

PREPARE

URBAN DISASTER RESILIENCY
AND PREPAREDNESS IN
TRINIDAD + TOBAGO



RAPID DAMAGE ASSESSMENT TRAINER'S MANUAL

February 2022 - TRINIDAD AND TOBAGO



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Urban Disaster Resiliency and Preparedness in Trinidad and Tobago (PREPARE TT)

The goal of PREPARE TT is to provide a clearer picture of the probable impact of an urban earthquake disaster and facilitate advocacy and planning initiatives around strengthening seismic disaster risk reduction and preparedness measures in Trinidad and Tobago; to reduce the lives lost, people injured, internally displaced persons, and social and economic disruption.

The U.S. Agency for International Development (USAID)

The U.S. Agency for International Development is an independent U.S. federal agency responsible for planning and administering economic and humanitarian assistance around the world.

The Bureau for Humanitarian Assistance (BHA)

The Bureau for Humanitarian Assistance provides life-saving humanitarian assistance—including food, water, shelter, emergency healthcare, sanitation and hygiene, and critical nutrition services— to the world’s most vulnerable and hardest-to-reach people. BHA is the lead federal coordinator for international disaster assistance, harnessing the expertise and unique capacities of other U.S. government entities to effectively respond to natural disasters and complex crises around the world.

BHA takes a holistic look at humanitarian aid, providing assistance before, during and after a crisis—from readiness and response to relief and recovery. This includes non-emergency programming that is foundational to linking humanitarian assistance to long-term development and the journey to self-reliance.

Miyamoto International, Inc.

Miyamoto International is a global structural engineering and disaster risk management reduction firm providing resiliency expertise that sustains industries and safeguards communities around the world.

Acknowledgements

With the approval of the Government of Trinidad and Tobago the PREPARE TT program is being implemented. The lead government agency for the program is the Officer of Disaster Preparedness and Management, Ministry of National Security.

This RDA Trainer’s Manual was prepared by Engineers Dr. Navin Ramroop and Mr. Datta Balroop of Tharuna Limited with guidance from the PREPARE TT Program’s Technical Advisory Committee for Rapid Damage Assessment (RDA) which included representatives of the Office of Disaster Preparedness and Management (ODPM), APETT, BOETT, Miyamoto, MOWT, MRDLG, TTBS.

Disclaimer

This protocol is made possible by the support of the American People through the United States Agency for International Development (USAID) its Bureau for Humanitarian Assistance (BHA). The contents of this protocol are the sole responsibility of Miyamoto International and do not necessarily reflect the views of USAID or the United States Government.

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ACRONYMS AND NOTATIONS

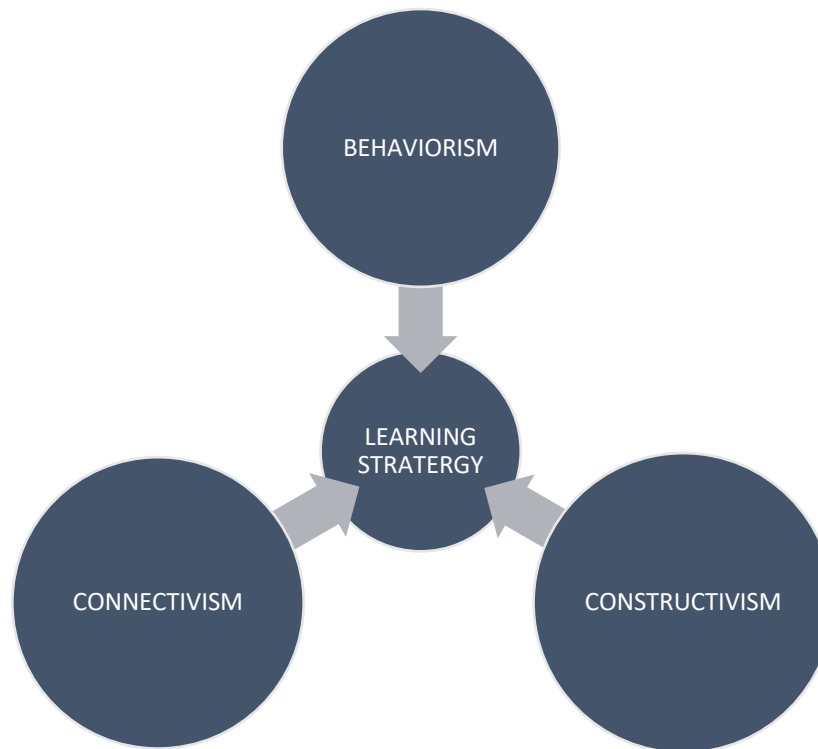
APETT	Association Professional Engineers of T&T
BOETT	Board of Engineers of Trinidad and Tobago
GoRTT	Government of the Republic of Trinidad and Tobago
MNS	Ministry of National Security
MOWT	Ministry of Works and Transport
MRDLG	Ministry of Rural Development and Local Government
ODPM	Office of Disaster Preparedness and Management
T&T	Trinidad and Tobago
TEMA	Tobago Emergency Management Agency
THA	Tobago House of Assembly
TTBS	Trinidad and Tobago Bureau of Standards
USAID BHA	United States Agency for International Development, Bureau of Humanitarian Assistance (formerly USAID OFDA)
USAID OFDA	United States Agency for International Development, Office of Foreign Disaster Assistance
UWI-SRC	University of the West Indies Seismic Research Centre

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INTRODUCTION

This document is intended to guide persons who will be conducting training sessions for Rapid Damage Assessment (RDA) inspectors. The main pedagogical aspect for conducting sessions is instructive as the trainer will be informing the use of the RDA forms as well as the software. The program is designed for participants with varying learning abilities and age groups (*for this program Group A will be participants forty years and older, and Group B – participants younger than 40 years old*) and so, instruction is carried out via various educational strategies. These include:

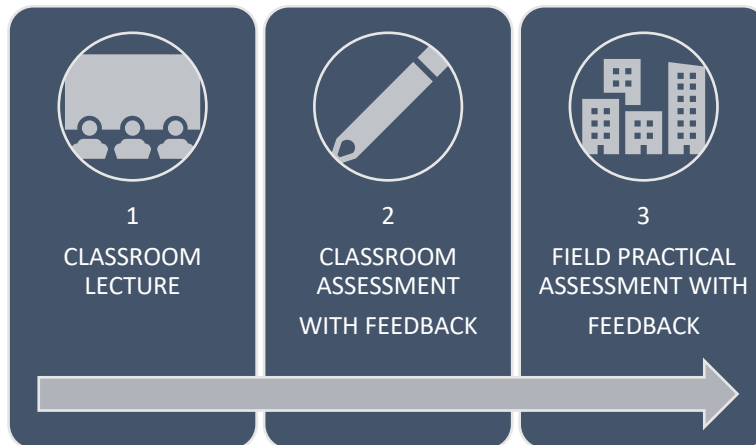


1. **Behaviorist Pedagogy:** This is the main construct for the entire program due to its instructive nature. The core of the learning strategy is learning through instruction. This is most effective for Group A participants.
2. **Connectivist Pedagogy:** This strategy is utilized throughout the programme. Information is conveyed to the learner by various means such as Media (a PowerPoint presentation) and a practical session. Participants will be grouped together to discuss various elements of the programme, and apply the classroom session to the field exercise. This is an excellent method to reinforce the material for Group A participants, however, its main purpose is designed to maximize the learning potential of Group B participants.

3. Constructivist Pedagogy. This learning strategy is all about the 'hands-on approach'. This aims to promote learning by doing. The practical aspect of this course reinforces the classroom material for both learning groups.

PROGRAMME STRUCTURE

The course programme has three (3) main components.



On successful completion of this training course, the participant would be able to:

Knowledge and Understanding:

1. Express an understanding of the use of the RDA forms.
2. Describe the procedure for conducting an RDA inspection.
3. Explain the various building tags and their placement.

Intellectual skills:

4. Identify necessary equipment needed for inspection.
5. Distinguish various levels of damage to a structure.
6. Identify the critical areas of a structure to be inspected.

7. Practical skills:

8. Use form A (paper and Software based) for inspecting a building.
9. Use form B (paper and Software based) for inspecting a bridge.

THE CLASSROOM

The classroom component is a PowerPoint lecture that is delivered by a trained instructor. The following timeline is suggested for the session:

Day 1





- 8:30 am – Participants register and seated
- 9:00 am – Start
- 10:30 am – Break (20 mins)
- 10:50 am – Continue
- 11:30 am – Administer assessment
- 11:45 am – Discussion of answers for assessment
- 12:00 noon – Close for Lunch
- 1:00PM- In house Practical sessions




Day 2

- 8:30 am – Participants register and seated
- 9:00 am – Start
- 10:30 am – Break (20 mins)
- 10:50 am – Continue
- 11:30 am – Practical sessions
- 11:45 am – Discussion of digital application
- 12:00 noon – Course Close




INSTRUCTOR'S GUIDANCE NOTES





The following pages has guidance notes that correspond to each slide which the trainer should use. The trainer is also encouraged to draw from their own experiences in the field as well and apply it to the session.




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 440 961 1068" style="border: 1px solid black; padding: 20px; text-align: center;">  <h1 data-bbox="233 678 852 789" style="color: blue; margin: 20px 0;">RAPID DAMAGE ASSESSMENT TRAINING</h1> <p data-bbox="306 873 779 971" style="color: red; margin: 0;"> CONDUCTED BY: <i>Instructor's Name</i> LOCATION: <i>Venue</i> DATE: <i>Long Date</i> </p> <div data-bbox="121 1000 961 1068" style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">    </div> </div>	<ol style="list-style-type: none"> <li data-bbox="1056 280 1675 305">1. The PREPARE TT and its stakeholders are introduced: <ol style="list-style-type: none"> <li data-bbox="1150 329 1272 354">a. ODPM <li data-bbox="1150 378 1268 402">b. USAID <li data-bbox="1150 427 1514 451">c. MIYAMOTO INTERNATIONAL <li data-bbox="1150 475 1276 500">d. MOWT <li data-bbox="1150 524 1268 548">e. APETT <li data-bbox="1150 573 1272 597">f. BOETT <li data-bbox="1056 711 1444 735">2. The instructor is introduced by: <ol style="list-style-type: none"> <li data-bbox="1150 760 1268 784">a. Name <li data-bbox="1150 808 1325 833">b. Credentials <li data-bbox="1150 857 1381 881">c. Work Experience <li data-bbox="1150 906 1738 930">d. Work Experience relevant to Damage Assessment
SLIDE 1	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">LEARNING OBJECTIVES</p> <p>On successful completion of this training course, the participant would be able to:</p> <p>Knowledge and Understanding:</p> <ol style="list-style-type: none"> 1. Express an understanding of the use of the RDA forms. 2. Describe the procedure for conducting an RDA inspection. 3. Explain the various building tags and their placement. <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div>	<p>There are 3 components of the learning objectives, these are:</p> <ol style="list-style-type: none"> i. Knowledge and Understanding, ii. Intellectual skills and iii. Practical skills. <p>Describe each sub-item in relation to the course.</p> <p>Refer to page 6-11 of the user guide</p>
SLIDE 2	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="163 402 724 448" data-label="Section-Header"> <h2>LEARNING OBJECTIVES</h2> </div> <div data-bbox="163 493 905 557" data-label="Text"> <p>On successful completion of this training course, the participant would be able to:</p> </div> <div data-bbox="163 618 373 646" data-label="Section-Header"> <p>Intellectual skills:</p> </div> <div data-bbox="163 664 848 781" data-label="List-Group"> <ol style="list-style-type: none"> 4. Identify necessary equipment needed for inspection. 5. Distinguish various levels of damage to a structure. 6. Identify the critical areas of a structure to be inspected. </div> <div data-bbox="117 899 968 971" data-label="Image"> </div>	<div data-bbox="1052 280 1890 695" data-label="List-Group"> <ol style="list-style-type: none"> 1. The instructor briefly explains either: <ol style="list-style-type: none"> a. Each item individually OR b. All items collectively 2. It should be stated explicitly that this programme is intended for training inspectors to use the two forms (A & B) and that they should already have some experience in inspection of structures. 3. It should be also stated that this course is NOT intended to train inspectors to identify/analyze the severity of defects however, it will cover major defects and where to locate them. </div>
SLIDE 3	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="117 282 966 922"> <h2 data-bbox="165 354 726 396">LEARNING OBJECTIVES</h2> <p data-bbox="165 446 909 509">On successful completion of this training course, the participant would be able to:</p> <p data-bbox="165 571 342 597">Practical skills:</p> <ol data-bbox="165 617 953 734" style="list-style-type: none"> 7. Use form A (paper and Software based) for inspecting a building 8. Use form B (paper and Software based for inspecting a bridge 9. Register and use the RDA Kobo Humanitarian digital application <div data-bbox="117 846 966 922">    </div> </div>	<ol data-bbox="1100 282 1850 308" style="list-style-type: none"> 1. The instructor reads this slide and proceeds to the next slide
SLIDE 4	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="117 277 963 914"> <h2 data-bbox="163 350 369 391">Contents</h2> <ol data-bbox="163 428 499 792" style="list-style-type: none"> 1. Purpose of Training 2. Background 3. Form A 4. Form B 5. Tagging 6. Using the Kobo Application 7. What You Need 8. Inspection Procedure 9. Critical Inspection Points 10. Inspection Safety 11. Assessment  <p data-bbox="604 821 894 841">(Photograph Credit Miyamoto Intl.)</p> <div data-bbox="117 846 963 914">    </div> </div>	<ol data-bbox="1052 282 1892 695" style="list-style-type: none"> 1. The presentation outline is introduced by itemizing the contents and learning objectives, also assumptions i.e. already qualified and experienced C/S engineers/technicians 2. The instructor mentions the assessment at the end of the presentation. Refers the participants to the RDA Guideline Form A&B reference guide and to the protocol. No mention of the assessment being multiple choice will be made at this time. 3. Successful candidate be determined through two assessments. A written assessment and a field exercise. The written carries a weighting of 50% and the practical 50%. Trainers must achieve a minimum score of 90% while RDA inspectors must make a minimum score of 70%. The instructor mentions the practical session at its scheduled location.
SLIDE 5	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 495 957 1122" style="border: 1px solid black; padding: 10px;"> <h2 style="text-align: center; color: #0070C0;">PURPOSE OF TRAINING</h2> <ul style="list-style-type: none"> • To train inspectors to use specific forms for the rapid inspection of structures. • To supplement training in identifying various defects of structures. • To reinforce safety procedures during post-disaster inspection of structures.  <p style="text-align: center; font-size: small;">Apartment complex in Haifa, Israel (Photograph Credit Dr R. Farhat)</p> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;"> <div style="text-align: center;">  <p>USAID <small>FROM THE AMERICAN PEOPLE</small></p> </div> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>miyamoto.</p> </div> </div> </div>	<ol style="list-style-type: none"> 1. The instructor briefly explains either: <ol style="list-style-type: none"> a. Each item individually OR b. All items collectively 2. It should be stated explicitly that this programme is intended for training inspectors to use the two forms (A & B) and that they should already have some experience in inspection of structures. 3. It should be also stated that this course is NOT intended to train inspectors to identify/analyze the severity of defects however, it will cover major defects and where to locate them. <p>The protocol for activating the use of the assessors at Levels 1 , 2 and 3 events needs to be covered by MOWT, MRDLG and TEMA</p>
SLIDE 6	

BACKGROUND

Urban Disaster Resiliency and Preparedness in Trinidad and Tobago (PREPARE TT)

The goal of PREPARE TT is to provide a clearer picture of the probable impact of an urban earthquake disaster and facilitate advocacy and planning initiatives around strengthening seismic disaster risk reduction



Residential Structure in Bingöl, Turkey
(Photograph Credit B. Yön *et al.*)



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The Urban Disaster Resiliency and Preparedness in Trinidad and Tobago (PREPARE TT)

Aims to clarify what can happen post disaster and in doing so urge the development of disaster mitigation and reduction

And by doing this (next slide)

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

BACKGROUND

Urban Disaster Resiliency and Preparedness in Trinidad and Tobago (PREPARE TT)

Also to provide preparedness measures in Trinidad and Tobago; to reduce the lives lost, people injured, internally displaced persons, and social and economic disruption.



Residential Structure in Bingöl, Turkey

(Photograph Credit B. Yön *et al.*)



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(narration continued from previous slide)

The negative social and economic impact from disaster events can be reduced through preparedness measures.

SLIDE 8

BACKGROUND

Purpose of the RDA

The Rapid Damage Assessment (RDA) tool is used for the inspection of structures so that any misunderstandings or varied assessments after a disaster occurs, is minimized.



Commercial Structure in Kidapawan
Town, Philippines
(Photograph Credit J. Hollingsworth)



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The instructor reads this slide and briefly explains

- A Rapid Damage Assessment (RDA) instrument has been developed for use after a natural disaster. Civil/structural engineers and engineering technicians (trained in using the RDA forms), would be deployed post-disaster to inspect buildings and bridges and determine their fitness for occupancy or use.
- The RDA has been specifically, developed to allow an inspector to complete an assessment in under thirty minutes. The evaluation of the structure is conducted using a fillable form with predetermined items for the inspector to check.
- There is also a software application that inspectors can use on a mobile device that can be used instead of the paper-based version. This document is intended to guide civil/structural engineers who will be conducting training sessions for RDA inspectors.

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="113 228 968 870"> <h2 style="text-align: center;">RDA ACTIVATION PROTOCOL</h2> <pre> graph TD A[Municipal/ TEMA Situation Assessment DANA ISO, IDHNA] --> B[RDA Surge capacity needed?] B --> C[1st. Other Municipal Inspectors; Tobago DIQUD] C --> D[2nd. ODPM NEOC (MOWT/APETT)] </pre> </div>	<p>See Rapid Damage Assessment (RDA) Operations Protocol. The RDA shall generally be used after a Level 2* greater disaster event where it is deemed that any building or bridge structure/s may have become unsafe due to the event or there is the desire/need to determine, by rapid assessment, the integrity of a building or bridge</p> <ol style="list-style-type: none"> 1. Municipalities /TEMA initiate emergency action plan for assessments: Damage and Need Assessment (DANA) Continuum: Initial situation Overview (ISO), Initial Damage Assessment (IDA), Initial Disaster Humanitarian Needs Assessment IDHNA 2. Log all incoming requests for assessment and prioritise critical and non-critical structures 3. Determine the need for RDA surge capacity and initiate additional resource requests through MRDLG and (L2/3) the ODPM, NEOC (MOWT/APETT). For Tobago through DQUID and TEMA EOC 4. Coordinate and receive permission from within the agency to carry out the assessments 5. Structures like schools or shelters or other critical structures within a region shall be prioritized and assessed within one or two days (Level1 & 2 events); c.3 days -4 weeks post-ex Level 3 events 6. Assess non-critical structures after critical structures have been assessed. <p>*Level 1 Very localized hazard/disaster event (within a municipality or Tobago) Level 2 Hazard event impacting multiple municipalities of such a serious nature that it affects/threatens multiple loss of life, property, environment, economic damage. A disaster area(s) may be declared Level 3 A national scale hazard impact/disaster</p>
SLIDE 10	

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

RDA FORMS

FORM A

Used for the inspection of Buildings

FORM B

Used for the inspection of Bridges



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1. Invite participants to view their personal copy of the form and follow along each section.
2. The result from completing these forms is structure tagging.
3. This is literally placing a coloured tag on the structure once the inspection (and form) is complete.
4. The tags determine how fit the structure is for use or occupancy.
5. A green tag means its Safe
6. A yellow tag means it has restricted use and or access.
7. A red tag means it is unfit for use or occupancy and even entry.
8. Now we will go though how to use each of these forms in detail.

SLIDE 11

FORM A

Used for Building Structures

Composed of 5 sections

- SECTION A – General Details of Structure
- SECTION B – Assessment Particulars
- SECTION C – Structural Details
- SECTION D – Visual Observation of Damages
- SECTION E –Rapid Damage Assessment Summary

GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO
RAPID DAMAGE ASSESSMENT FORMS (RDA)
FORM A - Building Structures

SECTION A - GENERAL DETAILS OF STRUCTURE

NAME OF BUILDING: _____
 ADDRESS: _____
 REGIONAL COORDINATE: _____

SECTION B - ASSESSMENT PARTICULARS

APPLICANT: _____
 SUBSEQUENCE: _____
 DATE OF THE: _____

SECTION C - STRUCTURAL DETAILS

SUBSTRUCTURE - NUMBER OF STORIES: _____
 BUILDING USE: _____

SECTION D - VISUAL OBSERVATION OF DAMAGES

STRUCTURAL MEMBER	DAMAGE				TOTAL
	CRACK	DISPLACEMENT	SPALL	OTHER	
Column					
Beam					
Slab					
Wall					
Other					
TOTAL					





SECTION E - RAPID DAMAGE ASSESSMENT SUMMARY




Overall Rating: _____
 RDA Inspector: _____



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1. Instructor to outline each section.
2. Invite participants to view their personal copy of the form and follow along each section.

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="149 363 932 649">  <p>GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO RAPID DAMAGE ASSESSMENT FORM (RDA) FORM A – Building Structures</p> <p>SECTION A1 – GENERAL DETAILS OF STRUCTURE</p> <p>HOMEOWNER OR BUILDING NAME: UNIVERSITY TRAINING CENTRE</p> <p>ID #: 01234567</p> <p>ADDRESS: UNIVERSITY DRIVE</p> <p>(Number and Street Address)</p> <p>TOTO (City/Town) 012345 (Postal Code)</p> <p>REGIONAL CORPORATION: TOCOSANGREGRANDE</p> <p>GPS (LOCATION): L O N 106918 L A T 612225</p> </div> <div data-bbox="132 716 947 786">    </div>	<ol style="list-style-type: none"> 1. The instructor refers the participants to page 21 of the User's Guideline 2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
SLIDE 13	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 399 961 529"> <p>SECTION BI – ASSESSMENT OF PARTICULARS</p> <p>RDA INSPECTOR ID # <input type="text" value="01234567"/> Structure Collapse <input type="text" value="A/C"/> <small>(i.e. Yes/No)</small></p> <p>INSPECTION DATE <input type="text" value="01/03/21"/> INSPECTION START TIME <input type="text" value="10:13"/> <input checked="" type="checkbox"/> A M <small>D D - M M - Y Y</small> <small>H R : M M</small> <input type="checkbox"/> P M</p> <p>DISASTER TYPE <input type="text" value="EARTHQUAKE"/> DETAILS (if Other) <input type="text"/> <small>(i.e. Tropical Cyclone, Earthquake, Flood, Landslide, Tsunami or Other)</small></p> </div> <div data-bbox="121 716 968 792">    </div>	<ol style="list-style-type: none"> 1. The instructor refers the participants to page 22 of the User's Guideline and explains each fillable item 2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
SLIDE 14	

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

RATING X IR = SUM

SECTION DJ – VISUAL OBSERVATION OF DAMAGES

STRUCTURAL DAMAGES						NON-STRUCTURAL DAMAGES							
Details	Ratings				IN/NA	IR	SUM	Details	Ratings				IN/NA
	0	1	2	3					0	1	2	3	
External walls						3	6	Cladding/glazing					
External columns						3	3	Ceiling					
External beams						3	6	Electrical					
Foundations						3		HVAC					
Ground Floor						3		Plumbing					
Internal Columns						3	3	Waste water					
Internal Beams						3		EXTERNAL SITE DAMAGES					
Framed Connections						3		Details					
Staircases						3	3	Utility poles					
Elevated floors						3		Trees					
Roof connections						3	6	Landslips					
Rafters						1		Adjacent structure					
Roof sheeting						1		Other					
Parapet						1	3						

IR – Importance Rating
 0 – None 1 – Minor 2 – Moderate 3 – Major

IN – Indeterminable
 NA – Not Applicable

PICTURE ATTACHED YES NO (i.e. Yes/No) TOTAL

1. The instructor refers the participants to page 30 of the User's Guideline and explains each fillable item
2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
3. The SUM calculation is explained by example. Participants are asked to use their calculators/cell phones to do the calculation.
4. The instructor MUST impress the importance to do correct calculations and mention that in the past there were simple arithmetic errors in the calculation.
5. Participants are encouraged to recheck their work.



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POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

SECTION E] – RAPID DAMAGE ASSESSMENT SUMMARY

ASSESSMENT POSITION/TAG OF STRUCTURE		35	
No to Minor Damage	Can Be Occupied	ND 0>51	Green
Moderate Damage	Can Be Occupied with Restrictions	MD 52>102	Yellow
Significant/Heavy Damage	Entry Prohibited/Do Not Occupy	HD 102>153	Red

TYPE OF ASSESSMENT CONDUCTED: **COMBINATION** (i.e. Internal, External, or Combination)

FURTHER ASSESSMENT REQUIRED: **N/A** (i.e. Yes/No)

REMARKS/COMMENTS: ADJACENT UTILITY POLES CAUSED DAMAGE OF CLADDING TO FRONT OF BUILDING

INSPECTION END TIME: 10:51 AM

RDA Inspector

Produced for the Prepare TT Project in collaboration with The Office of Disaster Preparedness and Management (ODPM) Association of Professional Engineers of Trinidad and Tobago | Board of Engineering of Trinidad & Tobago | Ministry of Local Government and Rural Development | Ministry of National Security | Ministry of Works and Transport | Miyamoto International | Tobago House of Assembly – Division of Infrastructure, Quarries and the Environment | Trinidad & Tobago Bureau of Standards

1. The instructor refers the participants to page 31 of the User's Guideline and explains each fillable item
2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
3. Additional explanations can be given for the REMARKS/COMMENTS section by means of examples
4. At this point the instructor stops and asks if any of the participants has any questions or would like to revisit any of the previous slides.



SLIDE 17

INSTRUCTOR'S GUIDANCE NOTES

FORM B

Used for Bridges


Composed of 5 sections

- SECTION A – Assessment Particulars
- SECTION B – Structure Location
- SECTION C – Structural Details
- SECTION D – Visual Observation of Damages
- SECTION E – Rapid Damage Assessment Summary

1. Instructor to outline each section.
2. Invite participants to view their personal copy of the form and follow along each section.



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POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="128 326 951 548" data-label="Form">  <p>GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO RAPID DAMAGE ASSESSMENT FORM (RDA) FORM B – Bridges</p> <p>SECTION A1 – ASSESSMENT PARTICULARS</p> <p>RDA INSPECTOR ID # <input type="text" value="012345"/> Structure Collapse <input type="text" value="No"/> <small>(i.e. Yes/No)</small></p> <p>INSPECTION DATE <input type="text" value="02/02/11"/> INSPECTION START TIME <input type="text" value="09:30"/> <small>D D - M M - Y Y</small> <small>H R : M M</small> <input checked="" type="checkbox"/> A M <input checked="" type="checkbox"/> P M</p> <p>DISASTER TYPE <input type="text" value="TROPICAL CYCLONE"/> DETAILS (If Other) <input type="text" value="BRIDGE CURRENTLY CLOSED"/> <small>(i.e. Tropical Cyclone, Earthquake, Flood, Landslide, Tsunami or Other)</small></p> </div> <div data-bbox="117 683 963 753" data-label="Image"> </div>	<ol style="list-style-type: none"> <li data-bbox="1100 280 1822 337">1. The instructor refers the participants to page 32-39 of the User's Guideline and explains each fillable item for form B <li data-bbox="1100 418 1881 475">2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
SLIDE 19	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
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[SECTION B] – STRUCTURE LOCATION

Bridge Name

ID #

Location

(Road/Street Address)

(City/Town) (Postal Code)

REGIONAL CORPORATION



GPS (LOCATION) L A T L O N

1. The instructor refers the participants to page 34 of the User's Guideline and explains each fillable item

2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.



SLIDE 20	
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POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES																		
<div data-bbox="113 462 968 630" style="border: 1px solid black; padding: 5px;"> <p>[SECTION C] – STRUCTURAL DETAILS</p> <p>FOOTPRINT <input type="text" value="56"/> F T X <input type="text" value="25"/> F T</p> <p>Number of Vehicles Lanes <input type="text" value="2"/> Pedestrian <input type="text" value="0"/></p> <p>TYPOLOGY (choose typology and expressed the percentage)</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="text" value="100"/></td> <td>Prestressed Concrete Girder</td> <td><input type="text"/></td> <td><input type="text"/></td> <td>Structural Steel Truss</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="text"/></td> <td>Structural Steel Girder</td> <td><input type="text"/></td> <td><input type="text"/></td> <td>Suspension</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="text"/></td> <td>Timber Girder</td> <td><input type="text"/></td> <td><input type="text"/></td> <td>Other: _____</td> </tr> </table> </div> <div data-bbox="100 802 978 875" style="background-color: #0070C0; color: white; padding: 10px; display: flex; justify-content: space-between; align-items: center;">   miyamoto. </div>	<input checked="" type="checkbox"/>	<input type="text" value="100"/>	Prestressed Concrete Girder	<input type="text"/>	<input type="text"/>	Structural Steel Truss	<input type="checkbox"/>	<input type="text"/>	Structural Steel Girder	<input type="text"/>	<input type="text"/>	Suspension	<input type="checkbox"/>	<input type="text"/>	Timber Girder	<input type="text"/>	<input type="text"/>	Other: _____	<ol style="list-style-type: none"> 1. The instructor refers the participants to page 35 of the User's Guideline and explains each fillable item 2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
<input checked="" type="checkbox"/>	<input type="text" value="100"/>	Prestressed Concrete Girder	<input type="text"/>	<input type="text"/>	Structural Steel Truss														
<input type="checkbox"/>	<input type="text"/>	Structural Steel Girder	<input type="text"/>	<input type="text"/>	Suspension														
<input type="checkbox"/>	<input type="text"/>	Timber Girder	<input type="text"/>	<input type="text"/>	Other: _____														
SLIDE 21																			

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

RATING X IR = SUM

SECTION DJ – VISUAL OBSERVATION OF DAMAGES


STRUCTURAL DAMAGES						NON-STRUCTURAL DAMAGES											
Details						Details											
Ratings					IN/NA	IR	Ratings					IN/NA					
0	1	2	3	0			1	2	3								
Girders			✓			3											
Piers		✓				3											
Abutments			✓			3											
Wingwall					✓	3											
Truss	✓					3											
Deck		✓				3											
EXTERNAL SITE DAMAGES												TOTAL	<input type="text" value="34"/>				
Details												PICTURE ATTACHED	<input type="text" value="YES"/>				
Ratings					IN/NA	IR						(i.e. Yes/No)					
0	1	2	3	0			1	2	3								
Utility poles		✓				1											
Trees	✓					1											
Landslips			✓			3											
Adjacent structure	✓					2											
Watercourse					✓	3											
Other				✓		3											
												IR – Importance Rating IN – Indeterminable NA – Not Applicable					
												1 – Low Rate 0 – None 2 – Moderate					
												3 – High Rate 1 – Minor 3 – Major					



1. The instructor refers the participants to page 38 of the User's Guideline
2. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
3. The instructor explains each fillable item citing the same procedure as FORM A
4. The importance of each item should be explained to encourage acceptance and appreciation from the participants.
5. The SUM calculation is explained by example. Participants are asked to use their calculators/cell phones to do the calculation.
6. The instructor MUST impress the importance to do correct calculations and mention that in the past there were simple arithmetic errors in the calculation.
7. Participants are encouraged to recheck their work.











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SLIDE 22

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES															
<div data-bbox="121 443 945 706"> <p>SECTION E] – RAPID DAMAGE ASSESSMENT SUMMARY</p> <p>ASSESSMENT POSITION/TAG OF STRUCTURE 34</p> <table border="0"> <tr> <td>No to Minor Damage</td> <td>Regular Traffic and or Loading</td> <td>ND</td> <td>0>20</td> <td>Green</td> </tr> <tr> <td>Moderate Damage</td> <td>Reduced Traffic and or Loading</td> <td>MD</td> <td>21>40</td> <td>Yellow</td> </tr> <tr> <td>Significant/Heavy Damage</td> <td>Restricted Traffic and or Loading</td> <td>HD</td> <td>41>60</td> <td>Red</td> </tr> </table> <p>TYPE OF ASSESSMENT CONDUCTED COMBINATION FURTHER ASSESSMENT REQUIRED NO</p> <p>REMARKS/COMMENTS <small>(i.e. Road surface and above including side, under bridge deck or combination)</small> <i>FELLED UTILITY POLES HAVE BLOCKED LANES FOR TRAFFIC</i></p> <p>INSPECTION END TIME 07:15 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM</p> <p><small>Produced for the Prepare TT Project in collaboration with The Office of Disaster Preparedness and Management (ODPM) Association of Professional Engineers of Trinidad and Tobago Board of Engineering of Trinidad & Tobago Ministry of Local Government and Rural Development Ministry of National Security Ministry of Works and Transport Miyamoto International Tobago House of Assembly – Division of Infrastructure, Quarries and the Environment Trinidad & Tobago Bureau of Standards</small></p> </div> <div data-bbox="109 792 970 863">  </div>	No to Minor Damage	Regular Traffic and or Loading	ND	0>20	Green	Moderate Damage	Reduced Traffic and or Loading	MD	21>40	Yellow	Significant/Heavy Damage	Restricted Traffic and or Loading	HD	41>60	Red	<ol style="list-style-type: none"> 1. The instructor refers the participants to page 39 of the User's Guideline and explains each fillable item 2. The importance of each item should be explained to encourage acceptance and appreciation from the participants. 3. The importance of each item should be explained to encourage acceptance and appreciation from the participants. 4. Additional explanations can be given for the REMARKS/COMMENTS section by means of examples 5. AT THIS POINT THE INSTRUCTOR STOPS AND ASKS IF ANY OF THE PARTICIPANTS HAS ANY QUESTIONS OR WOULD LIKE TO REVISIT ANY OF THE PREVIOUS SLIDES.
No to Minor Damage	Regular Traffic and or Loading	ND	0>20	Green												
Moderate Damage	Reduced Traffic and or Loading	MD	21>40	Yellow												
Significant/Heavy Damage	Restricted Traffic and or Loading	HD	41>60	Red												
SLIDE 23																

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">TAGS</p> <p>GREEN TAG</p> <p>USED FOR: Entry and Occupancy</p> <div style="text-align: center;">  <p><i>Refer to page 13 of the User's Guideline</i></p> </div> <div style="text-align: center; margin-top: 10px;">  </div>	<ol style="list-style-type: none"> 1. The instructor describes the GREEN Tag and its fillable sections. 2. The use of the tag is explained. 3. Placing of the tag is described.
SLIDE 24	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">TAGS</p> <p>YELLOW TAG</p> <p>USED FOR: Entry & Occupancy with Restricted Access</p> <div style="text-align: center;">  </div> <p style="text-align: center;"><i>Refer to page 13 of the User's Guideline</i></p> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070c0; color: white; padding: 5px;">    </div>	<ol style="list-style-type: none"> 1. The instructor describes the YELLOW Tag and its fillable sections. 2. The use of the tag is explained. 3. Placing of the tag is described.
SLIDE 25	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">TAGS</p> <p>RED TAG</p> <p>USED FOR: NO Entry & NO Occupancy</p> <div style="text-align: center;">  </div> <p style="text-align: center;"><i>Refer to page 13 of the User's Guideline</i></p> <div style="display: flex; justify-content: space-around; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div>	<ol style="list-style-type: none"> 1. The instructor describes the RED Tag and its fillable sections. 2. The use of the tag is explained. 3. Placing of the tag is described.
SLIDE 26	





TAGS












Refer to page 12 of the User's Guideline











1. The instructor describes the items on the list




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">DEMONSTRATION</p> <p style="text-align: center;">USE OF THE KOBO APPLICATION</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">    </div>	<ol style="list-style-type: none"> 1. The instructor announces that the following slides show the procedure to use the Kobo application and refers to page 40 in the guidance document. 2. The instructions are similar to that of the paper based forms. 3. The instructor informs the participants that they can register on KoBo and informs them that the second session will be dedicated to the digital application use. The instructor refers them to the installation guideline within the user guide.
SLIDE 28	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">Government of the Republic of Trinidad & Tobago - "PREPARE TT PROGRAM RAPID DAMAGE ASSESSMENT FORM A - Building Structures"</p> <p>This note can be read out loud</p> <div style="text-align: center;">  </div> <div style="text-align: right; margin-right: 50px;">  </div> <div style="background-color: #0070C0; color: white; padding: 10px; display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> 1. Form A within the KOBO application will now be shown. 2. The instructor announces that the following slides show the procedure to use the KOBO application for Form A and refers to page 42 in the guidance document
SLIDE 29	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION A] - GENERAL DETAILS OF STRUCTURE</p> <p>HOMEOWNER OR BUILDING NAME <i>Enter the name of the home owner or building name here</i></p> <hr/> <p>Identification number <i>Select one form of identification for the home/ building owner and enter the details</i></p> <p> <input type="radio"/> Drivers Permit <input type="radio"/> Passport <input type="radio"/> National ID <input type="radio"/> Not Applicable </p> <p>Drivers Permit</p> <hr/> <p>Passport <i>E.g. BA23C345</i></p> <hr/> <p>National ID</p> <hr/> <p>ADDRESS <i>Number and Street Address</i> <i>Enter the address of the building being inspected</i></p> <hr/> <div style="text-align: right;">  </div> <div style="text-align: center; background-color: #0070C0; color: white; padding: 5px;">    </div>	<ol style="list-style-type: none"> 1. The instructor ensures that all participants are registered and have access to the forms. 2. The instructor outlines the various sections of the slide. 3. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 30	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>City/Town _____</p> <p>Postal Code _____</p> <p>» REGIONAL CORPORATION Select Trinidad or Tobago regions and then further select the Local Government region</p> <p>REGIONAL CORPORATION</p> <p><input type="radio"/> Trinidad Regions <input type="radio"/> Tobago Regions</p> <p>Trinidad Regions</p> <p><input type="radio"/> a. Port Of Spain City Corporation <input type="radio"/> b. San Fernando City Corporation <input type="radio"/> c. Arima Borough Corporation <input type="radio"/> d. Tunapuna/ Piarco Regional Corporation <input type="radio"/> e. Sangre Grande Regional Corporation <input type="radio"/> f. Couva/ Tabaquite/ Talparo Regional Corporation <input type="radio"/> g. Point Fortin Borough Corporation <input type="radio"/> h. Penal Debe Regional Corporation <input type="radio"/> i. Diego Martin Regional Corporation <input type="radio"/> j. Siparia Regional Corporation <input type="radio"/> k. Mayaro/ Rio Claro Regional Corporation <input type="radio"/> l. San Juan/ Laventille Regional Corporation <input type="radio"/> m. Princes Town Regional Corporation <input type="radio"/> n. Chaguanas Borough Corporation</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 31	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» REGIONAL CORPORATION <i>Select Trinidad or Tobago regions and then further select the Local Government region</i></p> <p>REGIONAL CORPORATION</p> <p><input type="radio"/> Trinidad Regions <input type="radio"/> Tobago Regions</p> <p>Trinidad Regions</p> <p><input type="radio"/> a. Port Of Spain City Corporation <input type="radio"/> b. San Fernando City Corporation <input type="radio"/> c. Arima Borough Corporation <input type="radio"/> d. Tunapuna/ Piarco Regional Corporation <input type="radio"/> e. Sangre Grande Regional Corporation <input type="radio"/> f. Couva/ Tabaquite/ Talparo Regional Corporation <input type="radio"/> g. Point Fortin Borough Corporation <input type="radio"/> h. Penal Debe Regional Corporation <input type="radio"/> i. Diego Martin Regional Corporation <input type="radio"/> j. Siparia Regional Corporation <input type="radio"/> k. Mayaro/ Rio Claro Regional Corporation <input type="radio"/> l. San Juan/ Laventille Regional Corporation <input type="radio"/> m. Princes Town Regional Corporation <input type="radio"/> n. Chaguanas Borough Corporation</p> <p>Tobago Regions</p> <p><input type="radio"/> a. Bagatelle/Bacolet <input type="radio"/> b. Belle Garden/Giamorgan <input type="radio"/> c. Bethel/New Grange <input type="radio"/> d. Bethesda/Les Coteaux <input type="radio"/> e. Bon Accord/Crown Point <input type="radio"/> f. Buccoo/Mt. Pleasant <input type="radio"/> g. Darrel Spring/Whim <input type="radio"/> h. Lambeau/ Lowlands <input type="radio"/> i. Mason Hall/Moriah <input type="radio"/> j. Mt. St. George/Goodwood <input type="radio"/> k. Parlatuvier/L'Anse Fourmi/Speside <input type="radio"/> l. Plymouth/Black Rock <input type="radio"/> m. Roxborough/Argyle <input type="radio"/> n. Scarborough/Mt. Grace <input type="radio"/> o. Signal Hill/Patience Hill</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 32	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>GPS Touch the GPS location button to automatically enter the GPS location. The data can be entered manually if required.</p> <hr/> <p>latitude (x,y °)</p> <hr/> <p>longitude (x,y °)</p> <hr/> <p>altitude (m)</p> <hr/> <p>accuracy (m)</p> <hr/>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 33	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION B] – ASSESSMENT OF PARTICULARS</p> <p>Structure Collapse <i>Is the structure collapsed? Select Yes or No</i></p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>INSPECTION DATE <i>Enter the date of the inspection</i></p> <p>_____ yyyy-mm-dd</p> <p>INSPECTION START TIME <i>Enter the time the inspection has started</i></p> <p>_____ hh:mm</p> <p>AM/PM <i>Select AM or PM</i></p> <p><input type="radio"/> AM <input type="radio"/> PM</p> <p>DISASTER TYPE <i>Select the relevant disaster type. If it is not listed select "Other" and enter the details.</i></p> <p><input type="radio"/> Tropical Cyclone <input type="radio"/> Earthquake <input type="radio"/> Flood <input type="radio"/> Landslide <input type="radio"/> Tsunami <input type="radio"/> Other</p> <p>DETAILS (If Other)</p> <p>_____</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 34	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION C] – STRUCTURAL DETAILS</p> <p>Building Footprint <i>Type in the approximate dimensions of the structure concerned</i> <i>FT</i></p> <p><i>E.g. 50</i> _____</p> <p>X <i>FT</i></p> <p><i>30</i> _____</p> <p>SUPERSTRUCTURE – NUMBER OF STORIES <i>Enter the number of stories above ground. E.g. if the building has a ground floor and one floor above, enter 2</i> _____</p> <p><i>2</i> _____</p> <p>SUBSTRUCTURE – NUMBER OF STORIES <i>Enter the number of stories below ground. E.g. if the building has basement parking for one level then enter 1. If there is none enter 0.</i> _____</p> <p><i>0</i> _____</p> <p>BUILDING USAGE <i>Select the building usage type. If it is not listed select "Other" and enter the details</i></p> <p> <input type="radio"/> Residential [Single Use] <input type="radio"/> Residential [Multi-Use] <input type="radio"/> Commercial <input type="radio"/> School <input type="radio"/> Critical Facility <input type="radio"/> Industrial <input type="radio"/> Office <input type="radio"/> Other </p> <p>Other _____</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 35	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» TPOLOGY <i>Select the building typology for the building under inspection. If the building is a mixed typology select them and input the approximate percentage of each.</i></p> <p>for mixed typologies choose more than one and approximate percentage</p> <p> <input type="checkbox"/> Indeterminable <input type="checkbox"/> Non Engineered <input checked="" type="checkbox"/> Wood light frame/panel <input checked="" type="checkbox"/> Unreinforced/unconfined masonry <input type="checkbox"/> Confined masonry <input type="checkbox"/> Reinforced concrete (masonry infilled walls) <input type="checkbox"/> Reinforced concrete moment resisting frame <input type="checkbox"/> Reinforced concrete shear wall <input type="checkbox"/> Structural Steel moment resisting frame <input type="checkbox"/> Structural Steel braced frame <input type="checkbox"/> Structural Steel frame (masonry infilled walls) <input type="checkbox"/> Other Typology </p> <p>Other Typology _____</p> <div style="text-align: right; margin-top: 20px;">  </div> <div style="margin-top: 10px;">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 36	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES																								
<p>The slide content is as follows:</p> <table border="1"> <thead> <tr> <th>Typology</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Indeterminable</td> <td></td> </tr> <tr> <td>Non Engineered</td> <td></td> </tr> <tr> <td>Wood light frame/panel</td> <td>75</td> </tr> <tr> <td>Unreinforced/unconfined masonry</td> <td>25</td> </tr> <tr> <td>Confined masonry</td> <td></td> </tr> <tr> <td>Reinforced concrete moment resisting frame</td> <td></td> </tr> <tr> <td>Reinforced concrete shear wall</td> <td></td> </tr> <tr> <td>Structural Steel frame (masonry infilled walls)</td> <td></td> </tr> <tr> <td>Other Typology</td> <td></td> </tr> <tr> <td>Structural Steel moment resisting frame</td> <td></td> </tr> <tr> <td>Structural Steel braced frame</td> <td></td> </tr> </tbody> </table> <p>Logos: USAID (FROM THE AMERICAN PEOPLE), dpm, miyamoto.</p>	Typology	Percentage (%)	Indeterminable		Non Engineered		Wood light frame/panel	75	Unreinforced/unconfined masonry	25	Confined masonry		Reinforced concrete moment resisting frame		Reinforced concrete shear wall		Structural Steel frame (masonry infilled walls)		Other Typology		Structural Steel moment resisting frame		Structural Steel braced frame		<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
Typology	Percentage (%)																								
Indeterminable																									
Non Engineered																									
Wood light frame/panel	75																								
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Reinforced concrete shear wall																									
Structural Steel frame (masonry infilled walls)																									
Other Typology																									
Structural Steel moment resisting frame																									
Structural Steel braced frame																									
SLIDE 37																									





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION D] – VISUAL OBSERVATION OF DAMAGES</p> <p>» Reminders</p> <p>Damages must be viewed at the local site and their potential impact on the neighboring members.</p> <hr/> <p>Indeterminate (IN) – This means that the extent of damage is unable to be determined at the time of inspection and should be checked off with a note indicating that that particular element may need further review.</p> <hr/> <p>Not Applicable (NA)- This means that the particular structural or non-structural element does not apply to the particular structure.</p> <hr/> <p>The RDA inspector must look at all damages and conclude whether damages are structural or non-structural. Damages are graded from 0 to 3.</p> <hr/> <p>0 = no damage, 1 = minor damage, 2 = moderate damage, 3 = major damage</p> <hr/> <div style="text-align: right;">  </div> <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">   miyamoto. </div>	<ol style="list-style-type: none"> 1. The instructor describes the items on the list
SLIDE 38	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>1 – Structural Damages: Inspect each structural element listed and assign a damage rating (from 0 to 3). These will be multiplied automatically by the importance rating.</p> <hr/> <p>2 – Non-structural Damages: Inspect each structural element listed and assign a damage rating (from 0 to 3).</p> <hr/> <p>3 – External site damages that pose a danger to the immediate structure Inspect each structural element listed and assign a damage rating (from 0 to 3). These will be multiplied automatically by the importance rating.</p> <hr/> <p>E.g. an external column with a damage rating of 3 is multiplied by an IR of 3 to give a total of 9, which is now the new assigned grade for the external column.</p> <hr/> <p>Remember to verify the final grade of the structural element being reviewed by entering the number calculated in the blank field provided.</p> <hr/> <div style="text-align: right; margin-right: 20px;">  </div> <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">   miyamoto. </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 39	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» STRUCTURAL DAMAGES Details Fill in the visual observation of damages and enter the respective damage ratings based on your observations for all relevant structural elements.</p> <p>» » External walls</p> <p>External walls</p> <p> <input type="radio"/> 0 X <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/>  <div data-bbox="109 852 970 925">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 40	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » External columns</p> <p>External columns</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 X <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>External columns</p> <p style="text-align: center;">6</p> <div style="text-align: right; margin-right: 20px;">  </div> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 41	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » External beams</p> <p>External beams</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 X <input type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>External beams</p> <p>0</p> <hr/>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 42	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Foundations</p> <p>Foundations</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2</p> <p><input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 3</p> <hr/> <p>Parapet</p> <hr/>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 43	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» NON-STRUCTURAL DAMAGES (Details) <i>Select the relevant non-structural damage ratings where applicable. If there is none select IN/NA (Indeterminate/ Not applicable)</i></p> <p>Cladding/glazing</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Ceiling</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Electrical</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>HVAC</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Plumbing</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Waste water</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 44	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» EXTERNAL SITE DAMAGES Details Select the relevant external site damage ratings where applicable. If there is none select IN/NA (Indeterminate/ Not applicable)</p> <p>» Utility poles</p> <p>Utility poles</p> <p> <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 1</p> <hr/> <p>SUM: 2</p> <hr/> <p>SUM: 3</p> <hr/> <p>Utility poles</p> <p>1</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 45	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Trees</p> <p>Trees</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2</p> <p><input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>SUM: 0</p> <hr/> <p>SUM: 1</p> <hr/> <p>SUM: 2</p> <hr/> <p>SUM: 3</p> <hr/> <p>Trees</p> <hr/> <div style="text-align: right;"></div> <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>USAID</p> <p><small>FROM THE AMERICAN PEOPLE</small></p> </div>  <div style="text-align: center;"> <p>miyamoto.</p> </div> </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 46	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Landslips</p> <p>Landslips</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2</p> <p><input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Landslips</p> <hr/> <div style="text-align: right;"></div> <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>USAID</p> <p><small>FROM THE AMERICAN PEOPLE</small></p> </div>  <div style="text-align: center;"> <p>miyamoto.</p> </div> </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 47	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Adjacent structure</p> <p>Adjacent structure</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0 _____</p> <p>SUM: 3 _____</p> <p>SUM: 6 _____</p> <p>SUM: 9 _____</p> <p>Adjacent structure</p> <p>_____</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 48	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Other Enter other relevant external site damage where applicable. If there is none select IN/NA (Indeterminate/ Not applicable)</p> <p>Other</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 X <input type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Other</p> <p>0</p> <hr/> <div style="text-align: right;"></div> <div style="text-align: center; background-color: #0070C0; color: white; padding: 5px;">  USAID <small>FROM THE AMERICAN PEOPLE</small>   </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 49	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>Total [Assessment Value (ND/MD/HD)] Re enter the total assessment value calculated</p> <p><u>52</u></p> <p>PICTURE/VIDEO/AUDIO ATTACHED Select to attach pictures, video and audio. You may take photos directly from the camera or from saved files.</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>» If Yes</p> <p>» » .</p> <p>Take Picture</p> <p>Click here to upload file. (< 10MB)</p> <p>Attached Video</p> <p>Click here to upload file. (< 10MB)</p> <p>Take Picture</p> <p>Click here to upload file. (< 10MB)</p> <p>Attached Video</p> <p>Click here to upload file. (< 10MB)</p>    	<ol style="list-style-type: none">1. The instructor outlines the various sections of the slide.2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 50	






POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION E] – RAPID DAMAGE ASSESSMENT SUMMARY</p> <p>Tag of Structure <i>The tag of the structure will be automatically selected based on the total assessment value confirmed.</i></p> <p><input checked="" type="radio"/> Green <input type="radio"/> Yellow <input type="radio"/> Red</p> <p>Tag of Structure</p> <p><input type="radio"/> Green <input checked="" type="radio"/> Yellow <input type="radio"/> Red</p> <p>Tag of Structure</p> <p><input type="radio"/> Green <input type="radio"/> Yellow <input checked="" type="radio"/> Red</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 51	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>ASSESSMENT POSITION <i>Select the appropriate assessment position based on the tag of the structure.</i></p> <p> <input type="radio"/> No to Moderate Damage- Can Be Occupied <input checked="" type="radio"/> Moderate Damage- Can Be Occupied with Restrictions <input type="radio"/> Significant/Heavy Damage- Entry Prohibited/Do Not Occupy </p> <p>TYPE OF ASSESSMENT CONDUCTED <i>Select whether the structure was assessed internally or externally only or both.</i></p> <p> <input type="radio"/> Internal <input type="radio"/> External <input checked="" type="radio"/> Combination </p> <p>FURTHER ASSESSMENT REQUIRED <i>Is a further assessment required? Select yes or no and enter the relevant comments below.</i></p> <p> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>INSPECTION END TIME <i>Enter the time the inspection ended</i></p> <p>hh:mm _____</p> <p>REMARKS/COMMENTS <i>Enter any remarks that are relevant to the structure.</i></p> <p>_____</p> <p>This note can be read out loud </p> <div data-bbox="113 797 968 867" style="background-color: #0072bc; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 52	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO RAPID DAMAGE ASSESSMENT FORM (RDA) FORM B – Bridges</p> <p style="text-align: center;">This note can be read out loud</p> <div style="text-align: center;">  </div> <div style="text-align: right; margin-top: 20px;">  </div> <div style="background-color: #0070C0; color: white; padding: 10px; display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; align-items: center;">  <p>USAID <small>FROM THE AMERICAN PEOPLE</small></p> </div> <div style="display: flex; align-items: center;">  </div> <div style="font-size: 24px; font-weight: bold;">miyamoto.</div> </div>	<ol style="list-style-type: none"> 1. Form B within the KOBO application will now be shown. 2. The instructor announces that the following slides show the procedure to use the KOBO application for Form B and refers to page 57 in the guidance document
SLIDE 53	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION B] - STRUCTURE LOCATION</p> <p>Bridge Name <small>Enter the name of the bridge structure here</small></p> <hr/> <p>ID <small>Enter the bridge structure ID number here</small></p> <hr/> <p>» Location <small>Enter the bridge structure address</small></p> <p>Road/Street Address</p> <hr/> <p>City/Town</p> <hr/> <p>Postal Code</p> <hr/> <p>REGIONAL CORPORATION <small>Select Trinidad or Tobago regions and then further select the Local Government region</small></p> <p><input type="radio"/> Trinidad Regions <input type="radio"/> Tobago Regions</p> <div style="text-align: right;">  </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;">    </div>	<ol style="list-style-type: none"> The instructor describes the items on the list
SLIDE 54	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>Trinidad Regions</p> <p><input type="radio"/> a. Port Of Spain City Corporation <input type="radio"/> b. San Fernando City Corporation</p> <p><input type="radio"/> c. Arima Borough Corporation <input type="radio"/> d. Tunapuna/ Piarco Regional Corporation</p> <p><input type="radio"/> e. Sangre Grande Regional Corporation <input type="radio"/> f. Couva/ Tabaquite/ Talparo Regional Corporation</p> <p><input type="radio"/> g. Point Fortin Borough Corporation <input type="radio"/> h. Penal Debe Regional Corporation</p> <p><input type="radio"/> i. Diego Martin Regional Corporation <input type="radio"/> j. Siparia Regional Corporation</p> <p><input type="radio"/> k. Mayaro/ Rio Claro Regional Corporation <input type="radio"/> l. San Juan/ Laventille Regional Corporation</p> <p><input type="radio"/> m. Princes Town Regional Corporation <input type="radio"/> n. Chaguanas Borough Corporation</p> <p>Tobago Regions</p> <p><input type="radio"/> a. Bagatelle/Bacolet <input type="radio"/> b. Belle Garden/Glamorgan <input type="radio"/> c. Bethel/New Grange</p> <p><input type="radio"/> d. Bethesda/Les Coteaux <input type="radio"/> e. Bon Accord/Crown Point <input type="radio"/> f. Buccoo/Mt. Pleasant</p> <p><input type="radio"/> g. Darrel Spring/Whim <input type="radio"/> h. Lambeau/ Lowlands <input type="radio"/> i. Mason Hall/Moriah</p> <p><input type="radio"/> j. Mt. St. George/Goodwood <input type="radio"/> k. Parlatuvier/L'Anse Fourmi/Speyside</p> <p><input type="radio"/> l. Plymouth/Black Rock <input type="radio"/> m. Roxborough/Argyle <input type="radio"/> n. Scarborough/Mt. Grace</p> <p><input type="radio"/> o. Signal Hill/Patience Hill</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 55	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>GPS Touch the GPS location button to automatically enter the GPS location. The data can be entered manually if required.</p> <hr/> <p>latitude (x,y °)</p> <hr/> <p>longitude (x,y °)</p> <hr/> <p>altitude (m)</p> <hr/> <p>accuracy (m)</p> <hr/>     	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 56	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION C] – STRUCTURAL DETAILS <i>Type in the approximate dimensions and other details of the bridge structure concerned</i></p> <p>Footprint <i>FT</i></p> <p><i>E.g. 50</i></p> <hr/> <p>X <i>FT</i></p> <p><i>30</i></p> <hr/> <p>Number of Vehicles Lanes</p> <p><i>2</i></p> <hr/> <p>Pedestrian</p> <p><i>1</i></p> <hr/> <div style="text-align: right;"></div> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 57	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» TYPOLGY Select the typology for the bridge under inspection. If the bridge is a mixed typology structure select them and input the approximate percentage of each. for mixed typologies choose more than one and approximate percentage</p> <p> <input type="checkbox"/> Prestressed Concrete Girder <input type="checkbox"/> Structural Steel Girder <input type="checkbox"/> Timber Girder <input checked="" type="checkbox"/> Structural Steel Truss <input type="checkbox"/> Suspension <input type="checkbox"/> Other </p> <p>Other _____</p> <p>Prestressed Concrete Girder Percentage (%) _____</p> <p>Structural Steel Girder Percentage (%) _____</p> <p>100</p> <p>Timber Girder Percentage (%) _____</p> <p>Structural Steel Truss Other Percentage (%) Percentage (%) _____ _____</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 58	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION D] – VISUAL OBSERVATION OF DAMAGES</p> <p>» Reminders</p> <p>Damages must be viewed at the local site and their potential impact on the neighboring members.</p> <hr/> <p>Indeterminate (IN) – This means that the extent of damage is unable to be determined at the time of inspection and should be checked off with a note indicating that that particular element may need further review.</p> <hr/> <p>Not Applicable (NA)- This means that the particular structural or non-structural element does not apply to the particular structure.</p> <hr/> <div style="text-align: right; margin-top: 20px;">  </div> <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 59	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>The RDA inspector must look at all damages and conclude whether damages are structural or non-structural. Damages are graded from 0 to 3.</p> <hr/> <p>0 = no damage, 1 = minor damage, 2 = moderate damage, 3 = major damage</p> <hr/> <p>1 – Structural Damages: Inspect each structural element listed and assign a damage rating (from 0 to 3). These will be multiplied automatically by the importance rating.</p> <hr/> <p>2 – Non-structural Damages: Inspect each structural element listed and assign a damage rating (from 0 to 3).</p> <hr/> <p>3 – External site damages that pose a danger to the immediate structure Inspect each structural element listed and assign a damage rating (from 0 to 3). These will be multiplied automatically by the importance rating.</p> <hr/> <div style="text-align: right; margin-top: 20px;">  </div> <div style="text-align: center; margin-top: 20px;">    </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 60	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>E.g. an external column with a damage rating of 3 is multiplied by an IR of 3 to give a total of 9, which is now the new assigned grade for the external column.</p> <hr/> <p>Remember to verify the final grade of the structural element being reviewed by entering the number calculated in the blank field provided.</p> <hr/> <div style="text-align: right; margin-top: 20px;">  </div> <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">   miyamoto. </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 61	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» STRUCTURAL DAMAGES Details Fill in the visual observation of damages and enter the respective damage ratings based on your observations for all relevant structural elements.</p> <p>» » Girders</p> <p>Girders</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0 _____</p> <p>SUM: 3 _____</p> <p>SUM: 6 _____</p> <p>SUM: 9 _____</p> <p>Girders</p> <p>_____ 9</p>  <div style="background-color: #0070C0; color: white; padding: 5px; display: flex; align-items: center;">  <div style="margin-right: 20px;"> <p>USAID <small>FROM THE AMERICAN PEOPLE</small></p> </div>  <p>miyamoto.</p> </div>	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 62	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Piers</p> <p>Piers</p> <p><input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2</p> <p><input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Piers</p> <p><input checked="" type="radio"/> 3</p> <hr/>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 63	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Abutments</p> <p>Abutments</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Abutments</p> <p>6</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 64	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Wingwall</p> <p>Wingwall</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> IN/NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Wingwall</p> <p>0</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 65	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Truss</p> <p>Truss</p> <p> <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 X <input type="radio"/> IN/ NA </p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Truss</p> <p>0</p>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 66	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» » Deck</p> <p>Deck</p> <p><input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2</p> <p><input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Deck</p> <p>3</p>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 67	





POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» NON-STRUCTURAL DAMAGES (Details) <i>Select the relevant non-structural damage ratings where applicable. If there is none relevant or you are unable to determine the damages select IN/NA (Indeterminate/ Not applicable)</i></p> <p>Railing</p> <p>X <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Lighting</p> <p>X <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Electrical</p> <p>X <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Utilities</p> <p>X <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>Drainage</p> <p>X <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA</p>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 68	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>» EXTERNAL SITE DAMAGES Details Select the relevant external site damage ratings where applicable. If there is none applicable select IN/NA (Indeterminate/ Not applicable)</p> <p>» » Utility poles</p> <p>Utility poles</p> <p> <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> IN/NA </p> <p>SUM: 0 _____</p> <p>SUM: 1 _____</p> <p>SUM: 2 _____</p> <p>SUM: 3 _____</p> <p>Utility poles</p> <p>_____ 1</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 69	




POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>Other</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <i>select IN/NA (Indeterminate/ Not applicable)</i></p> <p><input type="radio"/> 3 <input type="radio"/> IN/NA</p> <p>SUM: 0</p> <hr/> <p>SUM: 3</p> <hr/> <p>SUM: 6</p> <hr/> <p>SUM: 9</p> <hr/> <p>Other</p> <p>0</p> <hr/>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE70	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>Total [Assessment Value (ND/MD/HD)] <i>Re enter the total assessment value calculated</i></p> <p><i>E.g. 18</i></p> <p>PICTURE/VIDEO/AUDIO ATTACHED <i>Select to attach pictures, video and audio. You may take photos directly from the camera or from saved files.</i></p> <p>X <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>» If Yes</p> <p>» » .</p> <p>Take Picture Attached Video Attached Audio</p> <p>Click here to upload file. (< 10MB) Click here to upload file. (< 10MB) Click here to upload file. (< 10MB)</p> <p>Take Picture Attached Video Attached Audio</p> <p>Click here to upload file. (< 10MB) Click here to upload file. (< 10MB) Click here to upload file. (< 10MB)</p>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 71	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>[SECTION E] – RAPID DAMAGE ASSESSMENT SUMMARY</p> <p>Tag of Structure The tag of the structure will be automatically selected based on the total assessment value confirmed.</p> <p><input checked="" type="radio"/> Green <input type="radio"/> Yellow <input type="radio"/> Red</p> <p>Tag of Structure</p> <p><input type="radio"/> Green <input checked="" type="radio"/> Yellow <input type="radio"/> Red</p> <p>Tag of Structure</p> <p><input type="radio"/> Green <input type="radio"/> Yellow <input checked="" type="radio"/> Red</p>    	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 72	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>ASSESSMENT POSITION Select the appropriate assessment position based on the tag of the structure.</p> <p>X <input type="radio"/> Regular Traffic and or Loading <input type="radio"/> Reduced Traffic and or Loading <input type="radio"/> Restricted Traffic and or Loading</p> <p>TYPE OF ASSESSMENT CONDUCTED Select how the structure was assessed</p> <p><input type="radio"/> Road Surface and Above including sides <input type="radio"/> Under Bridge Deck X <input type="radio"/> Combination</p> <p>FURTHER ASSESSMENT REQUIRED Is a further assessment required? Select yes or no and enter the relevant comments below.</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>INSPECTION END TIME Enter the time the inspection ended</p> <p>hh:mm _____</p> <p>REMARKS/COMMENTS Enter any remarks that are relevant to the structure.</p> <p>_____</p> <p>This note can be read out loud </p>   	<ol style="list-style-type: none"> 1. The instructor outlines the various sections of the slide. 2. The instructions for use are in RED. The instructor explains these instructions.
SLIDE 73	

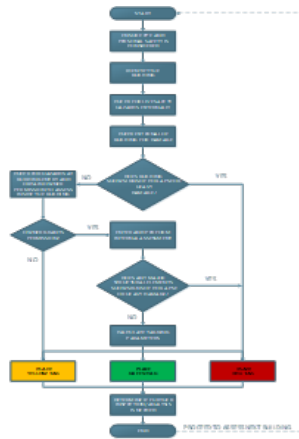
POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">WHAT YOU NEED</p> <p>Safety Equipment:</p> <ul style="list-style-type: none"> i. Safety helmets (ANSI Z89.1 or similar) ii. Safety glasses (ANSI Z87/Z87+ or similar) iii. Steel-toe safety boots (ANSI Z41 or similar) iv. Protective coverall v. Dust/Gas mask (depending on the site to be visited) vi. Safety gloves (depending on the site to be visited) <p style="text-align: center;"><i>Refer to page 7 of the User's Guideline</i></p> <div style="display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> 1. The instructor describes the items on the list 2. The instructor asks the participants if they think that any other materials would be needed. The instructor would have to be able to assess if additional materials stated by the participants would be appropriate or can be hazardous.
SLIDE 74	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">WHAT YOU NEED</p> <p>Some additional items that might be of interest to the inspector to have for a day of inspections are:</p> <ul style="list-style-type: none"> i. Clipboard for RDA forms ii. Extra pens iii. Torchlight iv. 100 ft. measuring tape v. 30 ft. measuring tape vi. Laser pointer vii. Camera viii. GPS device/ mobile phone ix. Bottle water (for drinking) x. Hand sanitizer xi. Lunch/snacks xii. Backpack to carry items. <p style="text-align: center;"><i>Refer to page 7 of the User's Guideline</i></p> <div style="display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> 1. The instructor describes the items on the list 2. The instructor asks the participants if they think that any other materials would be needed. The instructor would have to be able to assess if additional materials stated by the participants would be appropriate or can be hazardous.
SLIDE 75	

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

INSPECTION PROCEDURE FOR BUILDINGS








Refer to page 9 of the User's Guideline











1. Instructor to outline and briefly explain each step giving scenarios where applicable.




SLIDE 76

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p>INSPECTION PROCEDURE FOR BUILDINGS</p> <p>10 Step Procedure for RDA Inspections</p> <p>STEP 1: Ensure PPE and personal safety is considered</p> <p>STEP 2: Identify the Building</p> <p>STEP 3: Check for live safety hazards externally</p> <p>STEP 4: Check external for Building Damage</p> <p><i>Refer to page 9 of the User's Guideline</i></p> 	<ol style="list-style-type: none"> 1. Instructor to outline and briefly explain each step giving scenarios where applicable.
SLIDE 77	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 386 961 1019" style="border: 1px solid black; padding: 10px;"> <h2 style="text-align: center; color: #0070C0;">INSPECTION PROCEDURE</h2> <h3 style="color: #0070C0;">USING FORM A</h3> <p>STEP 6: Does the building show signs of collapse or heavy damage?</p> <p>YES → Place RED tag </p> <p>NO → Check for hazards at building entry and obtain owner permission to assess inside the building</p> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div> </div>	<ol style="list-style-type: none"> The instructor briefly explains the process of selecting YES or NO
SLIDE 78	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 386 961 1019" style="border: 1px solid black; padding: 10px;"> <h2 style="text-align: center; color: #0070C0;">INSPECTION PROCEDURE</h2> <h3 style="color: #0070C0;">USING FORM A</h3> <p>Does the owner grant permission?</p> <p>NO → Place YELLOW tag</p>  <p>YES → Step 7</p> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div> </div>	<p>The instructor briefly explains the process of selecting YES or NO</p>
SLIDE 79	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 386 961 1019" style="border: 1px solid black; padding: 10px;"> <h2 style="text-align: center; color: #0070C0;">INSPECTION PROCEDURE</h2> <h3 style="color: #0070C0;">USING FORM A</h3> <p>Step 7: Enter and perform assessment</p> <p>Does any Major Structural Elements Show Signs of Collapse or Heavy Damage?</p> <p>YES → Place RED tag </p> <p>NO → Calculate Tagging Parameters</p> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">    </div> </div>	<ol style="list-style-type: none"> The instructor briefly explains the process of selecting YES or NO
SLIDE 80	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 386 961 1019" style="border: 1px solid black; padding: 20px;"> <h2 style="text-align: center; color: #0070C0;">INSPECTION PROCEDURE</h2> <h3 style="color: #0070C0;">USING FORM A</h3> <p>Step 8: Place appropriate Tag in a safe visible location</p> <p>Step 9: Determine if further inspection is needed</p> <p>Step 10: Exit site and move to next inspection.</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;">    </div> </div>	<p style="text-align: center;">Instructor to outline and briefly explain each step.</p>
SLIDE 81	

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

INSPECTION PROCEDURE FOR BRIDGES




Refer to page 11 of the User's Guideline











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1. The instructor briefly explains either:
 - a. Each item individually OR
 - b. All items collectively




SLIDE 82

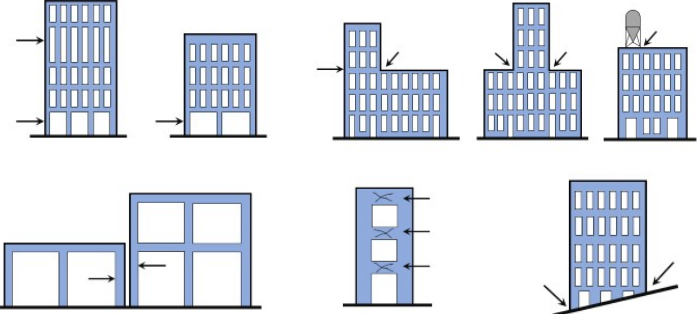



POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">INSPECTION PROCEDURE FOR BRIDGES</p> <p style="text-align: center;">9 Step Procedure for RDA Inspections</p> <p>STEP 1: Ensure PPE and personal safety is considered</p> <p>STEP 2: Identify the Bridge</p> <p>STEP 3: Check for live safety hazards externally</p> <p style="text-align: center;"><i>Refer to page 11 of the User's Guideline</i></p> <div style="text-align: center;">  </div>	<ol style="list-style-type: none"> 1. Instructor to outline and briefly explain each step.
SLIDE 83	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">INSPECTION PROCEDURE USING FORM B</p> <p>STEP 4 : Does the bridge show signs of collapse or heavy damage?</p> <p>YES → Place RED tag </p> <p>NO → Check for hazards at bridge entry</p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">    </div>	<ol style="list-style-type: none"> The instructor briefly explains the process of selecting YES or NO
SLIDE 84	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">INSPECTION PROCEDURE</p> <p>USING FORM B</p> <p>STEP 5 Is it safe to enter?</p> <p>NO → Place YELLOW tag</p> <p>YES → Step 6</p>  <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">    </div>	<ol style="list-style-type: none"> The instructor briefly explains the process of selecting YES or NO
SLIDE 85	

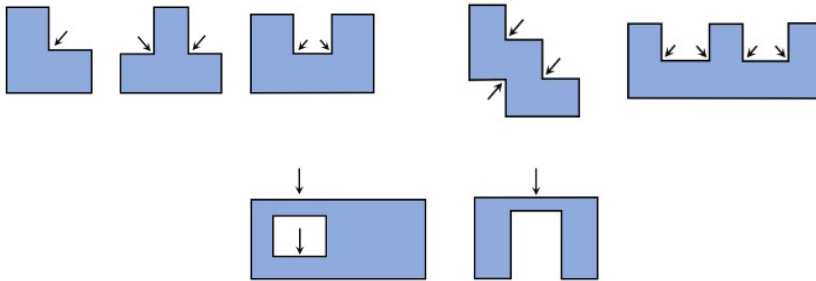
POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">INSPECTION PROCEDURE</p> <p>USING FORM B</p> <p>Step 6: Enter and perform assessment</p> <p>Does any Major Structural Elements Show Signs of Collapse or Heavy Damage?</p> <p>YES → Place RED tag </p> <p>NO → Calculate Tagging Parameters</p> <div style="display: flex; justify-content: space-between; align-items: center; background-color: #0070C0; color: white; padding: 5px;">  <div style="text-align: center;">  </div>  </div>	<ol style="list-style-type: none"> The instructor briefly explains the process of selecting YES or NO
SLIDE 86	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p data-bbox="128 337 819 446">INSPECTION PROCEDURE USING FORM B</p> <p data-bbox="128 521 850 557">Step 7: Place appropriate Tag in a safe visible location</p> <p data-bbox="128 597 787 633">Step 8: Determine if further inspection is needed</p> <p data-bbox="128 673 730 709">Step 9: Exit site and move to next inspection.</p> <div data-bbox="113 847 966 922"></div>	<p data-bbox="1052 367 1522 493">2. The instructor briefly explains either:</p> <ul data-bbox="1194 415 1522 493" style="list-style-type: none"><li data-bbox="1194 415 1522 443">c. Each item individually OR<li data-bbox="1194 464 1522 493">d. All items collectively
SLIDE 87	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">CRITICAL INSPECTION POINTS</p> <p>VERTICAL SECTIONS</p>  <p style="text-align: center;"><i>Refer to page 17 of the User's Guideline</i></p> <div style="display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> The instructor briefly explains the critical location for inspecting on each diagram.
SLIDE 88	

CRITICAL INSPECTION POINTS

HORIZONTAL SECTIONS



Refer to page 17 of the User's Guideline

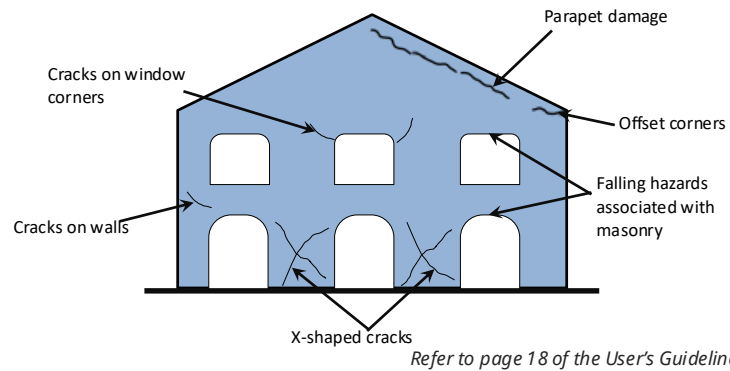


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1. The instructor briefly explains the critical location for inspecting on each diagram.

CRITICAL INSPECTION POINTS

unreinforced masonry bearing-wall structures

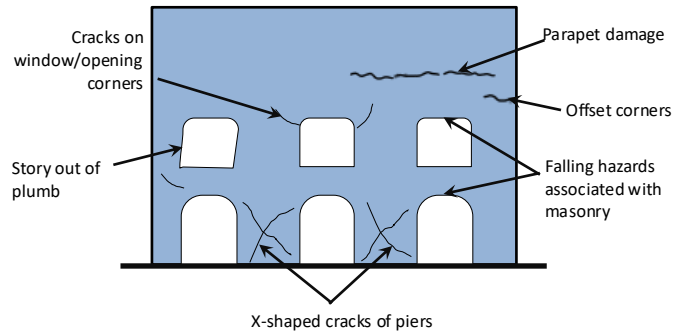


miyamoto.

1. The instructor briefly explains the critical points for inspection

CRITICAL INSPECTION POINTS

reinforced concrete shear wall structures



Refer to page 18 of the User's Guideline

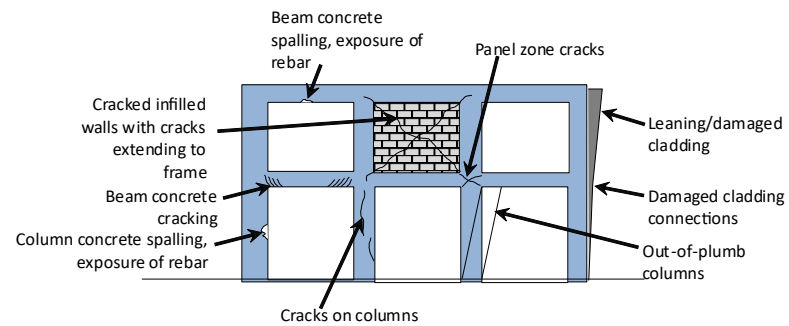


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1. The instructor briefly explains the critical points for inspection

CRITICAL INSPECTION POINTS

reinforced concrete moment-framed structures

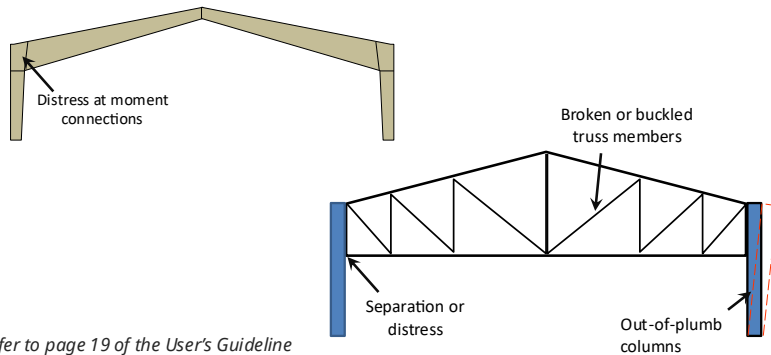


miyamoto.

1. The instructor briefly explains the critical points for inspection

CRITICAL INSPECTION POINTS

light-braced steel framed structures



Refer to page 19 of the User's Guideline







USAID
FROM THE AMERICAN PEOPLE



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1. The instructor briefly explains the critical points for inspection

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<p style="text-align: center;">INSPECTION SAFETY</p>  <ol style="list-style-type: none"> 1. NEVER put yourself at risk 2. ALWAYS be aware of your surroundings 3. Vet all external damages before entering a structure 4. Investigate general safety 5. NEVER climb any part of the structure to inspect. <p style="text-align: center;">Bridge in Tunapuna, Trinidad (Photograph Credit Dr N. Ramroop)</p> <div style="display: flex; justify-content: space-between; align-items: center;">    </div>	<ol style="list-style-type: none"> 1. The instructor impresses the importance of SAFETY when conducting inspections. 2. A building should not be inspected if the inspector feels unsafe due to: <ol style="list-style-type: none"> a. Severe damage b. Hostile occupants c. Infestation of insects and/or vermin d. The smell of gas (this should be reported immediately to the fire service). e. If the inspector feels unwell.
SLIDE 94	

POWERPOINT SLIDE

INSTRUCTOR'S GUIDANCE NOTES

Recognition & Credits

1. ODPM
2. USAID
3. MIYAMOTO INTERNATIONAL
4. MOWT
5. APETT
6. BOETT
7. TTBS
8. MRDLG









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The instructor closes the session and recognises the following entities. The entire name for each stakeholder should be spoken.

1. ODPM - Office of Disaster Preparedness and Management
2. USAID BHA - United States Agency for International Development Bureau for Humanitarian Assistance
3. Miyamoto International In PREPARE TT implementing agency
4. MOWT – Ministry of Works and Transport
5. APETT – Association of Professional Engineers of Trinidad and Tobago
6. BOETT – Board Of Engineering of Trinidad and Tobago
7. TTBS – Trinidad and Tobago Bureau of Standards
8. MRDLG – Ministry of Rural Development and Local Government

SLIDE 95

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 380 961 938" style="border: 1px solid black; padding: 20px; text-align: center;"> <p>This presentation is made possible by the support of the American People through the United States Agency for International Development (USAID). The contents of this presentation are the sole responsibility of the Office of Disaster Preparedness and Management and Miyamoto International and do not necessarily reflect the views of USAID or the United States Government.</p> </div> <div data-bbox="121 938 961 1011" style="background-color: #0070C0; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">    </div>	<p>The instructor specially thanks USAID BHA for their funding as well as the ODPM and Miyamoto International for their work in developing the RDA.</p>
SLIDE 96	

POWERPOINT SLIDE	INSTRUCTOR'S GUIDANCE NOTES
<div data-bbox="121 380 961 1013" style="border: 1px solid black; padding: 20px;"> <h2 style="text-align: center; color: #0070C0;">CONTACT</h2> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>United States Agency for International Development https://www.usaid.gov</p> <p>Miyamoto International Inc. https://miyamotointernational.com</p> </div> <div style="width: 45%;"> <p>Office Of Disaster Preparedness and Management Ministry of National Security</p> <p>4A Orange Grove Road, Trincity, Tacarigua, Republic of Trinidad and Tobago</p> <p>Tel: (868) 640-1285 Call Center: 511 https://www.odpm.gov.tt</p> <p>Email: publicinfo.odpm@gmail.com</p> </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;">    </div> </div>	<p style="text-align: center;">The instructor now proceeds to administer the assessment</p>
SLIDE 97	

RDA ASSESSMENT

The assessment component is given to allow participants to gauge whether or not they have understood the material.

1. It is administered with a time limit of 15 minutes.
2. They are allowed to use the course notes.
3. Upon completion, it is important to go through the answers with them.

This assessment is to ensure that you have understood the material presented.

Instructions:

Circle the letter of your answer from the choices given.

Time: 15 mins

1. Which of the following best aligns with the purpose of the RDA assessment?
 - a. To assess any structure in record time.
 - b. To compile a detailed assessment of all structure damages after a natural disaster.
 - c. To minimize misunderstandings of varied assessments after a natural disaster
 - d. None of the above.
2. In section C of form A, how is the Typology assessed?
 - a. Review the structure and tick the appropriate box and estimate the associated percentage.
 - b. Review the structure and tick the only dominant typology throughout the structure.
 - c. Review the structure and record at least two typologies.
 - d. None of the above.
3. In section D of form A, what is the formula for calculating the sum?
 - a. Rating + IR = Sum
 - b. Rating x IR = Sum
 - c. Rating x 3(IR) = Sum
 - d. Rating x 2(IR) = Sum
4. In section E of form A, what would Moderate Damage mean for the structure's occupancy?
 - a. Can be occupied.
 - b. Can be occupied without restrictions.
 - c. Can be occupied with restrictions.
 - d. Cannot be occupied, and entry is prohibited.
5. In section D of form B, if a utility pole falls and damages the bridge's abutment, what would the sum be?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
6. If the owner of a structure does not grant permission to enter, what do you do?
 - a. Call and report to your superior.

- b. Move to the next structure.
 - c. Record denied entry and place a yellow tag.
 - d. All of the above.
7. If a structure shows that their major structural elements have collapsed, what should be done?
- a. Place a red tag and move on to the next structure.
 - b. Inspect the adjacent structures to ensure the building is safe to enter.
 - c. Place a yellow tag and recommend further assessment
 - d. None of the above.
8. When assessing the severity of cracks, one should;
- a. Examine the length and depth.
 - b. Examine the damages nearest to the crack.
 - c. Examine the location of the crack.
 - d. All of the above.
9. Which of the following should not use on RDA inspections?
- a. Safety harness
 - b. Safety glasses (ANSI Z87/Z87+ or similar)
 - c. Protective coverall
 - d. Dust/Gas mask
10. Safety is your number one Priority. You should:
- a. Vet all damages before entering a structure
 - b. Only climb on items that appear to be study
 - c. Investigate damages of adjacent structures before entering
 - d. All of the above.

END OF ASSESSMENT

Answers:

- 1. c
- 2. b
- 3. b
- 4. c
- 5. d
- 6. c
- 7. a
- 8. d
- 9. a
- 10. a

For further information please contact:



The Office of Disaster Preparedness and
Management
A Division of the Ministry of National Security
4a Orange Grove Road
Trincity, Trinidad W.I.
Telephone: (868) 640-1285



TRINIDAD AND TOBAGO RAPID DAMAGE ASSESSMENT TRAINERS' MANUAL 2022