



E0313 Basic Hazus

Course Dates:

June 21-24, 2021

August 30-September 2, 2021

Travel Dates:

June 20 and June 25, 2021

August 29 and September 3, 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:

This course offers a hands-on introduction to Hazus, FEMA's GIS-based tool for analyzing the social and economic impacts from natural hazards including hurricanes, earthquakes, and floods (riverine and coastal). Impact assessments for each hazard include shelter needs, short- and long-term economic losses, and debris estimations. Hazus can also assess impacts on transportation and utilities, agricultural losses, and vehicle losses for selected hazards.

Topics addressed in this course include overviews of building and population inventory components; options for describing the magnitude and extent of modeled hazards; loss estimation methodologies; and options for creating maps, tables, and reports that describe hazard impacts.

Particular emphasis is given to exploring and interpreting the outputs that Hazus can generate as well as discussing how that information can be applied to support emergency management needs and goals. All activities are based on Hazus-provided inputs.

After completing this course, participants can optionally take additional Hazus courses to learn to refine loss estimations by adjusting model parameters or by integrating their own inventory and hazard data.

Course Objectives:

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

- Learn the types of information that Hazus can produce as well as how that information relates to emergency management.
- Learn how to install Hazus and create a study region.
- Know how to navigate the Hazus software user interface.
- List the types of inventory data common to all four models and explain the difference between site-specific and aggregate inventory.
- Develop a basic understanding of how Hazus generates information about exposure and losses related to flood, earthquake, and hurricane hazards.
- Understand the fundamentals of the Hazus flood model and summarize the different analyses that can be completed.
- Understand the fundamentals of the Hazus earthquake model and summarize the different analyses that can be completed.
- Understand the fundamentals of the Hazus tsunami model and summarize the different analyses that can be completed.
- Understand the fundamentals of the Hazus hurricane model and summarize the different analyses that can be completed.

TRAINING OPPORTUNITY

Prerequisites:

Skills equivalent to those taught in E0190, ArcGIS for Emergency Managers.

Continuing Education Units (CEUs):

EMI awards 2.8 CEUs for completion of this course.

Target Audience:

Federal, state, local, and tribal specialists, researchers, insurance companies, utilities, and others who are involved with or interested in understanding the social and economic impacts associated with floods, hurricanes, or earthquakes.

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-emi-mit@fema.dhs.gov.

TRAINING OPPORTUNITY