903 Petroleum Technology
 - 15.0999 Mining and Petroleum Technologies, Other
- 15.99 Engineering and Engineering-Related Technologies, Other**
 - 15.9999 Engineering and Engineering-Related Technologies, Other

Foreign Languages

- 16. Foreign Languages**
- 16.01 Foreign Languages, Multiple Emphasis**
 - 16.0101 Foreign Languages, Multiple Emphasis
- 16.02 African (Non-Semitic) Languages**
 - 16.0201 African (Non-Semitic) Languages
- 16.03 Asiatic Languages**
 - 16.0301 Chinese
 - 16.0302 Japanese
 - 16.0303 Korean
 - 16.0399 Asiatic Languages, Other
- 16.04 Balto-Slavic Languages**
 - 16.0401 Baltic Languages
 - 16.0402 Russian
 - 16.0403 Slavic Languages (Other than Russian)
- 16.05 Germanic Languages**
 - 16.0501 German
 - 16.0502 Scandinavian Languages
 - 16.0503 Yiddish
 - 16.0599 Germanic Languages, Other
- 16.06 Greek**
 - 16.0601 Greek (Classical)
 - 16.0602 Greek (Modern)
- 16.07 Indic Languages**
 - 16.0701 Hindi
 - 16.0702 Sanskrit
 - 16.0799 Indic Languages, Other

- 16.08 Iranian Languages**
 - 16.0801 Iranian Languages
- 16.09 Italic Languages**
 - 16.0901 French
 - 16.0902 Italian
 - 16.0903 Latin
 - 16.0904 Portuguese
 - 16.0905 Spanish
 - 16.0999 Italic Languages, Other
- 16.10 Native American Languages**
 - 16.1001 Native American Languages
- 16.11 Semitic Languages**
 - 16.1101 Arabic
 - 16.1102 Hebrew
 - 16.1199 Semitic Languages, Other
- 16.99 Foreign Languages, Other**
 - 16.9999 Foreign Languages, Other

Health

- 17. Allied Health**
- 17.01 Dental Services**
 - 17.0101 Dental Assisting
 - 17.0102 Dental Hygiene
 - 17.0103 Dental Laboratory Technology
 - 17.0199 Dental Services, Other
- 17.02 Diagnostic and Treatment Services**
 - 17.0201 Cardiopulmonary Technology
 - 17.0202 Dialysis Technology
 - 17.0203 Electrocardiograph Technology
 - 17.0204 Electroencephalograph Technology
 - 17.0205 Emergency Medical Technology-Ambulance
 - 17.0206 Emergency Medical Technology-Paramedic
 - 17.0207 Medical Radiation Dosimetry
 - 17.0208 Nuclear Medical Technology
 - 17.0209 Radiograph Medical Technology
 - 17.0210 Respiratory Therapy Technology
 - 17.0211 Surgical Technology
 - 17.0212 Ultrasound Technology
 - 17.0299 Diagnostic and Treatment Services, Other
- 17.03 Medical Laboratory Technologies**
 - 17.0301 Blood Bank Technology
 - 17.0302 Chemistry Technology
 - 17.0303 Clinical Animal Technology
 - 17.0304 Clinical Laboratory Aide
 - 17.0305 Clinical Laboratory Assisting
 - 17.0306 Cytotechnology
 - 17.0307 Hematology Technology
 - 17.0308 Histologic Technology
 - 17.0309 Medical Laboratory Technology
 - 17.0310 Medical Technology
 - 17.0311 Microbiology Technology
 - 17.0399 Medical Laboratory Technologies, Other

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17.04	Mental Health/Human Services 17.0401 Alcohol/Drug Abuse Specialty 17.0402 Community Health Work 17.0403 Genetic Counseling 17.0404 Home Health Aide Medical Social Work (see 44.0702) 17.0405 Mental Health/Human Services Assisting 17.0406 Mental Health/Human Services Technology 17.0407 Rehabilitation Counseling 17.0408 Therapeutic Child Care Work 17.0499 Mental Health/Human Services, Other	17.99	Allied Health, Other 17.9999 Allied Health, Other
17.05	Miscellaneous Allied Health Services 17.0501 Animal Technology 17.0502 Central Supply Technology 17.0503 Medical Assisting 17.0504 Medical Illustrating 17.0505 Medical Office Management 17.0506 Medical Records Technology 17.0507 Pharmacy Assisting 17.0508 Physician Assisting-Primary Care 17.0509 Physician Assisting-Specialty 17.0510 Podiatric Assisting 17.0511 Veterinarian Aide 17.0512 Veterinarian Assisting 17.0513 Ward Clerk 17.0599 Miscellaneous Allied Health Services, Other	18.	Health Sciences
17.06	Nursing-Related Services 17.0601 Geriatric Aide 17.0602 Nursing Assisting 17.0603 Obstetrical Technology 17.0604 Pediatric Aide 17.0605 Practical Nursing 17.0606 Ward Service Management 17.0699 Nursing Related Services, Other	18.01	Audiology and Speech Pathology 18.0101 Audiology 18.0102 Speech Pathology 18.0103 Speech Pathology/Audiology 18.0199 Audiology and Speech Pathology, Other
17.07	Ophthalmic Services 17.0701 Ophthalmic Dispensing 17.0702 Ophthalmic Laboratory Technology 17.0703 Ophthalmic Medical Assisting 17.0704 Optometric Assisting 17.0705 Optometric Technology 17.0706 Orthoptics 17.0799 Ophthalmic Services, Other	18.02	Basic Clinical Health Sciences 18.0201 Clinical Anatomy 18.0202 Clinical Biochemistry 18.0203 Clinical Microbiology 18.0204 Clinical Pathology 18.0205 Physiology 18.0299 Basic Clinical Health Sciences, Other
17.08	Rehabilitation Services 17.0801 Art Therapy 17.0802 Corrective Therapy 17.0803 Dance Therapy 17.0804 Exercise Physiology 17.0805 Manual Arts Therapy 17.0806 Music Therapy 17.0807 Occupational Therapy 17.0808 Occupational Therapy Assisting 17.0809 Occupational Therapy Aide 17.0810 Orthotic/Prosthetic Assisting 17.0811 Orthotics/Prosthetics 17.0812 Orthopedic Assisting 17.0813 Physical Therapy 17.0814 Physical Therapy Aide 17.0815 Physical Therapy Assisting 17.0816 Recreational Therapy 17.0817 Recreational Therapy Technology 17.0818 Respiratory Therapy 17.0819 Respiratory Therapy Assisting 17.0820 Speech/Hearing Therapy Aide 17.0821 Speech-Language Pathology/Audiology Therapeutic Recreation Aide (see 20.0607) 17.0899 Rehabilitation Services, Other	18.03	Chiropractic 18.0301 Chiropractic
		18.04	Dentistry 18.0401 Dentistry, General 18.0402 Dental Public Health 18.0403 Endodontics 18.0404 Oral/Maxial Facial Surgery 18.0405 Oral Pathology 18.0406 Orthodontics 18.0407 Pedodontics 18.0408 Periodontics 18.0409 Prosthodontics 18.0499 Dentistry, Other
		18.05	Emergency/Disaster Science 18.0501 Emergency/Disaster Science
		18.06	Epidemiology 18.0601 Epidemiology
		18.07	Health Sciences Administration 18.0701 Health Care Administration 18.0702 Health Care Planning 18.0703 Medical Records Administration 18.0799 Health Sciences Administration, Other
		18.08	Hematology 18.0801 Hematology
		18.09	Medical Laboratory 18.0901 Medical Laboratory

18.10 Medicine
 18.1001 *Medicine, General*
 18.1002 *Allergies and Endomology*
 18.1003 *Anesthesiology*
 18.1004 *Colon and Rectal Surgery*
 18.1005 *Dermatology*
 18.1005 *Emergency Medicine*
 18.1007 *Family Practice*
 18.1008 *Geriatrics*
 18.1009 *Immunology*
 18.1010 *Internal Medicine*
 18.1011 *Neurological Surgery*
 18.1012 *Nuclear Medicine*
 18.1013 *Obstetrics and Gynecology*
 18.1014 *Ophthalmology*
 18.1015 *Orthodontic Surgery*
 18.1016 *Orthopedic*
 18.1017 *Otorhinolaryngology/Otolaryngology*
 18.1018 *Pathology*
 18.1019 *Pediatrics*
 18.1020 *Physical Medicine and Rehabilitation*
 18.1021 *Plastic Surgery*
 18.1022 *Preventive Medicine*
 18.1023 *Psychiatry*
 18.1024 *Neurology*
 18.1025 *Radiology*
 18.1026 *Surgery*
 18.1027 *Thoracic Surgery*
 18.1028 *Urology*
 18.1099 *Medicine, Other*

18.11 Nursing
 18.1101 *Nursing, General*
 18.1102 *Anesthetist*
 18.1103 *Maternal/Child Health*
 18.1104 *Medical Surgical*
 18.1105 *Nursing Administration*
 18.1106 *Psychiatric/Mental Health*
 18.1107 *Public Health*
 18.1199 *Nursing, Other*

18.12 Optometry
 18.1201 *Optometry*

18.13 Osteopathic Medicine
 18.1301 *Osteopathic Medicine*

18.14 Pharmacy
 18.1401 *Pharmacy*

18.15 Podiatry
 18.1501 *Podiatry*

18.16 Population and Family Planning
 18.1601 *Population and Family Planning*

18.17 Pre-Dentistry
 18.1701 *Pre-Dentistry*

18.18 Pre-Medicine
 18.1801 *Pre-Medicine*

18.19 Pre-Pharmacy
 18.1901 *Pre-Pharmacy*

18.20 Pre-Veterinary
 18.2001 *Pre-Veterinary*

18.21 Prosectorial Science
 18.2101 *Prosectorial Science*

18.22 Public Health Laboratory Science
 18.2201 *Public Health Laboratory Science*

18.23 Toxicology (Clinical)
 18.2301 *Toxicology (Clinical)*

18.24 Veterinary Medicine
 18.2401 *Veterinary Medicine*

18.99 Health Sciences, Other
 18.9999 *Health Sciences, Other*

Home Economics

19. Home Economics

19.01 Home Economics, General
 19.0101 *Home Economics, General*

19.02 Business Home Economics
 19.0201 *Business Home Economics*

19.03 Family and Community Services
 19.0301 *Family and Community Services, General*
 19.0302 *Nonformal Education (Extension, Adult/Extended)*
 19.0303 *Family Services*
 19.0399 *Family and Community Services, Other*

19.04 Family/Consumer Resource Management
 19.0401 *Family/Consumer Resource Management, General*
 19.0402 *Consumer Science*
 19.0403 *Family Economics*
 *Home Management (see 20.0109)*
 19.0499 *Family/Consumer Resource Management, Other*

19.05 Food Sciences and Human Nutrition
 19.0501 *Food Sciences and Human Nutrition, General*
 19.0502 *Food/Food Sciences*
 19.0503 *Dietetics/Human Nutritional Services*
 19.0504 *Human Nutrition*
 19.0599 *Food Sciences and Human Nutrition, Other*

..... *Home Economics Education (see 13.1308)*

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19.06	Human Environment and Housing	20.03	Clothing, Apparel, and Textiles Management, Production, and Services
19.0601	Human Environment and Housing, General	20.0301	Clothing, Apparel, and Textiles Management, Production, and Services, General
19.0602	Household Equipment	20.0302	Clothing Maintenance Aide
19.0603	Housing	20.0303	Commercial Garment and Apparel Construction
.....	Interior Design (see 04 0501)	20.0304	Custom Apparel/Garment Seamstress
19.0699	Human Environment and Housing, Other	20.0305	Custom Tailoring and Alteration
19.07	Individual and Family Development	20.0306	Fashion/Fabric Coordination
19.0701	Individual and Family Development, General	20.0307	Textiles Testing
19.0702	Adult Development	20.0308	Wedding/Specialty Consulting
.....	Child Development, Care, and Guidance (see 20.0102)	20.0399	Clothing, Apparel, and Textiles Management, Production, and Services, Other
19.0703	Family Counseling		
19.0704	Family Relations	20.04	Food Production, Management, and Services
19.0705	Geriatric Services	20.0401	Food Production, Management, and Services, General
19.0799	Individual and Family Development, Other	20.0402	Baking
19.08	International/Comparative Home Economics	20.0403	Chef/Cook
19.0801	International/Comparative Home Economics	20.0404	Dietetic Aide/Assisting
19.09	Textiles and Clothing	20.0405	Food Catering
19.0901	Textiles and Clothing, General	20.0406	Food Service
19.0902	Fashion Design	20.0407	Food Testing
19.0903	Textiles and Clothing, Retail	20.0408	School Food Service
19.0904	Textile Science	20.0499	Food Production, Management, and Services, Other
19.0999	Textiles and Clothing, Other	20.05	Home Furnishings and Equipment Management, Production, and Services
19.99	Home Economics, Other	20.0501	Home Furnishings and Equipment Management, Production, and Services, General
19.9999	Home Economics, Other	20.0502	Custom Drapery and Window Treatment Design/Making
20.	Vocational Home Economics	20.0503	Custom Slipcovering and Upholstering
20.01	Consumer and Homemaking Home Economics	20.0504	Floral Design
20.0101	Comprehensive Consumer and Homemaking Home Economics	20.0505	Home Decorating
20.0102	Child Development, Care, and Guidance	20.0506	Home Furnishings Aide
20.0103	Clothing and Textiles	20.0507	Home Service Assisting
20.0104	Consumer Education	20.0599	Home Furnishings and Equipment Management, Production, and Services, Other
20.0105	Exploratory Homemaking	20.06	Institutional, Home Management, and Supporting Services
20.0106	Family/Individual Health	20.0601	Institutional, Home Management, and Supporting Services, General
20.0107	Family Living and Parenthood	20.0602	Companion to the Aged
20.0108	Food and Nutrition	20.0603	Consumer Aide/Assisting
20.0109	Home Management	20.0604	Custodial Services
20.0110	Housing, Home Furnishing and Equipment	20.0605	Executive Housekeeping
20.0199	Consumer and Homemaking Home Economics, Other	20.0606	Homemaker's Aide
20.02	Child Care and Guidance Management and Services	20.0607	Therapeutic Recreation Aide
20.0201	Child Care and Guidance Management and Services, General	20.0699	Institutional, Home Management, and Supporting Services, Other
20.0202	Child Care Aide/Assisting	20.99	Vocational Home Economics, Other
20.0203	Child Care Management	20.9999	Vocational Home Economics, Other
20.0204	Foster Care/Family Care		
20.0205	Teacher Aide		
20.0299	Child Care and Guidance Management and Services, Other		

Industrial Arts

- 21. **Industrial Arts**
- 21.01 **Industrial Arts**
 - 21.0101 *Industrial Arts, General*
 - 21.0102 *Construction*
 - 21.0103 *Drafting and Design*
 - 21.0104 *Electricity/Electronics*
 - 21.0105 *Energy, Power, and Transportation*
 - 21.0106 *Graphic Arts*
 - 21.0107 *Manufacturing/Materials Processing*
 - 21.0199 *Industrial Arts, Other*

Law

- 22. **Law**
- 22.01 **Law**
 - 22.0101 *Law*
 - 22.0102 *Pre-Law*
 - 22.0103 *Legal Assisting*
 - 22.0199 *Law, Other*

Letters

- 23. **Letters**
- 23.01 **English, General**
 - 23.0101 *English, General*
- 23.02 **Classics**
 - 23.0201 *Classics*
- 23.03 **Comparative Literature**
 - 23.0301 *Comparative Literature*
- 23.04 **Composition**
 - 23.0401 *Composition*
- 23.05 **Creative Writing**
 - 23.0501 *Creative Writing*
- 23.06 **Linguistics (Includes Phonetics, Semantics, and Philology)**
 - 23.0601 *Linguistics (Includes Phonetics, Semantics, and Philology)*
- 23.07 **Literature, American**
 - 23.0701 *Literature, American*
- 23.08 **Literature, English**
 - 23.0801 *Literature, English*
- 23.09 **Rhetoric**
 - 23.0901 *Rhetoric*

- 23.10 **Speech, Debate, and Forensics**
 - 23.1001 *Speech, Debate, and Forensics*

- 23.11 **Technical and Business Writing**
 - 23.1101 *Technical and Business Writing*

- 23.99 **Letters, Other**
 - 23.9999 *Letters, Other*

Liberal/General Studies

- 24. **Liberal/General Studies**
- 24.01 **Liberal/General Studies**
 - 24.0101 *Liberal/General Studies*
 - 24.0199 *Liberal/General Studies, Other*

Library and Archival Sciences

- 25. **Library and Archival Sciences**
- 25.01 **Library and Archival Sciences, General**
 - 25.0101 *Library and Archival Sciences, General*
- 25.02 **Archival Science**
 - 25.0201 *Archival Science*
- 25.03 **Library Assisting**
 - 25.0301 *Library Assisting*
- 25.04 **Library Science**
 - 25.0401 *Library Science*
- 25.05 **Museology**
 - 25.0501 *Museology*
- 25.99 **Library and Archival Sciences, Other**
 - 25.9999 *Library and Archival Sciences, Other*

Life Sciences

- 26. **Life Sciences**
- 26.01 **Biology, General**
 - 26.0101 *Biology, General*
- 26.02 **Biochemistry and Biophysics**
 - 26.0201 *Biochemistry and Biophysics*
- 26.03 **Botany**
 - 26.0301 *Botany, General*
 - 26.0302 *Bacteriology*
 - 26.0303 *Mycology*
 - 26.0304 *Plant Genetics*
 - 26.0305 *Plant Pathology*
 - 26.0306 *Plant Pharmacology*
 - 26.0307 *Plant Physiology*
 - 26.0399 *Botany, Other*

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- 26.04 Cell and Molecular Biology**
 26.0401 Cell Biology
 26.0402 Molecular Biology
 26.0499 Cell and Molecular Biology, Other
- 26.05 Microbiology**
 26.0501 Microbiology
- 26.06 Miscellaneous Specialized Areas, Life Sciences**
 26.0601 Anatomy
 26.0602 Biometrics and Biostatistics
 26.0603 Ecology
 26.0604 Embryology
 26.0605 Endocrinology
 26.0606 Histology
 26.0607 Marine Biology
 26.0608 Neurosciences
 26.0609 Nutritional Sciences
 26.0610 Parasitology
 26.0611 Radiobiology
 26.0612 Toxicology
 26.0699 Miscellaneous Specialized Areas, Life Sciences, Other
- 26.07 Zoology**
 26.0701 Zoology, General
 26.0702 Entomology
 26.0703 Genetics, Human and Animal
 26.0704 Pathology, Human and Animal
 26.0705 Pharmacology, Human and Animal
 26.0706 Physiology, Human and Animal
 26.0799 Zoology, Other
- 26.99 Life Sciences, Other**
 26.9999 Life Sciences, Other

Mathematics

- 27. Mathematics**
- 27.01 Mathematics, General**
 27.0101 Mathematics, General
- 27.02 Actuarial Sciences**
 27.0201 Actuarial Sciences
- 27.03 Applied Mathematics**
 27.0301 Applied Mathematics
- 27.04 Pure Mathematics**
 27.0401 Pure Mathematics
- 27.05 Statistics**
 27.0501 Statistics
- 27.99 Mathematics, Other**
 27.9999 Mathematics, Other

Military Sciences

- 28. Military Sciences**
- 28.01 Aerospace Science (Air Force)**
 28.0101 Aerospace Science (Air Force)
- 28.02 Coast Guard Science**
 28.0201 Coast Guard Science
- 28.03 Military Science (Army)**
 28.0301 Military Science (Army)
- 28.04 Naval Science (Navy, Marines)**
 28.0401 Naval Science (Navy, Marines)
- 28.99 Military Sciences, Other**
 28.9999 Military Sciences, Other
- 29. Military Technologies**
- 29.01 Military Technologies**
 29.0101 Military Technologies
 29.0199 Military Technologies, Other

Multi/Interdisciplinary Studies

- 30. Multi/Interdisciplinary Studies**
- 30.01 Biological and Physical Sciences**
 30.0101 Biological and Physical Sciences
- 30.02 Clinical Pastoral Care**
 30.0201 Clinical Pastoral Care
- 30.03 Engineering and Other Disciplines**
 30.0301 Engineering and Other Disciplines
- 30.04 Humanities and Social Sciences**
 30.0401 Humanities and Social Sciences
- 30.05 Peace Studies**
 30.0501 Peace Studies
- 30.06 Systems Science**
 30.0601 Systems Science
- 30.07 Women's Studies**
 30.0701 Women's Studies
- 30.99 Multi/Interdisciplinary Studies, Other**
 30.9999 Multi/Interdisciplinary Studies, Other

Parks and Recreation

- 31. Parks and Recreation**
- 31.01 Parks and Recreation, General**
 31.0101 Parks and Recreation, General

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- 31.02 **Outdoor Recreation**
31.0201 *Outdoor Recreation*
- 31.03 **Parks and Recreation Management**
31.0301 *Parks and Recreation Management*
- 31.04 **Water Resources**
31.0401 *Water Resources*
- 31.99 **Parks and Recreation, Other**
31.9999 *Parks and Recreation, Other*

Personal and Social Development

- 32. **Basic Skills**
- 32.01 **Basic Skills**
32.0101 *Basic Skills General*
32.0102 *Academic and Intellectual Skills*
32.0103 *Communication Skills*
32.0104 *Computational Skills*
32.0105 *Job Seeking/Changing Skills*
32.0106 *Motor Skills*
32.0199 *Basic Skills, Other*

Citizenship/Civic Activities

- 33. **Citizenship/Civic Activities**
- 33.01 **Citizenship/Civic Activities**
33.0101 *Citizenship/Civic Activities, General*
33.0102 *American Citizenship*
33.0103 *Civic Appreciation*
33.0104 *Civic Participation*
33.0199 *Citizenship/Civic Activities, Other*
- 34. **Health-Related Activities**
- 34.01 **Health-Related Activities**
34.0101 *Health-Related Activities, General*
34.0102 *Birth-Related Health Practices*
34.0103 *Health Enhancement Practices*
34.0104 *Health Treatment/Prevention Practices*
34.0199 *Health-Related Activities, Other*

- 35. **Interpersonal Skills**
- 35.01 **Interpersonal Skills**
35.0101 *Interpersonal Skills, General*
35.0102 *Building Human Relationships*
35.0103 *Perception of Others*
35.0104 *Social Role Engineering*
35.0199 *Interpersonal Skills, Other*

- 36. **Leisure and Recreational Activities**

- 36.01 **Leisure and Recreational Activities**
36.0101 *Leisure and Recreational Activities, General*
36.0102 *Crafts (Leisure and Recreational)*
36.0103 *Games*
36.0104 *Hobbies*
36.0105 *Housing/Home Maintenance*
36.0106 *Nature Appreciation*
36.0107 *Pet Care*
36.0108 *Sports/Physical Education*
36.0109 *Travel*
36.0199 *Leisure and Recreational Activities, Other*

37. Personal Awareness

- 37.01 **Personal Awareness**
37.0101 *Personal Awareness, General*
37.0102 *Coping Skills*
37.0103 *Personal Decisionmaking*
37.0104 *Self-Perception*
37.0105 *Values, Attitudes, and Beliefs*
37.0199 *Personal Awareness, Other*

Philosophy, Religion, and Theology

38. Philosophy and Religion

- 38.01 **Philosophy**
38.0101 *Philosophy*
- 38.02 **Religion**
38.0201 *Religion*
- 38.99 **Philosophy and Religion, Other**
38.9999 *Philosophy and Religion, Other*

39. Theology

- 39.01 **Biblical Languages**
39.0101 *Biblical Languages*
- 39.02 **Bible Studies**
39.0201 *Bible Studies*
- 39.03 **Missionary Studies**
39.0301 *Missionary Studies*
- 39.04 **Religious Education**
39.0401 *Religious Education*
- 39.05 **Religious Music**
39.0501 *Religious Music*
- 39.06 **Theological Studies**
39.0601 *Theological Studies*
- 39.99 **Theology, Other**
39.9999 *Theology, Other*

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Physical Sciences

- 40. Physical Sciences**
- 40.01 Physical Sciences, General**
 - 40.0101 Physical Sciences, General
- 40.02 Astronomy**
 - 40.0201 Astronomy
- 40.03 Astrophysics**
 - 40.0301 Astrophysics
- 40.04 Atmospheric Sciences and Meteorology**
 - 40.0401 Atmospheric Sciences and Meteorology
- 40.05 Chemistry**
 - 40.0501 Chemistry, General
 - 40.0502 Analytical Chemistry
 - 40.0503 Inorganic Chemistry
 - 40.0504 Organic Chemistry
 - 40.0505 Pharmaceutical Chemistry
 - 40.0506 Physical Chemistry
 - 40.0599 Chemistry, Other
- 40.06 Geological Sciences**
 - 40.0601 Geology
 - 40.0602 Geochemistry
 - 40.0603 Geophysics and Seismology
 - 40.0604 Paleontology
 - 40.0699 Geological Sciences, Other
- 40.07 Miscellaneous Physical Sciences**
 - 40.0701 Metallurgy
 - 40.0702 Oceanography
 - 40.0703 Earth Science
 - 40.0799 Miscellaneous Physical Sciences, Other
- 40.08 Physics**
 - 40.0801 Physics, General
 - 40.0802 Atomic/Molecular Physics
 - 40.0803 Electron Physics
 - 40.0804 Elementary Particle Physics
 - 40.0805 Fluids and Plasmas
 - 40.0806 Nuclear Physics
 - 40.0807 Optics
 - 40.0808 Solid State Physics
 - 40.0899 Physics, Other
- 40.09 Planetary Science**
 - 40.0901 Planetary Science
- 40.99 Physical Sciences, Other**
 - 40.9999 Physical Sciences, Other
- 41. Science Technologies**
- 41.01 Biological Technologies**
 - 41.0101 Biological Laboratory Technology
 - 41.0102 Oceanographic (Biological) Technology
 - 41.0199 Biological Technologies, Other

- 41.02 Nuclear Technologies**
 - 41.0201 Nuclear Materials Handling Technology
 - 41.0202 Nuclear Power Plant Operation Technology
 - 41.0203 Nuclear Power Plant Radiation Control Technology
 - 41.0204 Radiologic (Physical) Technology
 - 41.0299 Nuclear Technologies, Other

- 41.03 Physical Science Technologies**
 - 41.0301 Chemical Technology
 - 41.0302 Geological Technology
 - 41.0303 Metallurgical Technology
 - 41.0304 Meteorological Technology
 - 41.0305 Oceanographic (Physical) Technology
 - 41.0399 Physical Science Technologies, Other

- 41.99 Science Technologies, Other**
 - 41.9999 Science Technologies, Other

Psychology

- 42. Psychology**
- 42.01 Psychology, General**
 - 42.0101 Psychology, General
- 42.02 Clinical Psychology**
 - 42.0201 Clinical Psychology
- 42.03 Cognitive Psychology**
 - 42.0301 Cognitive Psychology
- 42.04 Community Psychology**
 - 42.0401 Community Psychology
- 42.05 Comparative Psychology**
 - 42.0501 Comparative Psychology
- 42.06 Counseling Psychology**
 - 42.0601 Counseling Psychology
- 42.07 Developmental Psychology**
 - 42.0701 Developmental Psychology
- 42.08 Experimental Psychology**
 - 42.0801 Experimental Psychology
- 42.09 Industrial and Organizational Psychology**
 - 42.0901 Industrial and Organizational Psychology
- 42.10 Personality Psychology**
 - 42.1001 Personality Psychology
- 42.11 Physiological Psychology**
 - 42.1101 Physiological Psychology
- 42.12 Psycholinguistics**
 - 42.1201 Psycholinguistics

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- 42.13 **Psychometrics**
42.1301 *Psychometrics*
- 42.14 **Psychopharmacology**
42.1401 *Psychopharmacology*
- 42.15 **Quantitative Psychology**
42.1501 *Quantitative Psychology*
- 42.16 **Social Psychology**
42.1601 *Social Psychology*
- 42.99 **Psychology, Other**
42.9999 *Psychology, Other*

Public Affairs and Protective Services

- 43. **Protective Services**
- 43.01 **Criminal Justice**
43.0101 *Correctional Administration*
43.0102 *Corrections*
43.0103 *Criminal Justice Administration*
43.0104 *Criminal Justice Studies*
43.0105 *Criminal Justice Technology*
43.0106 *Forensic Studies*
43.0107 *Law Enforcement*
43.0108 *Law Enforcement Administration*
43.0109 *Security Services*
43.0199 *Criminal Justice, Other*
- 43.02 **Fire Protection**
43.0201 *Fire Control and Safety Technology*
43.0202 *Fire Protection Administration*
43.0203 *Firefighting*
43.0299 *Fire Protection, Other*
- 43.99 **Protective Services, Other**
43.9999 *Protective Services, Other*
- 44. **Public Affairs**
- 44.01 **Public Affairs, General**
44.0101 *Public Affairs, General*
- 44.02 **Community Services**
44.0201 *Community Services*
- 44.03 **International Public Service**
44.0301 *International Public Service*
- 44.04 **Public Administration**
44.0401 *Public Administration*
- 44.05 **Public Policy Studies**
44.0501 *Public Policy Studies*
- 44.06 **Public Works**
44.0601 *Public Sanitation*
44.0602 *Public Transportation*
44.0603 *Public Utilities*
44.0699 *Public Works, Other*

- 44.07 **Social Work**
44.0701 *Social Work, General*
44.0702 *Medical Social Work*
44.0799 *Social Work, Other*
- 44.99 **Public Affairs, Other**
44.9999 *Public Affairs, Other*

Social Sciences

- 45. **Social Sciences**
- 45.01 **Social Sciences, General**
45.0101 *Social Sciences, General*
- 45.02 **Anthropology**
45.0201 *Anthropology*
- 45.03 **Archeology**
45.0301 *Archeology*
- 45.04 **Criminology**
45.0401 *Criminology*
- 45.05 **Demography**
45.0501 *Demography*
- 45.06 **Economics**
45.0601 *Economics*
- 45.07 **Geography**
45.0701 *Geography*
- 45.08 **History**
45.0801 *History*
- 45.09 **International Relations**
45.0901 *International Relations*
- 45.10 **Political Science and Government**
45.1001 *Political Science and Government*
- 45.11 **Sociology**
45.1101 *Sociology*
- 45.12 **Urban Studies**
45.1201 *Urban Studies*
- 45.99 **Social Sciences, Other**
45.9999 *Social Sciences, Other*

Trade and Industrial

- 46. **Construction Trades**
- 46.01 **Brickmasonry, Stonemasonry, and Tile Setting**
46.0101 *Brickmasonry, Stonemasonry, and Tile Setting, General*
46.0102 *Brick, Block, and Stonemasonry*
46.0103 *Tile Setting*
46.0199 *Brickmasonry, Stonemasonry, and Tile Setting, Other*

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46.02	Carpentry	47.03	Industrial Equipment Maintenance and Repair
46.0201	Carpentry	47.0301	Industrial Equipment Maintenance and Repair, General
46.03	Electrical and Power Transmission Installation	47.0302	Heavy Equipment Maintenance and Repair
46.0301	Electrical and Power Transmission Installation, General	47.0303	Industrial Machinery Maintenance and Repair
46.0302	Electrician	47.0304	Mine Equipment Maintenance and Repair
46.0303	Lineworker	47.0305	Oil and Gas Drilling Equipment Operation and Maintenance
46.0399	Electrical and Power Transmission Installation, Other	47.0399	Industrial Equipment Maintenance and Repair, Other
46.04	Miscellaneous Construction Trades	47.04	Miscellaneous Mechanics and Repairers
46.0401	Building Maintenance	47.0401	Electromechanical, Hydraulic, and Pneumatic Instrument Repair
46.0402	Concrete Placing and Finishing	47.0402	Gunsmithing
46.0403	Construction Inspection	47.0403	Locksmithing and Safe Repair
46.0404	Drywall Installation	47.0404	Musical Instrument Repair
46.0405	Floor Covering Installation	47.0405	Operation, Maintenance, and Repair of Audio-Visual Equipment
46.0406	Glazing	47.0406	Shoe and Boot Repair
46.0407	Insulation Installation	47.0407	Sporting Goods Equipment Repair
46.0408	Painting and Decorating	47.0408	Watch Repair
46.0409	Plastering	47.0499	Miscellaneous Mechanics and Repairers, Other
46.0410	Roofing	47.05	Stationary Energy Sources
46.0411	Terrazzo Installation	47.0501	Stationary Energy Sources, General
46.0499	Miscellaneous Construction Trades, Other	47.0502	Conventional Electric Power Generation
46.05	Plumbing, Pipefitting, and Steamfitting	47.0503	Industrial Nuclear Energy
46.0501	Plumbing, Pipefitting, and Steamfitting, General	47.0504	Pumping Plants
46.0502	Pipefitting and Steamfitting	47.0599	Stationary Energy Sources, Other
46.0503	Plumbing	47.06	Vehicle and Mobile Equipment Mechanics and Repairers
46.0599	Plumbing, Pipefitting, and Steamfitting, Other	47.0601	Vehicle and Mobile Equipment Mechanics and Repairers, General
46.99	Construction Trades, Other	47.0602	Aircraft Mechanics
46.9999	Construction Trades, Other	47.0603	Automotive Body Repair
47.	Mechanics and Repairers	47.0604	Automotive Mechanics
47.01	Electrical and Electronics Equipment Repair	47.0605	Diesel Engine Mechanics
47.0101	Electrical and Electronics Equipment Repair, General	47.0606	Small Engine Repair
47.0102	Business Machine Repair	47.0699	Vehicle and Mobile Equipment Mechanics and Repairers, Other
47.0103	Communication Electronics	47.99	Mechanics and Repairers, Other
47.0104	Computer Electronics	47.9999	Mechanics and Repairers, Other
47.0105	Industrial Electronics	48.	Precision Production
47.0106	Major Appliance Repair	48.01	Drafting
47.0107	Motor Repair	48.0101	Drafting, General
47.0108	Small Appliance Repair	48.0102	Architectural Drafting
47.0109	Vending and Recreational Machine Repair	48.0103	Civil/Structural Drafting
47.0199	Electrical and Electronics Equipment Repair, Other	48.0104	Electrical/Electronics Drafting
47.02	Heating, Air Conditioning, and Refrigeration Mechanics	48.0105	Mechanical Drafting
47.0201	Heating, Air Conditioning, and Refrigeration Mechanics, General	48.0199	Drafting, Other
47.0202	Cooling and Refrigeration		
47.0203	Heating and Air Conditioning		
47.0299	Heating, Air Conditioning, and Refrigeration Mechanics, Other		

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- 48.02 Graphic and Printing Communications**
 48.0201 *Graphic and Printing Communications, General*
 48.0202 *Bookbinding*
 48.0203 *Commercial Art*
 48.0204 *Commercial Photography*
 48.0205 *Composition, Make-up, and Typesetting*
 48.0206 *Lithography, Photography, and Platemaking*
 48.0207 *Photographic Laboratory and Darkroom*
 48.0208 *Printing Press Operations*
 48.0209 *Silk Screen Making and Printing*
 48.0299 *Graphic and Printing Communications, Other*
- 48.03 Leatherworking and Upholstering**
 48.0301 *Leatherworking and Upholstering, General*
 48.0302 *Saddlemaking and Repair*
 48.0303 *Upholstering*
 48.0399 *Leatherworking and Upholstering, Other*
- 48.04 Precision Food Production**
 48.0401 *Precision Food Production, General*
 48.0402 *Meatcutting*
 48.0403 *Slaughtering and Butchering*
 48.0499 *Precision Food Production, Other*
- 48.05 Precision Metal Work**
 48.0501 *Precision Metal Work, General*
 48.0502 *Foundry Work*
 48.0503 *Machine Tool Operation/Machine Shop*
 48.0504 *Metal Fabrication*
 48.0505 *Metal Patternmaking*
 48.0506 *Sheet Metal*
 48.0507 *Tool and Die Making*
 48.0508 *Welding, Brazing, and Soldering*
 48.0599 *Precision Metal Work, Other*
- 48.06 Precision Work, Assorted Materials**
 48.0601 *Industrial Ceramics Manufacturing*
 48.0602 *Jewelry Design, Fabrication, and Repair*
 48.0603 *Optical Goods Work*
 48.0604 *Plastics*
 48.0699 *Precision Work, Assorted Materials, Other*
- 48.07 Woodworking**
 48.0701 *Woodworking, General*
 48.0702 *Furniture Making*
 48.0703 *Millwork and Cabinet Making*
 48.0799 *Woodworking, Other*
- 48.99 Precision Production, Other**
 48.9999 *Precision Production, Other*
- 49. Transportation and Material Moving**
- 49.01 Air Transportation**
 49.0101 *Air Transportation, General*
 49.0102 *Airplane Piloting and Navigation*
 49.0103 *Aviation Computer Technology*
 49.0104 *Aviation Management*
 49.0105 *Air Traffic Control*
 49.0106 *Flight Attendants*
 49.0199 *Air Transportation, Other*

- 49.02 Vehicle and Equipment Operation**
 49.0201 *Vehicle and Equipment Operation, General*
 49.0202 *Construction Equipment Operation*
 49.0203 *Material Handling*
 49.0204 *Mining Equipment Operation*
 49.0205 *Truck and Bus Driving*
 49.0299 *Vehicle and Equipment Operation, Other*
- 49.03 Water Transportation**
 49.0301 *Water Transportation, General*
 49.0302 *Barge and Boat Operation*
 49.0303 *Commercial Fishing Operation*
 49.0304 *Deep Water Diving and Life Support Systems*
 49.0305 *Marina Operations*
 49.0306 *Marine Maintenance*
 49.0307 *Merchant Marine Officers*
 49.0308 *Sailors and Deckhands*
 49.0399 *Water Transportation, Other*
- 49.99 Transportation and Material Moving, Other**
 49.9999 *Transportation and Material Moving, Other*

Visual and Performing Arts

- 50. Visual and Performing Arts**
- 50.01 Visual and Performing Arts, General**
 50.0101 *Visual and Performing Arts, General*
- 50.02 Crafts**
 50.0201 *Crafts, General*
 50.0202 *Ceramics*
 50.0203 *Enameling*
 50.0204 *Fiber/Textiles/Weaving*
 50.0205 *Glass*
 50.0206 *Metal/Jewelry*
 50.0299 *Crafts, Other*
- 50.03 Dance**
 50.0301 *Dance*
- 50.04 Design**
 50.0401 *Design, General*
 *Environmental Design (see 04.0401)*
 *Fashion Design (see 19.0902)*
 50.0402 *Graphic Design*
 50.0403 *Illustration Design*
 50.0404 *Industrial Design*
 *Interior Design (see 04.0501)*
 *Medical Illustrating (see 17.0504)*
 50.0405 *Theatre Design*
 50.0499 *Design, Other*
- 50.05 Dramatic Arts**
 50.0501 *Dramatic Arts*

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- 50.06** *Film Arts*
 - 50.0601 *Film Arts, General*
 - 50.0602 *Cinematography/Film*
 - 50.0603 *Film Animation*
 - 50.0604 *Holography*
 - 50.0605 *Photography*
 - 50.0606 *Video*
 - 50.0699 *Film Arts, Other*

- 50.07** *Fine Arts*
 - 50.0701 *Fine Arts General*
 - 50.0702 *Art Conservation*
 - *Art Education (see 13.1302)*
 - 50.0703 *Art History and Appreciation*
 - *Art Therapy (see 17.0801)*
 - 50.0704 *Arts Management*
 - 50.0705 *Drawing*
 - 50.0706 *Intermedia*
 - 50.0707 *Kinetics*
 - 50.0708 *Painting*
 - 50.0709 *Sculpture*
 - 50.0799 *Fine Arts, Other*

- 50.08** *Graphic Arts Technology*
 - 50.0801 *Graphic Arts Technology*

- 50.09** *Music*
 - 50.0901 *Music, General*
 - 50.0902 *Music History and Appreciation*
 - 50.0903 *Music Performance*
 - 50.0904 *Music Theory and Composition*
 - 50.0999 *Music, Other*

- 50.99** *Visual and Performing Arts, Other*
 - 50.9999 *Visual and Performing Arts, Other*

INDUSTRY/OCCUPATIONAL MATRIX

The Industrial/Occupational (I/O) Matrix has two basic uses: (1) to present a summary analysis of levels of current occupational employment by major industrial category, and (2) to calculate projected future levels of employment by occupation and industry. Input data for the I/O matrix is usually obtained by completing sample surveys of industries to define levels of occupational employment.

The matrix presented on the following page is very simple and provides information on employment in broad occupational groups and broad industrial categories. A more detailed matrix would list more specific occupations under the broad titles of professional/technical, manager, sales, etc. Appendix E gives the reader some idea of the numbers of occupational categories available using the U.S. Standard Classification of Occupations. In addition, there would be several hundred Industrial Classifications.

The matrix presented is actually a summary of a more detailed matrix from one State in the U.S. The more detailed matrix would be needed if it were to be actually used in planning training programs.

Current Employment: Industrial surveys can provide a profile of occupational employment by industry (e.g., in the sample matrix on the following page there are 1000 professional/technical workers in the mining industry). If one adds the number of professional/technical workers in all industries one can obtain total employment in the occupation (e.g., there area total of 100,000 professional/technical workers in the sample matrix on the following page).

Projected Employment: Once current employment is determined, projected future employment by occupation can be obtained by estimating the growth of each industry, and applying this growth factor to each occupation in each industry. For example, if the mining industry in the following matrix was to grow 10% in the next year (from 306,000 to 336,000) the number of professional/technical workers in manufacturing would also grow 10% (from 10,000 to 11,000). This would result in an overall increase in professional/technical employment in the country (100,000 to 101,000). In order to help ensure these projections are accurate, regular sample industrial surveys must be made to ensure that the occupational profile of each industry is accurate and adjusted for changes in technology, etc. In addition, it must be noted that this future projection only indicates occupational growth. Replacement figures must also be calculated to include death and retirement by occupation. These indicators may be available from Census and Life Insurance tables.

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INDUSTRY/OCCUPATIONAL MATRIX
(Numbers in Thousands)

Broad Occupational Category	Broad Industrial Category									Total By Occu- pation
	Min- ing	Con- struc- tion	Manu- fact- uring During	Trans- porta- tion	Whole- Sale Trade	Retail Trade	Fin- ance Insur- ance	Ser- vices	Public Admin- istra- tion	
Prof. and Tech.	1	5	15	10	10	5	14	10	30	100
Managers	5	3	5	3	4	2	2	3	3	30
Sales	1	1	4	1	15	50	4	3	1	80
Clerical	1	1	16	10	8	16	12	28	8	100
Craft Workers	3	20	75	15	7	10	1	12	7	150
Operators										
Except Trans.	2	1	82	1	1	7	0	5	1	100
Transport	1	1	5	5	2	3	0	2	1	20
All Others	1	1	10	1	2	2	0	2	1	20
Service Workers	1	1	7	2	1	74	4	88	22	200
Laborers	2	24	87	14	19	16	2	17	19	200
TOTAL BY INDUSTRY (Thousands)	18	58	306	62	69	185	39	170	93	1,000

PRODUCT LEVELS	PRESENTATIONS	DEMAND SOURCES	SUPPLY SOURCES	CHARACTERISTICS/ COMPLEMENTARY	GEOGRAPHIC DETAIL	CLASSIFICATION DETAIL
Level 1--Summary Supply/Demand Data Presenta- tion by Occupa- tion or Program Category	Table without description of methods and sources	Projected job openings	Limited coverage of education/ training pro- grams, shown in summary form	Rarely included	National	Tabular presentation limited to a single classification system
Level 2-- Detailed Supply/ Demand Data Presentation Indicating Occupation- Program Re- lationships, with Some Use of Characteris- tics Informa- tion and Ex- planatory Text	<ul style="list-style-type: none"> . Table with description of methods and sources . May have some inter- pretive analysis for broad occupation or program areas 	<ul style="list-style-type: none"> . Current employment . Projected job openings 	Broad coverage of education/ training pro- grams, shown by program	Some characteris- tics information included	<ul style="list-style-type: none"> . National . State 	<p>Classification detail may include both edu- cation program and occu- pation, indicating program-occupation re- lationships. These relationships may be based on:</p> <ul style="list-style-type: none"> . Occupational objec- tives of education programs . Education/training program requirements for entry into an occupation . Actual occupational fields of placement for completers of specific education and training programs
Level 3-- Supply/Demand Analysis and Interpretation with Detailed and Summary Data Displays	<ul style="list-style-type: none"> . Narrative with support- ing tables and statisti- cal presenta- tion . Description of methods and sources 	<ul style="list-style-type: none"> . Current employment . Current job openings . Projected employment . Projected job openings . May include historical information 	<ul style="list-style-type: none"> . Broad coverage of education/ training pro- grams shown by program . Current unem- ployment by occupation 	<ul style="list-style-type: none"> . Available char- acteristics in- formation in- cluded in in- terpretive nar- rative and tab- ular display . Complementary information in- cluded in in- terpretive analysis 	<ul style="list-style-type: none"> . National . State . National information included in interpre- tive analy- sis 	Same as Level 2

1980

SAMPLE DEMAND SUPPLY CHART

The table on the following page provide a sample format for comparing statistical manpower demand and supply data. The sample format has the following elements:

CODES: Occupational and Training program codes are supplied for the data elements used in successive columns. In this case, U.S. Standard Occupation Classification (SOC) and Classification of Instructional Program (CIP) Codes are used. You may not have these codes in the Country you are working in, and as such might leave this column blank.

TITLES: These are the occupational titles related to the demand data sources, and the instructional program titles related to the supply data sources you are using. You may have several related occupational and instructional titles grouped under one unit of analysis (see Appendix K for a sample unit of analysis).

DEMAND DATA: This data includes information on past (1980), current (1986) as well as yearly estimated demand. This data is by occupation and relates directly to the Occupational Codes and Titles that are listed in the first two columns. You will note that the annual demand figure exceeds the annual gain in employment between 1980 and 1986. This is because the annual demand estimate includes both growth and replacement while the yearly difference in employment between 1980 and 1986 only reflects growth.

SUPPLY DATA: This data includes the numbers of graduates with marketable skills that are entering the labor market each year from several different types of institutions. This data is by instructional program and relates directly to the instructional program codes and titles that are listed in the first two columns.

OTHER: This column includes short-term data on labor demand/supply from the employment service labor exchange. The data is listed as demand (job orders) or supply (job applicants). You could include other information, such as wages for occupations in columns 1 and 2, if it was available and you felt it added to the demand/supply analysis.

TABULAR COMPARISON OF LABOR DEMAND WITH INSTITUTIONAL SUPPLY

CODES	TITLE	DEMAND DATA		Yearly Esti- mated Demand	SUPPLY DATA			OTHER
		1980 Past Emp.	1986 Current Emp.		Tech. School	Private School	College Univer- sity	Emp. Service Job Orders/ Applicants
Occ/Tng.	Occupation/Training							
ACCOUNTING/BOOKKEEPING .								
TOTALS		8800	10600	600	50	80	30	
		<u>Demand</u>						
1412	Accountant & Auditor	3600	4200	150				100
4712	Bookkeeper	4200	4800	300				Job Orders
1419	Budget Officer	1000	1600	150				
		<u>Supply</u>						
60201	Accounting					50	30	20
70103	Bookeeping				50	30		Applicants
061901	Taxation					80		
BUSINESS & ADMIN. TOTALS		900	1110	70	50	30	15	
		<u>Demand</u>						
1120	Chief Executive	100	130	10				no Job
1400	General Manager	500	620	30				Orders
4030	Retail Store Mgr.	300	360	30				
		<u>Supply</u>						
060401	General Bus. Admin.					10	5	no
060404	Bus. Efficiency Analysis				10	20		Applicants
061810	Small Bus. Management				40	20	10	

Labour market information through key informants

Report of an evaluation seminar conducted
with the support of DANIDA

17/2/03

I. BASIC CONSIDERATIONS UNDERLYING THE KEY INFORMANTS SYSTEM

A. Theory and practice

The case for the key informants system does not rest on the validity of any hypothesis to be substantiated or rejected by scholarly study. It is rather based on common sense. There is the apparently frequent experience that in all countries one can find many persons who, by virtue of their occupations, interests and local responsibilities, "possess a wide knowledge of manpower and employment patterns at and around their places of residence". On the other hand, there is a great dearth of information of this sort, especially in the informal sectors of developing countries, which cannot be overcome by traditional data collection techniques. These are either not differentiated enough, lack the required frequency or fail to disseminate the results promptly enough. Moreover, any attempt to make habitual sources of manpower and employment information free from these problems and constraints would result in exorbitant costs which most developing countries are unable to bear.

The following question arises logically: Why not "collect the information these people can provide on a comprehensive, systematic and regular basis in the different regions of a country and piece it together to form a meaningful mosaic".¹

This idea of tapping and utilising information from key informants is by no means a new one. In many developed countries some key items of qualitative information have been used for a long time in order to amplify and interpret the data produced by conventional statistical systems. Examples of this are to be found particularly in the use of surveys among leading business firms and public enterprises² in order to estimate short- and medium-term trends of orders, production, investment, employment and labour costs.

A further example is that of obtaining indicators of short-term manpower supply and demand imbalances from the regular contacts which employment services in industrialised countries maintain with major employing establishments. Since they often engage the majority of the workforce in a given labour market area, a fairly representative and reliable picture is obtained of the general situation and trends of employment and, especially, of existing and emerging imbalances in labour supply and demand in this given area.

¹L. Richter: "New sources of manpower information in developing countries", International Labour Review, (Geneva, July-August, 1978) p.456.

²Typical items of key informants data are used in the production of leading indicators (US), surveys of the Confederation of British Industries and surveys of a similar kind in the FRG.

Other examples are the short-term manpower indicators obtained in some countries as a result of laws which provide for large-scale dismissals to be notified to the labour market authorities well in advance of the date of separation.

There are many other fields in which a key informants approach is widely used, such as the forecasting of crop yields during the growing period to obtain harvest forecasts by means of surveys in representative areas. In fact, the well-known difficulty of obtaining information which is both reliable and up-to-date enough for policy- and other decision-making purposes, has been met to a considerable extent in developed countries by using key informants as well as purely statistical estimates.

In the developing countries many community studies have incorporated key informants or "socio-metric informants" into their data gathering exercises.¹ This was particularly the case (in the sixties) when the community development movement as a programme and project approach to integrated rural development reached its zenith.

B. Reasons for the increased interest in KIS

Interest in the key informants system in Asia intensified during the mid-seventies because of an increasing awareness that new approaches to employment and manpower information were called for in order to provide the essential data needed for employment-oriented policies of economic development and for the greater devolution of planning to local levels. Among the factors contributing to this evolution the following were predominant:

- (a) the inability of existing systems or programmes of information (which had mainly evolved from the experience of industrialised countries with the employment services playing a central role) to provide the amount and kind of information needed by planners and policy makers as well as by those carrying responsibility for the effective implementation of manpower and employment policies;
- (b) the difficulties encountered in most countries in building up comprehensive, effective and adaptable manpower services able to provide up-to-date information with sufficient local coverage;
- (c) the preponderance in Asian countries of the informal sector, both in urban and rural areas, which is not reached by the existing employment services with their present terms of reference, forms of organisation and programme priorities, and which cannot be covered by statistical surveys except by incurring excessive costs; and

¹ Manager's Guide to Data Collection, Office of Evaluation, Bureau for Program and Policy Co-ordination, Agency for International Development, Nov. 1979, p.54.

- (d) wider recognition of the fact that even an adequate statistical network of employment and manpower information seeks to describe rather than to explain; that it necessarily refers to the recent past (or in most developing countries to the not-so-recent past) rather than to the present; and that it depicts static employment situations and long-term trends rather than capturing manpower and employment flows, movements and processes of a short-term nature.

Bearing these factors in mind, a key informants approach to the generation of employment and manpower information should not be regarded as a low-cost substitute for comprehensive sources of labour market information. Its main aim should be to supplement these traditional sources and to provide a prompt, up-to-date and efficient method of identifying important local labour market features and of signalling events, changes and trends likely to influence significantly manpower supply and demand relationships at local levels for quick remedial action.

The key informants system should also not be considered as an exercise which will become redundant when a fully developed system of manpower and employment statistics is in operation. The experience of industrialised countries, as already pointed out, shows that this is certainly not the case, although there is an important difference between them and the developing countries. In the former, the role of key informants has become more interpretative, selective and supplementary to the extent that the necessary resources are allocated to support a more comprehensive, sufficiently differentiated and up-to-date manpower management information system.

C. Earlier experience with KIS as a source of manpower information

It should be mentioned that attempts to use some main elements of a key informants approach were made in Pakistan and India in 1975-76. These were mainly concerned with an assessment of existing surpluses and shortages in various occupations. In Pakistan, the coverage was limited to urban areas, while the relevant surveys in India included both rural and urban areas.¹

The main lessons derived from these experiments may be summarised as follows:

In both cases a great deal of manpower information was obtained which was not available before and which, by highlighting the relative importance of a number of manpower and employment problems, identified broad indicators for manpower policy measures. Moreover, they achieved this without the input of additional resources since the surveys were carried out by existing manpower services staff.

¹Research and Statistics Section of Manpower Division, Government of Pakistan: "Labour market situation in Pakistan", Manpower Review (Islamabad, July-September 1975) and Government of India, National Employment Service: Area Skill Survey - Cannanore (New Delhi, 1975).

On the other hand, the two surveys remained one-shot exercises so that they could not be considered a regular source of key informants labour market data. Moreover, certain methodological questions were not answered satisfactorily. For instance, neither survey made it very clear what criteria were used for the selection of the key informants. Nor did they say much about the design of the questionnaires, about how uniformity of interviewing was ensured and about how the problems of personal bias and reliability of information were taken into account. A number of problems met in the organisation and conduct of the surveys were discussed in some detail, while others were only referred to in general terms. In other words, a full assessment of the actual usefulness and the limitations of the approach, including the weighing of the pros and cons, was not undertaken.

D. The need for further systematic testing

For these reasons, the ILO/Japan Regional Workshop on Manpower Assessment and Planning held in Tokyo in 1977 felt that the key informants system as a complementary source of manpower and employment information was not yet sufficiently explored to justify recommending its application on a wider scale. However, the Workshop considered its potential promising enough to suggest a thorough testing.

From these considerations the idea emerged of undertaking a number of tests to investigate the problems of mounting a key informants system in selected areas of different countries and to compare the results and conclusions of these pilot projects, with a view to arriving at some general principles and criteria. This aim governed the terms of the experimental projects which were agreed between the ILO and different national authorities or institutions in India (one test in Northern India and one in Southern India), Malaysia, Sri Lanka, Bangladesh and Thailand. The project in Sri Lanka was limited to one single survey round in an integrated rural development area, while in the other countries four quarterly surveys were envisaged to permit thorough testing in the hope that each succeeding quarterly round could build on the experience of the previous one. Moreover, it was felt that quarterly intervals would suffice to bring out the seasonal variations in employment levels and to detect emerging imbalances in manpower supply and demand early enough without having to resort to surveys at shorter (monthly) intervals which would place intolerable burdens on financial and staff resources.

Unit of Analysis

- A group of individual codes from different classification systems that represent logical relationships between education/training programs and occupations
- This group of codes is the "unit of analysis" for which supply/demand information will be related and analyzed

**SAMPLE UNIT OF
ANALYSIS FOR
BOOKKEEPING AND ACCOUNTING**

<u>OCCUPATIONS</u>	<u>CODES</u>	<u>TRAINING PROGRAMS</u>	<u>CODES</u>
Accountants & Auditors	10240201	Accounting Taxation Accounting, Bookkeeping, & R Accounting & Computing Bookkeeping	
X Budget Analyst	10240202		
2 Tax Examiners, Collectors, Rev.	10240203		
Tax Preparers	10240204		
Bookkeeping/Billing Mach Ops	40040202		
Proof Machine Operators	40020202		
Transit Clerks	40040203		
Calculating Machine Operators	40040402		
Tabulating Machine Operators	40041200		
Accounting Clerks	40064800		
Bookkeepers, Hand	40040603		
Cashiers	40060800		
Payroll, Time Keeping Clerks	40064000		

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REQUIREMENTS FOR LONG AND SHORT TERM STUDY IN THE USA1. Basic Requirements for Long Term Study in The U.S.

There are three main requirements for admission to U.S. institutions of higher education; (1) adequate educational preparation; (2) individual motivation and commitment in the chosen field of study; (3) a good command of the English language.

Prerequisites for undergraduate study

To qualify for undergraduate study in the United States, participants must have completed 12 years of primary and secondary education. Participants with less preparation generally should not be considered, unless they have been an outstanding academic record and/or have already completed a year or two of study at a university in-country or one in a third country.

It is important to make sure that all requests for the educational programs are tied to the development needs of the Host Country. U.S. colleges and universities vary widely in the requirements they set for previous academic achievement. Some have very high exacting standards, while others are more flexible and will take into account individual academic experiences. In practically every instance however, the admitting institution will establish beforehand the requirements for admission into a particular program. This may involve careful examination of the application, the secondary school record, and evaluation of the performance on a standard scholastic aptitude test taken by most college bound students in the United States.

Academic Prerequisites for Graduate Study.

To be eligible for graduate studies, participants should have completed at least four years of study at a university and have earned an academic or professional degree. The participant should also have maintained good grades, have a good command of English, have the necessary motivation and commitment in his or her chosen field of study. In addition, it is important to thoroughly review the request to make sure that it is tied into the manpower training needs of an existing or planned development project. The participant may be required to take additional admission

tests from the requested institute of higher education. Certain professional courses of study such as business, agriculture, public health, medicine, architecture and public administration are given exclusively at the graduate level. It usually takes two years of study to earn a Masters degree and three to five years to complete a doctorate.

2. Prerequisites for Short-Term Training and Technical Training at U.S. Community Colleges

Requests for short-term training should be directly tied into A.I.D.'s ongoing development programs in-country.

Training at U.S. Community Colleges

Two-year colleges have dual roles. They offer studies leading to technical occupations or a transfer program to prepare students for four-year granting institutions.

Prerequisites for Admission to Community Colleges

There are few prerequisites for entry into two-year Community Colleges, and they may be a practical alternative for highly motivated participants who do not qualify for other academic programs. Generally, candidates should have a high school diploma or equivalent, be a minimum of 18 years old and have a good command of English. In addition, it is important to find out the exact prerequisites of selected colleges and their policies for admitting foreign students. In 1985, 15 percent of the four-and-a-half million enrolled students attending community colleges in the U.S. were from other countries. Before considering community colleges, it is important to determine if similar courses are not being offered in a the host country or in a neighboring country.

3. Summary

There are over 3000 colleges and universities and over 1200 Community and Junior Colleges in the United States. Historically, the objectives of higher education in the U.S. have been pragmatic as well as academic. In this respect, higher education in the U.S. has placed a high value on empirical knowledge derived from experience, observation practice and evaluation.

The terms "College" and "University" are often used interchangeably, although the former is often part of the latter. Each American college offers a unique blend of natural and social sciences and humanistic studies. A university is

usually comprised of an undergraduate college of arts and sciences, plus graduate schools or facilities. The number of credits awarded for each course relates to the number of hours of work involved. At the undergraduate level, a student usually takes about five three-hour-a-week courses every semester, (i.e., September to January and February to May) completing 10 courses an academic year, and customarily taking four years to complete a bachelors degree requirement of about 40 three-hour courses or 120 credits. Credit for work is often transferable from community colleges to regular four-year colleges, and between colleges and universities.

18/5/1

TRAINING WORKSHOP FOR USING THE TNAGOBJECTIVES:

- A. To enable personnel to plan project-related training with increased relevance to project, country and candidate needs.
- B. To enable personnel to plan general training with increased relevance to macro manpower demand/supply needs of the country.
- C. To increase the effectiveness of A.I.D. training in meeting occupational staffing needs of projects and the country in general.
- D. To improve the ability to determine the availability of participants for specific occupational categories.
- E. To improve the ability to predict the probability of success of individuals being considered for participant training programs.
- F. To improve the chance of success, both in training and future work for individuals who are selected for participant training programs.

SUGGESTED WORKSHOP PARTICIPANTS

- A. USAID project staff and training personnel
- B. USAID local hire project staff and training personnel
- C. Country personnel involved with project-related and/or general manpower development training programs
- D. USAID Contract staff involved in project, and training program, development and implementation.

WORKSHOP MATERIALS

- A. A Training Needs Assessment Guide (TNAG) for all participants.
- B. Overhead Projector and Transparencies (see page M-5 for suggested workshop master transparencies).
- C. Training Agenda, (see page M-3 for suggested topics).
- D. Problem Work-sheets, see Appendices N and O.

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WORKSHOP FORMAT

It is suggested that the workshop be divided into two sessions:

1. Project related analysis; and
2. Sector labor force analysis

Trainers may emphasize one Section of the TNAG more than the other, depending on whether a majority of the individuals attending are dealing with sector labor force analysis, project related training and/or general training.

SUGGESTED AGENDA

TNAG TRAINING SESSION

Time: Three to four days, (half day each day, AM or PM).

Goal: To train key staff in the use of the TNAG and provide them with necessary skills and materials to help others use the TNAG.

Agenda:

DAY 1 - (3 hours)

A. Welcome, Introductions, Goal of the Training Session

USAID Mission Official

Planning A.I.D. Participant Training Programs.

Why the TNAG was developed.

Overview of the Training Materials and Workshop Format.

B. Overview of the Goal, Audience, Approach, and Content of the TNAG

USAID Official

C. Training on Section I of TNAG - Project Related Analysis

Review of Checklist and Appendices for Diagnosing Project Staffing Needs.

Day 2 - (3 hours)

C. Training on Section I of TNAG, - Cont'd

USAID Official

Review of Checklists and Appendices for Determining Availability of Staff for Training

Review of Checklist and Appendices for Selection of Specific Individuals

Working Problem, Project Related Needs Assessment (Appendix N)

DAY 3 - (3 hours)

D. Training on Section II of TNAG - Sector Labor Force Analysis

USAID Official

Review of Checklist and Appendices to Identify Macro Demand
Supply Information

Review of Checklist and Appendices to Analyze Occupational
Demand Supply Information

DAY 4 - (3 hours)

D. Training on Section II of TNAG, Cont'd

USAID Official

Working Problem, Sector Labor Force Analysis (Appendix 0)

E. Training on Section III of TNAG, Alternatives for Participant
Training

USAID Official

F. Critique of Training Session and TNAG

Complete the following critique form(s) and send to:

Office of International Training (OIT)
Room 201, SA-16
Washington, D.C., 20523

TRAINING MATERIALS FOR USING THE TNAG

<u>Item</u>	<u>Title</u>	<u>Page</u>
Appendix A.	Project Related Checklist Short Forms Checklist for Diagnosing Project Staffing Needs.	
	Checklist for Determining Availability of Staff for Training.	
	Checklist for Selection of Specific Individuals.	
Appendix B.	Sector Labor Force Checklist Short Forms	
	Checklist to Identify Supply/Demand Information	
	Checklist to Analyse Supply/Demand Information	
Figure #1	How to Use This Guide	3
Figure #2	Suggested Ways of Relating USAID Needs	
	Assessment Process to TNAG Contents	4
Figure #3	Project Related Training Needs Assessment Process	6
Figure #4	Diagnose Project Training Needs	11
Figure #5	Staff Availability for Training	13
Figure #6	Selection of Individuals for Training	17
Figure #7	Sector Labor Force Analysis	25
Figure #8	Current Occupational Demand	33
Figure #9	Projected Occupational Demand	36
Figure #10	Occupational Supply Data	38
Figure #12	Demand/Supply Statistical Analysis Issues	45
Figure #13	Demand/Supply Narrative Analysis Issues	53
Appendix C	Project Participant Training Needs Form	
Appendix G	Industry/Occupational Matrix:	

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**Training Needs Assessment Guide
Workshop
Training Evaluation Form**

Please answer the following questions.

Your appraisal of the content of the training program will help make the Training Needs Assessment Manual more relevant to individual A.I.D. overseas missions.

1. Please list the three most useful parts of today's training session.

a.

b.

c.

Please list the three least useful parts of today's training session.

a.

b.

c.

Plases list topics that you feel should be added to the training program.

Do you have any suggestions on the format of The Training Needs Assessment Guide?

Any other suggestions? (please uses the back of this form if you need more space)

WORKING PROBLEM, PROJECT RELATED TRAINING NEEDS ASSESSMENT

Objective:

To give workshop participants practice in using the checklists presented in Section 1 of The Training Needs Assessment Guide.

Checklists are designed to help field staff identify and analyze information relevant to the selection of individuals for inclusion in the Participant Training Program. As a result of the workshop, field staff should be better able to determine whether training programs requested are appropriate, and if not, to suggest alternate strategies.

Note:

The information presented in the following example, drawn from data typical to many developing countries, is designed to allow workshop participants to practise the methodologies in a limited workshop setting and should not be seen as all inclusive.

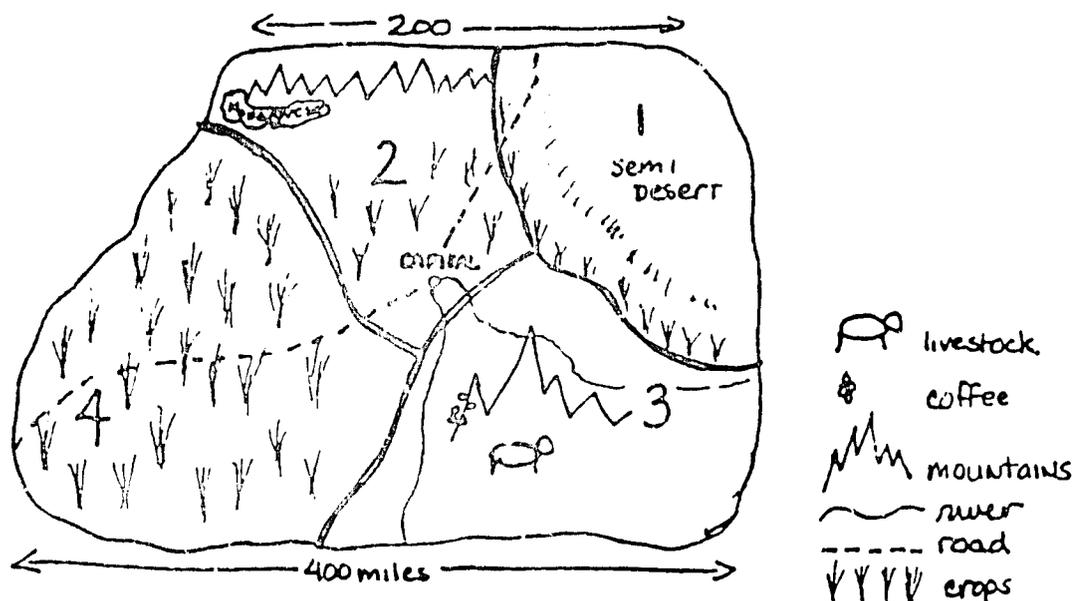
Activity #1: Please read the following profile carefully as the rest of the exercise will be based on the information presented.

Country Setting

TAMALIA

Country Setting

Tamalia is a small Sub-Sahara African country composed of four provinces.



1/2/79

Province 1 is the least populated of the four provinces with most of the population scattered along the internal boarder. The border land is marginal but better than the rest of the province which is semi-desert.

Province 2, the most populated of the provinces, has a little of everything. At the most northern border, the land is desert and semi-desert. The desert land is surrounded by large outcrops of rocks, some large enough to classify as mountains. These mountains suddenly drop off and the balance of the province is flat and pleasant. The capital is located on the only river which flows through the country and most likely was established on its current site because the river begins to wind through the mountains 20 miles from the city.

Province 3 is characterized by rolling hills and high mountains. There is sufficient rainfall and runoff to allow for agricultural development; but the soil is rocky, so much of this province is devoted to livestock production. There are goats and dairy cattle with a few sheep and beef cattle. High on the sides of a few hills and at the lower elevations of the mountains, some coffee is grown.

Province 4 is the most suitable area for agricultural development. The terrain is reasonably flat; the rainfall, although not guaranteed, is fairly dependable. The farms are run by families, and there are few impediments to cooperation among the people who inhabit this land. The standard size farm is about 10 acres, the amount of land that can reasonably be worked by a family. The crops grown are mostly wheat and corn. Vegetables are grown for family consumption and the balance may be sold in a local market. There is a demand for more reasonably priced fruits and vegetables in the city.

PROVINCE SIZE AND POPULATION DATA

<u>PROVINCE</u>	<u>SIZE (SQ. MILES)</u>	<u>POPULATION</u>
Province 1	13,000	400,000
Province 2		
Capital	100	800,000
Balance	14,900	1,500,000
Province 3	16,000	800,000
Province 4	16,000	1,500,000
Total	60,000	5,000,000

Average family size: 6

Most of the rural population survives on traditional subsistence farming practices. There are, however, an increasing number of potential cash crops developing on farms in Provinces 1 and 2.

Tamalia's newly developed five-year plan indicated a critical need to increase agricultural productivity. The plan also identified the need to develop a process to exploit large manganese deposits situated in an inaccessible area of Province 2. The plan emphasized that exporting manganese would generate foreign exchange needed to pay for imported oil. Both the Ministry of Agriculture and the Ministry of Internal Affairs approached A.I.D. for assistance in developing and financing long-term efforts in these two areas.

The Ministry of Internal Affairs accepted recommendations to approach the World Bank for possible funding for the development of a manganese mining facility.

Within the Government of Tamalia, there were widely varying opinions as to how agricultural output could be increased. The planning committee within the Ministry of Agriculture has determined that there was a 30 to 40 percent post harvest grain loss due to infestation of rodents, or general deterioration of the grain due to mold, mildew, etc. This group recommended a grain storage program with rodent control and simple drying methods as a way of increasing overall agricultural production. The extension service within the same ministry recommends that extension services be upgraded and that agricultural students be recruited and sent overseas for intensive training in modern extension practices.

Another division recommends that large quantities of fertilizers be purchased and distributed along with improved seed to farmers in the more fertile areas in the Eastern Provinces on an experimental basis.

Situation in the Ministry of Agriculture

The country, although independent since the mid-sixties, did not begin to develop national talent until the early 70's. The 5 or so years after independence were devoted to "getting organized". Since 1972, however, there has been an effort to improve general education. In 1975, the country recognized that it couldn't rely on foreign technical skills forever and began a program, albeit small, which included both in-country higher education development and higher education training in specific fields in foreign countries. Fortunately the country did not have to rely on its own resources for this training and was able to draw on World Bank funds, U.S., German, British, Japanese and Russian resources. In an effort to standardize sector training, the government requested that the foreign donors limit themselves to technical assistance and training in one or two areas. They requested that the U.S. provide assistance in agriculture and general economics.

Over the past 11 years, 10 "scholarships" per year were granted, and currently there are 60 returned graduates in-country in a variety of agriculture related occupations -- all within the agriculture ministry. In addition, over this same period, a local university was established which provided instruction in agricultural disciplines such as range management, soil science, and farm management. The student population has been very small due to the recently developed basic education system. Since 1980, the University has enrolled 75 students per year and has graduated a total of 120 students. 95 of the 120 are currently employed by the Ministry of Agriculture. These students have all been trained by teams of U.S. educators but the desire is to replace these educators with native teachers.

The Ministry currently has 250 employees but is of the opinion that the ultimate staffing size should be about 400, of which 60% should be professional, 20% para-professional or technical and 20% clerical support. The Ministry organization chart is on the following page.

University Situation

The College of Agriculture is currently staffed with educators who rotate in from the U.S. on two-year assignments. The ultimate aim is to replace these professors with local professors. The professors are drawn from a consortium of five U.S. universities and are charged with identifying students who are promising and can go to the U.S. for post graduate studies and ultimately return to replace the professors. Everyone recognizes that this will be a

very long process. The U.S. professors are in the employ of the Tamalia Government but the government cannot afford to train students in the U.S. and pay for professors at the same time. The faculty structure is as follows:

Ph.D. Agronomist -- 2
Ph.D. Plant Pathologist -- 1
Ph.D. Soil Chemist -- 1
Ph.D. Animal Breeding and Geneticist -- 1
Ph.D. Food Scientist -- 2
MA Irrigation Specialist -- 1
Ph.D. Biologist -- 1

The cost of supporting this staff is approximately \$800,000 per year. Replacing them would save the government over half of this yearly cost. There is a recognition that the faculty is not broad enough to meet the ultimate country needs because there is no depth in the area of Agribusiness and Agricultural Economics. In addition, it is felt that there should be some instruction available on the development of cooperatives and the types of equipment and facilities unique to agriculture including maintenance and repair. The University also has begun construction of two branches to be located in Provinces 3 and 4. This will put a further strain on the already small teaching staff.

Project Concept

After a thorough review of the proposed solutions to the agricultural plight of the country, the A.I.D. project design team decided that the project would be focused on:

- a. Crop Production, with four sub-objectives: (1) improving grain storage, (2) crop production improvement, (3) marketing, and (4) educating rural farmers.
- b. Increasing the number of nationals available to teach in the University Faculty of Agriculture.

They did realize that the grain problems were not limited to storage. Since 30 or 40 percent of the crop would be lost each year to storage problems, it would be necessary to plan for increased grain availability if and when the storage problems were solved. It appeared that the country is able to be adequately supplied at 60% of current production level. The team then considered as another issue, the larger scale production of other crops and the marketing of all types of crops.

Given current budget constraints, the A.I.D. design team realized that they must create a project whose total cost didn't exceed \$15 million over 5 years. The project requires technical assistance on-site to the Ministry of Agriculture as some of the problems can't wait until training is done. In addition, some of the experiments in crop production should be started immediately so there can be results at the end of the five-year program. The cost for this immediate aid is estimated at \$10 million leaving \$5 million for training.

Other Information

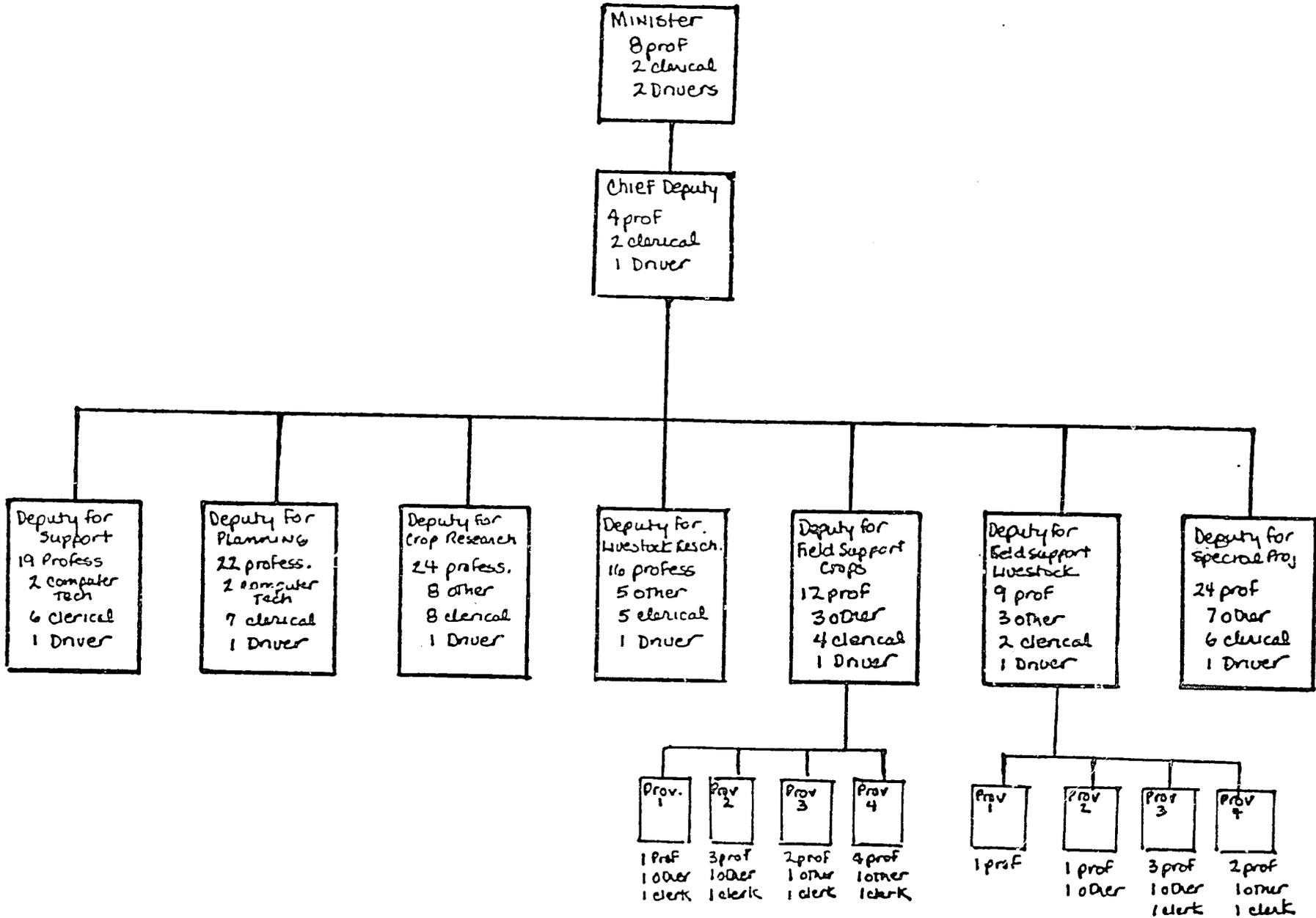
A.I.D. believes that this Ministry is handicapped by the lack of professional staff in all areas. A.I.D. agrees that the Ministry's staffing level is 60% lower than it should be and, in addition, feels there are individuals within the Ministry who could be upgraded. The Ministry has identified 20 potential candidates who exhibit the necessary basic skills to benefit from additional training.

The Ministry receives sufficient applications from entry level personnel to staff to 400 overnight but they cannot use additional untrained people.

A.I.D. officials have advised the Government that the plans for training replacements for foreign professors may fit in the current project but will not be a priority.

Ministry of Agriculture

N-7



total Staffing 250

Professional 155
Admin 37

Clerical 48
Drivers 10

13/11

Activity #2:

Develop an overall (sector level) plan which responds to Tamalia's development priorities. In developing your plan, you will find it helpful to complete the Project Occupational Staffing Needs Form (Appendix C.) and review the items on the Checklist for Diagnosing Project Occupational Staffing (Section 1, Part A, Page 9 of the TNAG).

This will include:

- Defining project objectives.
- Defining tasks related to each objective.
- Identifying appropriate occupational categories, numbers and priorities related to each objective (see TNAG, Appendix E). Your Mission may have purchased a complete copy of the Occupational Description Dictionaries.
- Identifying instructional programs related to occupational categories (see TNAG Appendix F). Your Mission may have purchased a copy of the Classification of Instructional Programs Dictionary. In order to find the Instructional program related to specific occupations you may use the "crosswalk table" described in Appendix D. A copy of the crosswalk table has been provided with the TNAG.
- Identify the approximate training times, in person months for each instructional program (These can be found on the "crosswalk table" described in Appendices D).

Record the information you have gathered on the following two page Narrative Form and on the blank PTTN form. If you need additional help on this Section, refer to Appendix C and D of the TNAG.

NARRATIVE

Occupational Staffing Needs
Availability of Staff
Selection of Staff

Summary Analysis

Overview

Discussion

Occupational Staffing Needs: (From Project Participant Training Needs Form - see blank form next page)

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PROJECT PARTICIPANT TRAINING NEEDS

FORM

Program Sector:

Project Name:

	OCCUPATION							
	TNG. PROGRAM							
Objectives/Tasks								
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
TOTAL NUMBER NEEDED								
TRAINING TIME IN MONTHS								

PRIORITY KEY

- A. Extremely Important over Project life to meet Objectives
- B. Necessary over Project life to achieve all Objectives
- C. Required over short term periods to achieve Objectives.

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Activity #3:

Identify the factors which influence the general availability of skilled manpower in the sectors you have chosen, use the items on the Checklist for Determining Availability of Staff (Section I, Part B, page 12 of the TNAG). Make a summary of the information you find (you may wish to make a copy of the Short Form Checklist found in Appendix A and place your summary directly on this form).

Activity #4:

Review all the information given to date (please make up your own data, if you feel you need additional information, develop a summary outline of the necessary documentation needed to send the group of participants you have chosen to training.

WORKING PROBLEM, SECTOR LABOR FORCE NEEDS ASSESSMENT

Objective: The objective of this working problem is to give workshop participants practice in using TNAG Section II checklist items to help identify and analyze actual information that may be encountered in the field. As a result of this process, the workshop participant must determine if the training program priorities requested by the Government are appropriate, and if not, suggest alternatives.

Note: The sample information and analysis presented is not intended to be complete, but rather provide material to practice TNAG methodology in the limited time available in a workshop setting. Most sample information is drawn from data bases similar to those currently existing in various developing countries.

Activity #1:

Read the following information.

Country Setting

It is 1986. Mandi is a small country with a developmental priority of rapidly increasing its export market in light manufacturing and processed agricultural food products. A major emphasis is on the development of small rural based enterprises to support components of export industries located throughout the country. Infrastructure development (roads, services, and electrification are a major concern) and several large multi-lateral and bi-lateral grants have already been negotiated. The USAID Mission has been informally asked to provide funds for general manpower development by several Ministries and Private Sector concerns. As a result, USAID sector staff have been asked by the Mission Director to obtain information relative to the specific occupations, and duration of training needed from key individuals in the Private and Public sectors. A rough short-list of occupations has been developed by the USAID HRD officer based on this input.

The list includes, but is not limited to, the following occupations: Civil Engineer, Electrical Engineer, Accountant, and Medical Doctor. Most training suggested was at the Bachelors and Graduate levels. Before moving forward with identification of a General Training Project the HRDO officer was asked by the Mission Director to complete a basic macro level analysis of available information to determine if the short-listed suggestions were supported by other than "gut-level" feelings of need. The HRDO assigned a local staff person to identify and obtain manpower demand/supply information using the TNAG checklists as a point of departure.

At the conclusion of this information gathering process, the HRDO worked with the local hire staff person to develop a basic graphical and narrative analysis of the information collected, with related recommendations for development and implementation of a Training Project.

Activity #2:

Read the following information and identify items that relate to TNAG CHECKLIST: SECTION II, A.

IDENTIFICATION OF SUPPLY/DEMAND INFORMATION

The following information was obtained during three weeks of consultation with the Ministries of Planning, Labor, Youth Sports and Training, Education, Labor, Finance, Power and Telephone, Agriculture, Health, Public Works, Census, several Professional Associations including the Medical Society, the Society of Professional Engineers, the Accountancy Registry and Examination Board as well as interviews with staff from several manufacturing companies, construction companies, banks, and hospitals.

- There is a Census that is eight years old, it indicates an employment of Civil Engineers of 100, Electrical Engineers of 150, Accountants of 2000, and Medical Doctors of 1000. No standard occupational classification was used. The Census was a national one and there are no geographic breakouts. These were not felt useful because of the small size of the country, which in essence allows "job commuting" on a daily or possibly weekly basis. There is a fairly high birth rate (3% per year) and 50% of the population was below 20 years of age when the Census was completed.
- Discussion with Banks and other private sector firms indicated that they were having no problem hiring accounting staff. Related discussions with the Accountancy Examination Board indicated that they gave 1000 examinations over the past year with an average pass rate of 70%. All Accountants working in certified positions in Banks, the Civil Service, or preparing legal audits/accounts in the private sector must pass Board examinations to legally hold a certified position. Some 500 of the individuals taking the examination indicated that they were trained in private schools or took City and Guilds external correspondence courses to qualify for the examination. Board records included a number of letters which indicated qualified accountants were working as bookkeepers as an interim measure while waiting for more advanced employment.

- Several large construction firms indicated no problem in hiring civil engineers for large World Bank-funded road construction projects.
- The Ministry of Power indicated a difficulty in hiring electrical engineers as did several construction and wholesale electrical manufacturing companies which were rapidly increasing in size due to special export zone regulations recently implemented by the government.
- The Ministry of Labor had conducted establishment surveys of formal sector employment twice over the past three years (1980/1983) but had no data on projected future employment. These surveys indicated employment levels of 180/300 in 1980 and 1983 respectively for civil engineers, 320/500 (electrical engineering), 1800/4000 (accountant), 1350/1500 (medical doctor). These surveys used the ILO Occupational Classification. There was a Key Informant Survey completed by the ILO in one large urban center two years ago to try to gain insight into urban informal employment which is substantial. This survey indicated that the major focus of this employment was in the retail trade area, market gardening sales, and "funding" or basic maintenance (e.g., welding, auto mechanics, plumbing, etc.).
- The Ministry of Labor, Labor Exchange, only operated in Urban areas, they had no data on engineers or doctors, however, there were some 600 registered accountants looking for positions through the labor exchange in the past 12 months. Only 20 positions were listed as open over the past year. In addition, there were 150 jobs vacancies listed as rural health specialist/midwife/clinic specialist.
- The Ministry of Education had summaries of graduates from different vocational training, technical, and higher education facilities for the past 12 years. This data included the following information: 50 civil engineering graduates per year, 50 electrical engineering, 200 accountants, 50 doctors. The data is not organized around any standard occupational classification system, rather it was reported by educational program. The national university had conducted a follow-up study of graduates in the Engineering faculty two years ago. It indicated that 40 percent of Civil Engineers were unemployed or working as Surveyors and related occupations six months after graduation. The same survey indicated that 87 percent of Electrical Engineers were working in their field of training. The University also had a doctoral thesis completed on the difficulty of filling positions in various engineering fields. This study indicated that electrical

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engineering, due to changes in technology and rapid infrastructure development, was a field that was anticipated to be difficult to fill over the next 10 years.

The Ministry of Health and National Hospital provided summaries of information from its Medical Faculty for the past five years which indicate there were an average of 50 doctors and 100 nurses/midwives graduated per year. The Medical Society kept records on Medical Doctor graduates that indicated an average of 25 per year went to employment out-of-country and that 50 percent had renewed their in-country active licenses in the past year. Several individuals had indicated that they expected to return home at the end of their existing contracts overseas. Although there is relatively little union activity in the Country, the Medical Society holds a strong position with the Ministry of Health relative to setting training standards and operating the registry of qualified Doctors and support personnel in the Country.

Activity #3:

Review the issues outlined in TNAG SECTION II, B, select appropriate solutions, then develop analyses of the information provided in Activity #2. Two types of Analyses are to be developed,

- a. A tabular display of information in a tabular format, the following page has a blank for you to complete (see TNAG Appendix H for possible sample products and Appendix I for sample display of data)
- b. A narrative explanation of the information presented on the table prepared in the previous point. This narrative should address the following elements:
 - What is the general current and projected state of demand/supply in each major occupational category suggested to be included in the Participant Training Program by Country Officials?
 - Should these occupations be included in the Program, if so, how many and at what level?
 - Can/should in-country alternatives be examined for training in these occupations?
 - Did the macro occupational analyses uncover alternate occupational areas that should be included in the Participant Training Program, or should become part of a new special sector project. If so, what are these occupations and what are the recommendations.

TABULAR COMPARISON OF LABOR DEMAND WITH INSTITUTIONAL SUPPLY

<u>CODES</u>	TITLE	<u>DEMAND DATA</u>		<u>SUPPLY DATA</u>			<u>OTHER</u>	
		1980 Past Emp.	1986 Current Emp.	Yearly Estimated Demand	Tech. School	Private School	College Univ.	Emp. Service Job Orders/ Applicants

Occ/Tng.

ENGINEERS

Demand
Supply

ACCOUNTANTS

Demand
Supply

MEDICAL PERSONNEL
(Professional)

Demand
Supply

MEDICAL PERSONNEL
(Technical/Support)

Demand
Supply

5 - 0

1/1/80

APPENDIX P

MATERIALS REVIEWED AND USED IN DEVELOPING TNAG

- Attach, P.G. & Kelly, D.H. 1984 Education for International Development. Washington D.C. National Association for Foreign Student Advisors.
- Dunnbarry, A. & Sicotte, A. 1983 Pluriannual De Courses A Niger 1982-1986 Rapport Technique. Ottawa, Canada. Canadian International Development Agency
- Fretwell, D., 1972 Analysis of Selected Factors that Affect Academic Success, Return Home Rates and Utilization of Training of Foreign Students in The California State College System. (Unpublished Ph.D. dissertation, Oregon State University).
- _____ 1984 A.I.D.'s Participant Training Program Can be Made More Effective. Washington D.C. The Regional Inspector General for Audit.
- Hood, M.A. & Schieffer, K.J. 1983 A Guide for Students from the Developing World. Washington D.C. National Association for Foreign Student Advisors.
- _____ 1978 Selection and Admission of Foreign Students. Washington D.C. National Association for Foreign Student Advisors.
- Lee, M.Y. 1981 Needs of Foreign Students from Developing Nations. Washington D.C. National Association for Foreign Student Advisors.
- _____ 1985 Principles for the Administration of Sponsored Student Programs. Washington D.C. (Advisory Committee) National Association for Foreign Student Advisors.
- _____ 1981 Principles for International Educational Exchange. Washington D.C. The National Association for Foreign Student Advisors.
- _____ Principles For Practical Training Experiences for Foreign Students. Washington D.C. National Association for Foreign Student Advisors.

Method, F.J. 1979 The Development of Skills in LDC's. Washington D.C. The United States Agency for International Development.

Moser, T. & Elmer, L. 1984 Review of Participant Training Evaluation Studies (Part 1 & 2). Washington D.C. The United States Agency for International Development.

_____ 1980 Participant Handbook. Washington D.C. The United States Agency for International Development.

_____ 1981 Handbook #10, Participant Training. Washington D.C. The United States Agency for International Development.

_____ 1985 Draft Guidance for the Development of a Country Training Plan. Washington D.C. The United States Agency for International Development.

_____ 1985 A Strategy Paper on The Implementaton of Participant Training Policy. Washington D.C. The United States Agency for International Development.

_____ A Handbook for Foreign Students. New York. Institute of International Education.

_____ Fulbright Exchanges Through The Institute of International Education. New York The Institute of International Education.

_____ 1981 Occupational Information Systems (OIS) Handbook, Vols I and II. Washington D.C.: Government Printing Office. National Occupational Information Coordinating Committee.

_____ 1980 Standard Occupational Classification (SOC) Manual. Washington D.C. , U.S. Government Printing Office. U.S. Department of Commerce, Office of Federal Statistical Policy and Standards (Price: \$17.00).

_____ 1981 A Classification of Instructional Programs (CIP), U.S. Government Printing Office. Washington D.C., National Center for Educational Statistics (Price \$7.50) Note: this document was under revision in Aug. 1986 and only available in restricted quantities, a summary level update was available from the Office of Educational Research and Improvement, Office of Education at no charge.

_____ 1968 International Standard Classification of Occupations (ISCO), International Labor Organization, Geneva (Note: this document was out of print in 1986 and a new edition was expected within the year).

_____ 1986 National Crosswalk Service Center, Products and Services, 523 East 12th Street, Des Moines, Iowa, 50319, Phone 515/281-6356

APPENDIX Q

WANG DISC CONTAINING CONTENTS OF TNAG

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SUGGESTED
SCOPE OF WORK
FOR MISSION USE IN CONTRACTING OUT
TRAINING NEEDS ASSESSMENT

INTRODUCTION:

This section is a draft sample scope of work that a Mission could adapt and use to define resources required to implement a Training Needs Assessment following those procedures outlined in the Training Needs Assessment Guide (TNAG).

The scope of work is intended as an outline of the activities, products, and a best guess estimate of the personal resources required to implement the TNAG process either with Mission and/or contract personnel. This material is a suggested scope of work which requires adaptation to the requirements of the individual Mission/host country situation. The resource requirements needed to implement the TNAG process will vary depending on the:

- Level and availability of training assessment and labor market information expertise on-staff at a Mission.
- Knowledge Mission staff have of the availability of training assessment and labor market information in the host country.
- Quality and quantity of labor market information in the host country.
- Degree to which Mission, or contactor, can gain access to host country labor market information.
- Number of projects, and the number of sectors, to which the Mission intends to apply the TNAG process.

Given these factors, the Mission should review the scope of work and adjust the amount of resources available to implement the TNAG process.

SCOPE OF WORK

1. BACKGROUND:

Participant Training is one of A.I.D.'s most important contributions to international development. A.I.D.'s Office of Inspector General (IG) has identified a need, particularly during the project design phase, to better estimate the type of training and number of host country staff who should receive training within a given development activity. To assist A.I.D. Missions better estimate project training requirements, a methodology has been prepared for assessing training needs.

The Training Needs Assessment Guide (TNAG), with instructions for use as well as checklists of issues to be considered in planning A.I.D. activities is available from the Office of International Training (OIT). The TNAG provides guidelines for use by A.I.D. project staff or contractors who develop PIDs, PPs and Country Training Plans, in order to improve the overall relevance, performance and cost-effectiveness of A.I.D. sponsored training. The TNAG was prepared for OIT by the Bureau of International Labor Affairs of the Department of Labor. It uses a diagnostic approach to the two primary types of training needs assessments which should be conducted by a Mission including :

- Determining the requirements for, and the availability of, skilled staff needed for A.I.D. funded project implementation.
- Identification of sectoral or economy-wide occupational supply-demand imbalances.

The TNAG contains elements that may not apply to any particular Mission or host government. The methodology must be adapted to fit the Mission and country specific situation. The text of the following scope of work is written to be applied as a contract document although it is recognized that a given Mission may complete the scope of work with internal staff, contracted assistance, or a combination of both. The foot notes to the scope of work provide guidance which highlight adaptations which need consideration as a Mission finalizes its own scope of work.

II DESCRIPTION OF WORK TO BE PERFORMED:

The Contractor is to perform an assessment of training needs in (country) for the A.I.D. Mission. This assessment will follow the format suggested in the Training Needs Assessment Guide (TNAG). The goal of this assessment is to help improve the overall relevance of A.I.D. supported training in the public and private sectors. The work will be in two Phases (1) project related needs assessment, and (2) sector labor force needs assessment (*).

A. Phase I Objective: To identify the need and availability of occupationally qualified personnel necessary for implementation of A.I.D. funded development projects (**).

Activity #1: Review the TNAG process describing the Project related Training Needs Assessment process and adapt that process to Country environment:

- Meet with A.I.D. Mission staff to determine availability and knowledge of training assessment information to support assessment process.
- Meet with host country personnel to determine availability of information to support assessment process.
- Adapt TNAG project related needs assessment process to fit Mission and host country environment

Product #1: Written adaptation of TNAG project related needs assessment process to host country environment.

* Footnote: In preparing the final scope of work, one of both of these Phases could be included in the scope of work and/or contract. This decision is up to the Mission.

** Footnote: In preparing the final scope of work for Phase I it will be necessary to determine the number of project related training needs assessments that will be completed. The activities, products, and resource requirements defined in this general scope of work relate to one project. Although there are economies of scale in replicating the the assessment process over several projects it must be emphasized that multiple project assessments will require replication of most assessment activities, particularly if the projects are in different sectors.

Activity #2: Diagnose project participant training needs using adapted TNAG project related needs assessment process:

- Identify project objectives.
- Identify project tasks.

- Identify project occupations and related training programs.
- Identify training criteria.
- Identify time-line for training.

Product #2: Summary of project participant training needs in format adapted from TNAG example.

Activity #3: Determine the availability of staff for training for each of the occupations needed to support project implementation.

Activity #4: Evaluate the probability of the success of training for particular individuals (nationals) in project occupational categories.

- Review background information on particular individuals and evaluate probability of success in training based on adapted TNAG criteria.

Product #4: Summary report on probability of success of individuals nominated for training in each project occupational category.

B. Phase II Objective: To define sector labor force manpower demand/supply relationship in order to assist the decision making process relative to development of the A.I.D. Mission Country Development Strategy Statement (CDSS), development of Mission project concept papers, and implementation of Mission participant training program as described in the Country Training Plan (*).

Activity #1: Review TNAG materials describing the Sector Labor Force Needs Assessment Process and adapt that process to the host country environment (**).

- Meet with Mission staff to determine availability and knowledge of labor force information to support the assessment process.
- Identify and meet with host country personnel to determine availability of labor force information to support the assessment process.
- Adapt TNAG project sector labor force needs assessment process to fit Mission and host country environment.

Product #1: Written adaptation of TNAG labor force needs assessment process to host country environment and recommendation for continuation of assessment process based on availability of labor force information.

* Footnote: In preparing final scope of work for Phase II it will be necessary to determine the number of sectors for which sector related labor force needs assessments will be completed. The activities and products and resource requirements defined in this general scope of work relate to one sector. Although there are economies of scale in replicating the assessment process over several sectors it must be emphasized that multiple assessments will require replication of many assessment activities.

** Footnote: In preparing final scope of work for this Phase it should be recognized that completion of this activity may result in a recommendation that there is insufficient labor force information available in the country to conduct a macro labor force needs assessment of one or more sectors. This eventuality should be recognized in the scope of work/contract document unless Mission staff are sufficiently familiar with the data sources at the outset and feel that necessary data is available. If a recommendation to suspend further labor force analysis due to lack of data is made at the end of activity #1, Mission will need to determine if it: (1) concurs, and (2) how it wishes to proceed. If Mission concurs the labor force needs assessment should be aborted, alternatives may be considered for obtaining the information. Such as, how can Mission encourage and assist development of labor market and planning information in the country.

Activity #2: Identify macro demand/supply information for the sector using adapted TNAG process.

- Identify and obtain sector current occupational demand data.

- Identify and obtain sector projected occupational demand data.

- Identify and obtain sector occupational supply data.

Product #2 Summaries of macro demand/supply information by occupation for the sector.

Activity #3: Statistical and narrative labor force manpower demand/supply relationships in order to assist the decision making process relative to the Country Development Strategy Statement (CDSS) development, development of sector related project concept papers, and implementation of sector Participant Training Programs.

III SUPPORT DOCUMENTATION

In order to support implementation of this scope of work, the following documentation will be provided by the Mission:

- One copy of the Mission Training Needs Assessment Guide.
- One copy of the Appendices of the Training Needs Assessment Guide (TNAG).

- One copy of the WANG Compatible Word Processing disk containing the TNAG and Appendices.
- Access to one copy of the U.S. Standard Occupational Classification (SOC) Manual.
- Access to one copy of the U.S. Classification of Instructional Programs (CIP).
- Access to one copy of the CIP/SOC Crosswalk Tables including the estimated training times for specific occupations.

V. RESOURCE REQUIREMENTS TO IMPLEMENT THE ASSESSMENT PROCESS (*)

A. Phase I Personnel Resource Requirements: to identify the need and availability of occupationally qualified personnel necessary for implementation of agency financed development projects (**).

Activity/Product #1: Written adaptation of TNAG project related needs assessment process to host country environment:

3 days professional time

2 days secretarial support

Activity/Product #2: Summary of project participant training needs in format adapted from TNAG example.

3 days professional time

1 day secretarial support

Activity/Product #3: Summary of the availability of staff for training for each of the occupations needed to support project implementation.

3 days professional time

1 day secretarial support

Activity/Product #4: Summary report on probability of success of individuals nominated for training in each project occupational category.

3 days professional time

1 day secretarial support

Total Personal Resources: 12 days professional time/project

5 days support staff time/project

* Footnote: Budget/Resource requirements are estimates of the amount of professional and support staff time required to implement each of the TNAG activities and create related products. A Mission may elect to implement these activities with "in-house" staff, contacted support personnel, or a combination of both. Once this decision is made, additional budget parameters (local/international travel and per diem, overhead rates, etc.) can be added to the budget. Professional staff person day estimates are based on use of personnel who are familiar with agency participant training procedures and identification and analysis of labor market information in developing countries.

** Footnote: This budget is for one project related needs assessment. As outline, the first assessment is estimated to take approximately 12 days of professional staff time and 5 days of support staff time. Successive assessments are estimated to take a reduced amount of time (9 professional staff days and 3 days of secretarial staff) because activity/product #1 (TNAG adaptation will have been completed during the first assessment. Additional economies of scale may also be possible if the same personnel are used and/or successive assessments are made on projects in the same sector.

B. Phase II: To define sector labor force manpower demand/supply relationships in order to assist the decision making process relative to Country DEvelopment Strategy Statement (CDSS) development, development of project concept papers, and implementation of Participant Training Programs (*).

Activity/Product #1: Written adaptation of TNAG labor force needs assessment process to host country environment and recommendation for continuation of assessment process base on availability of labor force information:

5 days professional time

3 days secretarial support time

Activity/Product #2: Summaries of macro demand/supply information by occupation for the sector.

10 days professional time

3 days secretarial support time

Activity/Product #3 Statistical and narrative labor force analyses for the sector in a format adapted from the TNAG example.

10 days professional time

5 days secretarial support time

Total Personnel Resources: 25 days professional time/sector
11 days support staff time/sector

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* Footnote: This budget is for one sector labor force needs assessment. As outline, the first assessment is estimated to take approximately 25 days of professional staff time and 11 days of support staff time. Successive assessments are estimated to take a reduced amount of time (20 professional staff days and 8 days of secretarial staff) because activity/product #1 (TNAG adaptation) will have been completed during the first assessment. Additional economies of scale may also be possible if the same personnel are used on successive assessments in different sectors as they will be familiar with data sources which provide information across sector in the host country.

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