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Abstract (<i>summary of most significant information, 250 word limit; optional</i>): This work was completed in response to the following contract deliverable: at least two significant trade capacity building-related institutional strengthening initiatives effectively formulated and implementation initiated in sectoral areas jointly agreed upon by USAID and the GOC. Colombia TCBS developed and implemented a training program for officials at the Ministry of Social Protection (SENA) to build their capacity to do market forecasting and monitor labor markets.	
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COLOMBIA PRODUCTIVA TRAINING COURSE ON TOOLS FOR LABOR MARKET ANALYSIS

Course Design

Directed to: Officials of the Ministry of Social Protection, SENA (National Training Service) and DANE (Department of Statistics)

The course includes four modules as follows:

1. Module on labor market theory
2. Module on quantitative tools for labor market analysis.
3. Module on basic use of STATA.
4. Module on household survey methodology

PURPOSE OF EACH MODULE:

1. Labor market theory (50 hours of instruction)

The purpose of this module is to familiarize the participants with the basic concepts of labor market theory and most important determinants of income levels, income differences, employment, and unemployment. It will include topics such as labor supply and demand, human capital accumulation, theories of unemployment.

2. Quantitative tools for labor market analysis (50 hours of instruction, hands-on)

The aim of this course is to equip participants with the basic quantitative tools necessary to undertake good quality analysis of labor market issues.

Since this course will have an extensive practical component, in which participants will work with actual Colombian data, it will be necessary that the household surveys be available and that participants have access to necessary computers.

3. STATA module (12 hours of instruction, hand-on)

The purpose of this activity is to provide the basic necessary knowledge for the participant to be able to use the household surveys (which will be set up in STATA format) in their day-to-day work with labor market issues. As in the case of module 2, it will be necessary that the household surveys be available and that participants have access to necessary computers.

4. Household survey methodology (10 hours)

This module will familiarize the participants with the design and methodology of household surveys in order to give them a working understanding of both the potential and the limitations of such tool of analysis.

DETAILED COURSE CONTENT

TOPICS ON LABOR MARKET THEORY		Hours of Instruction
Individual labor supply		4
Participation individual decisions		6
Market labor supply		4
Labor demand in the short run		6
Labor demand in the long run		6
Demand for different types of labor		4
Labor market functioning		4
Compensatory differences		4
Introduction to Human Capital Theory		6
Unemployment theories		6
QUANTITATIVE TOOLS FOR LABOR MARKET ANALYSIS		Hours of Instruction
Data description: Mean median, mode, variance, standard deviation. Grouped and non-grouped data. Frequencies, Chebychev's theorem		4
Probability, approaches to probability, rules (addition and multiplication)		4
Random variables, distributions (discrete and continuous)		2
Some important distributions (binomial, normal). Use of these distributions		4
Population and samples. Sampling, point estimates, interval estimates		4
Confidence intervals, Estimation errors, sample size		4
Hypotheses testing, large samples, small samples, proportions		4
Analysis of Variance ANOVA		2
Correlation		2
Simple regression		8
Multiple regression		12
STATA TRAINING		Hours of Instruction
Introduction, entering the program, use of help. Saving your work		2
Using Stata data bases. Creating variables, use of the gen-command		2
Creating variables using more complex commands (egen-command)		2
Use of routines (Sum, Tab, Tab-sum, others)		2
Reading text files. Creating do-files.		2
Regression. Conditional regression.		2
HOUSEHOLD SURVEYS METHODOLOGY		
Presentation of the general household survey project. Analysis of the questionnaire		4
Sampling process stratified random sampling, expansion factors.		4
How representative are the continuous and the quarterly surveys for disaggregated analysis		2