

Climate Resilience Training Program for the Construction Industry

Course Outline

Duration: 10 hours total

Dates & Time:

August 3, 2021	1:30 – 2:30 p.m.
August 4, 2021	1:30 – 2:30 p.m.
August 6, 2021	1:30 – 2:30 p.m.
August 9, 2021	9:30 – 10:30 a.m.
August 11, 2021	9:30 – 10:30 a.m.
August 13, 2021	9:30 – 10:30 a.m.

Facilitators: Right Insights' Consulting Team:

- Daniel Mendez, M. Sc.,
- Engineer Jose Divas
- Dr. Minerva Pinelo

Contact Email: mpinelo@rightinsights.bz

Course Description:

As a low-lying coastal nation, Belize is highly vulnerable to the effects of climate change and the resulting intensification of natural hazards, chiefly storms and flooding. Approximately 40% of the population lives along the coast, therefore, it is vital to strengthen crisis and disaster mitigation and resiliency planning for vulnerable coastal groups and prioritize actions at the community level. On average, Belize is hit every 3 years, with principal hazards being severe losses from wind damage and flooding due to storm surge and heavy rainfall.

The Climate Resilience Training Program for the Construction Industry aims to increase private-industry climate resilience in Belize at the enterprise level in the construction industry, while also helping local stakeholders to capitalize on the growing demand for products and services. Stakeholders in the construction industry have the opportunity to draw from lessons learned, best practices and challenges in the field to support growth in the business and technical capacities among local small to medium enterprises (SMEs) and tradespeople in the construction and building sector so that they can install and provide climate-resilient products and services to interested households and businesses.

This means that learners in this training program will explore a better understanding of climate change and its direct impact on the construction industry. In addition, learners will discuss both mitigation and adaptation actions to address the increased threat of extreme weather conditions on the building sector.

Course Outcomes:

At the conclusion of the course, participants will be able to perform the following tasks:

- Explain climate change and its impacts on construction sector;
- Discuss impact chain of given scenario;
- Identify components of disaster risk and apply the AR5 methodology;
- Understand anthropological factors in mitigating risks;
- Discuss properties of materials (paint components - e.g. emulsifier; metal, wood, concrete's interaction with climate exposure);
- Conduct site assessment (flood & storm surge maps);
- Explain occupational health & safety and its importance to programs and policy;
- Conduct hazard identification and assessment;

In addition, given that this course is a trainer-of-trainers sessions, learners will review basic concepts in pedagogy to:

- Explain instructional strategies;
- Discuss the importance of learning styles;
- Apply conditions for effective learning.

Course Participants – Who Should Attend?

This course is designed for learners who will be in a capacity to train other colleagues, students, support personnel or subordinates at construction sites and include but are not limited to:

- Instructors at Institute for Technical and Vocational Education and Training (ITVET);
- Foremen working for more than 10 years in construction with a maximum of a primary school certificate;
- Engineers with first degree;
- Other project managers at a construction site.

Course Prerequisites

There is no course prerequisite.

Method of Delivery

The Train-the-Trainer Course will be offered via synchronous teaching to make the course more accessible to participants across Belize. A total of 5 hours of instruction will be facilitated via Zoom™ with additional reading course materials, video presentations, assignments, etc. assigned via Google Docs™ and Zoom™ breakout Rooms. It is proposed that the course be offered at least twice a week for 2 weeks during August 2nd to August 13th 2021).

In order to complete the additional reading course materials, video presentations and assignments, an additional 30-90 minutes per module can be allocated for self-directed learning/review or asynchronous learning. Therefore, a total of 10 hours maximum must be allocated for both synchronous teaching and asynchronous learning. Each module allows learners to earn 50 points by completing short quizzes activities, and exercises.

Certification

Learners who fulfill at least 70% (175 out of 250 points) of the requirements will be awarded a *Certificate of Completion*.

Learners who participate but do not submit requirements will be awarded a *Certificate of Participation*.

Course Content

Below is a summary for course content. For additional details, please see Schedule for Train-the Trainers (ToT) Sessions provided.

DATE	TIME	FACILITATOR	SESSION/MODULE	ACTIVITIES/ASSIGNMENTS	REGISTRATION LINK
August 3, 2021	1:30 – 2:30 p.m.	Daniel Mendez, M.Sc.	Module 1: Explaining Climate Change	<ul style="list-style-type: none"> pre-knowledge quiz discussion post case study 	Register Here
August 4, 2021	1:30 – 2:30 p.m.	Daniel Mendez, M.Sc. & Engineer Jose Divas	Module 2: Discussing Disaster Risk Management & Adaptation Actions	<ul style="list-style-type: none"> pre-knowledge quiz exercise risk assessment 	Register Here
August 6, 2021	1:30 – 2:30 p.m.	Engineer Jose Divas	Module 3: Design for Resilience	<ul style="list-style-type: none"> definition exercise case study group presentation 	Register Here
August 9, 2021	9:30 – 10:30 a.m.	Dr. Minerva Pinelo	Module 4: Health & Safety in Construction	<ul style="list-style-type: none"> quiz risk assessment tool report writing toolbox talk 	Register Here
August 11, 2021	9:30 – 10:30 a.m.	Dr. Minerva Pinelo	Module 5: Basics of Instructional Techniques	<ul style="list-style-type: none"> short answers learning style survey toolbox talk 	Register Here
August 13, 2021	9:30 – 10:30 a.m.	Dr. Minerva Pinelo	<i>Consultation Hour to Complete Exercises Assigned</i> <ul style="list-style-type: none"> This session will serve as a review to address questions from learners and to ensure all exercises are completed by the close of business on that day. 	Register Here	