



E0177 Advanced Hazus

Course Dates:

September 13-16, 2021

Travel Dates:

September 12 and September 17, 2021

Course Length:

This course is 4 days in length.

Location:

Emergency Management Institute (EMI) on the campus of the National Emergency Training Center (NETC), Emmitsburg, Maryland

Course Description:

The course is designed to help students bridge the gap between the hazard-specific, intermediate Hazus courses currently offered at EMI (E0170 Hazus for Hurricane, E0172 Hazus for Flood, and E0174 Hazus for Earthquake and Tsunami) and the knowledge necessary to perform advanced analyses in Hazus applicable for more complex response decision-making or risk-reduction project prioritization. This course provides advanced instruction for users in risk assessment theory and inventory data collection and creation for each of the four Hazus hazards in order to be able to conduct an advanced (level 3) analysis, modifying building damage functions, importing local data, and adjusting other parameters. Course instruction includes lectures, demonstrations, and multiple hands-on individual and group activities. The course culminates in a capstone exercise where students will utilize the skills learned in class to create an analysis using multiple advanced Hazus applications.

Course Objectives:

Upon completion of this course, participants will be able to:

- Explain the theory of natural hazard risk assessment, how it underpins Hazus methodology, and identify how Hazus uses these concepts to support hazard mitigation, emergency preparedness, and other planning efforts.
- Update Hazus inventory data with custom or local data with hazard-specific characteristics to support advanced analyses and demonstrate multiple methods of interacting with this data.
- Identify sources of custom hurricane hazard data and identify advanced applications for the hurricane hazard model.
- Identify sources of custom flood hazard data and identify advanced applications for the flood hazard model.
- Identify sources of custom earthquake hazard data and identify advanced applications for the earthquake hazard model.
- Identify sources of custom tsunami hazard data and identify advanced applications for the tsunami hazard model.
- Conduct an analysis that uses multiple advanced applications of Hazus.
- Understand how losses are calculated, the inherent uncertainties in Hazus estimations, and how to communicate Hazus findings through advanced products.

Prerequisites:

Applicant must have a *Hazus Users Certificate*.

Continuing Education Units (CEUs):

EMI awards 2.8 CEUs for completion of this course.

Target Audience:

Federal, state, local, and tribal emergency managers and GIS specialists; planners; and others who support earthquake mitigation and response activities and who have completed all other training for Hazus.

To Apply:

Scan the QR Code, or [click the link for information on how to apply for EMI courses](#):



https://training.fema.gov/netc_online_admissions

Application Review:

To be evaluated for admission into this course, please upload required attachments. Please refer to the Target Audience above and indicate how you meet the requirements based upon your position and experience.

Travel and Housing Information:

Upon acceptance into the course, NETC Admissions will mail out an Acceptance Letter and Welcome Package outlining travel information, NETC shuttle services, lodging and other logistics. Scan the QR Code below, [or click the link for a PDF copy of the NETC Welcome Package online](#):



http://training.fema.gov/EMIWeb/downloads/NETC_Welcome_Package.pdf

Lodging is provided for course participants on the NETC campus. Participants staying overnight on campus are required to purchase a meal ticket for the duration of the training activity.

Notify the NETC Transportation Office at least 2 weeks prior to the course date to reserve a shuttle seat.

Details for the above are in the Welcome Package.

Notice to Applicants for EMI courses:

Individuals applying for EMI classes will be required to register using the FEMA Student Identification (SID) number. This number will be used in place of the Social Security Number (SSN) on your application form. **The SSN is no longer required.**

How do I obtain my FEMA SID number?

Step 1: [To register, go to:](#)

<https://cdp.dhs.gov/femasid>

Step 2: Click on the "Register for a FEMA SID" button on screen.

Step 3: Follow the instructions and provide the necessary information to create your account.

Step 4: You will receive an email with your SID number. You should save this number in a secure location.

EMI Training Point of Contact:

For additional information, contact the Mitigation Branch at (301) 447-1152 or by email at fema-mit@fema.dhs.gov.

TRAINING OPPORTUNITY