



Tsunami Awareness

Participant Guide

Version 1.2CR



FEMA

NATIONAL DISASTER PREPAREDNESS TRAINING CENTER

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Tsunami Awareness

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Course Introduction

This course provides participants with an understanding of the tsunami hazard, current hazard assessment tools and products, tsunami warning and dissemination systems, effective community response and tsunami risk reduction strategies.

Needs assessment has identified an unmet necessity for tsunami training at awareness, performance, and management levels. Surveys completed in WA, OR, and HI identified that action is required to improve and increase education and outreach in the United States. The tsunami warning issued on the West Coast in 2005 further demonstrated gaps in organizational and public preparedness. This led to public outcry and political action at the state and national level. The 2009 American Samoa earthquake/tsunami attracted national media attention highlighting the importance of community-level tsunami awareness and education when preparing for local tsunamis that can strike adjacent coasts within minutes.

This course will (1) help fill existing educational gaps, (2) support pre-disaster mitigation efforts and (3) contribute to effective response. Students participate in facilitator-led discussion activities that challenge them to identify effective actions that will reduce the impact of a tsunami in their communities. In these activities, participants apply their knowledge of the presented materials and share their experiences in conducting tsunami preparedness, mitigation, and response. This training helps participants understand how organizational preparedness and community-level planning tools support tsunami preparedness.



Participant Notes:

Scope of Course



Participant Note: As the instructor reviews the slides that detail the scope of the course, follow along by referring to the titles, scope, and terminal learning objectives for each module.

Tsunami Awareness		
Scope of Course		
Mod #	Module Title	Time (hrs)
1	Welcome, Administration, & Introduction	1.0
2	Hazard Assessment	1.0
3	Warning	1.0
4	Preparedness, Mitigation, & Response	1.0
5	Exercise Scenario	1.0
6	Tsunami Mitigation, Going Forward: Planning for the Future - Administration	1.0

Slide 1-13. Scope of Course

This class is designed to address tsunami hazards associated with current hazard assessment tools and product, warning and dissemination systems, community response, and tsunami risk reduction strategies. The class consists of six modules. These modules include classroom instruction, instructor-facilitated discussions, practical activities based on materials presented, and scenario-based problems that are intended to facilitate discussion and decision-making.

Module 1: Welcome, Administration, and Introduction

Scope

In this module, participants and instructors will complete course administrative requirements, and participants will learn how their performance will be evaluated. Instructors will present an overview of the course and participants and instructors will introduce themselves.



Participant Notes:

Terminal Learning Objective

Participants will state the course goal and major module objectives and take a pre-test.

Module 2: Hazard Assessment

Scope

Tsunami hazard assessment includes several components. This module introduces the tsunami science and hazard assessment tools that are used to lay the foundation for building tsunami resilient communities. Students will learn about tsunami generation, tsunami characteristics, and scientific tools such as tsunami inundation maps that help at-risk communities understand their risk and exposure to better prepare for a tsunami hazard.

Terminal Learning Objective

Participants will understand the basics of tsunami science and the tools for tsunami hazard assessment.

Module 3: Warning

Scope

At this point, the participants have an understanding of the tsunami hazard and hazard mitigation tools available for identifying tsunami exposure in the community. This module identifies how tsunamis are detected and describes the process and products used to warn all levels of government down to the “*last mile*” including evacuation/clear actions. Participants are instructed in the activities that take place in a tsunami warning system before, during, and after a tsunami event.

Terminal Learning Objective

Participants will be able to describe the tsunami warning process.

Module 4: Preparedness, Mitigation, and Response

Scope

This module provides participants with an understanding of tsunami preparedness, mitigation and response for at-risk tsunami communities. Topics such as evacuation planning, effective public response, the need for exercises and drills, and public education provide the basic foundation for building organizational preparedness and for



Participant Notes:

communities to become tsunami-resilient and participate in the TsunamiReady Program. The instructor will lead facilitated discussions in which participants share their experiences and discuss potential preparedness activities that can be implemented to help reduce the loss of life and property from tsunamis.

Terminal Learning Objective

Participants will be able to apply tsunami preparedness, mitigation and response methods to organizational preparedness efforts.

Module 5: Exercise Scenario

Scope

As a group, participants will apply their knowledge of tsunami wave science, tsunami hazard assessment tools, tsunami warning processes and products, and apply tsunami preparedness, mitigation and response methods to at-risk tsunami communities in a practical exercise scenario.

Terminal Learning Objective

By participating in a practical exercise scenario, participants will apply their knowledge of materials covered in Modules 2 to 4 to at risk tsunami communities impacted by an exercise tsunami event.

Module 6: Tsunami Mitigation, Going Forward – Planning for the Future – Administration

Scope

In this module, the end-to-end tsunami warning system will be summarized. Participants will complete a course evaluation form and provide feedback on the course instruction, content, and materials. Participants will be administered an objectives-based post-test. They must score 70% or greater to receive a Certificate of Completion. Participants will complete a course evaluation form and provide feedback on the course instruction, content, and materials.

Terminal Learning Objective

Participants will complete a post-test and course evaluation.