



Course: *E0312 Fundamentals of Building Science*

Course Dates:

September 12-15, 2016

Travel Dates:

September 11 and September 16, 2016

Course Length:

This course is 4 days in length.

Location:

Emergency Management Institute (EMI)
National Emergency Training Center (NETC)
Emmitsburg, Maryland

Course Description:

This course is designed to present information on the risks posed by natural hazards, and the basic scientific and engineering concepts for hazard-resistant buildings and facilities. The course reviews information pertaining to impacts of wind, flood, earthquake, and wildland/urban interface fire on the constructed environment, and explains key performance and construction issues related to floods, wind, wildfires, and earthquakes.

Course Goal:

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

1. Understand the characteristics of each hazard.
2. Identify sources of information concerning critical properties of each hazard; e.g., hazard size and intensity classification systems.
3. Recognize the damage risk to the constructed environment for each hazard.
4. Recognize hazard-resistant design provisions in the model building codes for each hazard.
5. Identify mitigation options and technologies for each hazard.

6. Identify current and emerging critical issues for each hazard.
7. Identify resources of technical information helpful in developing and evaluating proposed mitigation strategies.
8. Describe FEMA Building Sciences Branch roles and responsibilities in advancing hazard resilient communities, its programs and activities for pre- and post-disaster hazard mitigation.
9. Recognize key issues of wind, flood, earthquake, and wild land/urban fire hazards and respective hazard mitigation.
10. Describe potential risk synergies present in multi hazard environments, key issues in recognizing and managing risk associated with multi hazard environments.

Prerequisites:

None.

Continuing Education Units (CEU's):

EMI awards 2.8 CEUs for completion of this course.

Continuing Education Credits (CEC's):

The Association of State Floodplain Managers awards 12 CECs for completion of this course.

Target Audience:

The primary audience for this course is engineers and architects. Floodplain Managers and Building Code Officials are also encouraged to attend. Hazard Mitigation, Planning, Zoning, Public Works, and other Building Officials with building science knowledge and also those from the private sector, such as engineering firms, may also apply.

TRAINING OPPORTUNITY

To Apply:

Complete a FEMA Form 119-25-1, General Admissions Application, with student signature and signature of supervisor or sponsoring agency official. Submit the application no later than 6 weeks prior to the start of the course. Mail, scan, or fax the application to:

NETC Admissions Office (Room I-216)
National Emergency Training Center
16825 South Seton Avenue
Emmitsburg, MD 21727-8998
Phone: (301) 447-1035 Fax: (301) 447-1658
Email: netcadmissions@fema.dhs.gov

Scan the QR Code, or click the link to get information on how to apply for EMI courses:



<http://training.fema.gov/Apply/>

Note to RTMs and RPMs and STOs: The FEMA Form 119-25-1 must be received by NETC Admissions – no later than **August 1, 2016**.

Application Review:

In order to be evaluated for admission into this course, block #16 on the application form must be completed. Please refer to the Target Audience above and indicate how you meet the requirements based upon your position and experience.

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 seat. Call (301) 447-1048, ext. 1113, or email FEMA-netc-housing@fema.dhs.gov.

Travel Authorizations:

Funding for the training activity is being provided by IWMD for FEMA Employees. PFT and CORE employees must ensure their travel authorization (TA) is completed through Concur Government Edition (CGE) Travel System for course offerings. RPM/IWMD will supply Reservists Travel Authorization information and deploy Reservists in DTS.

All Federal travelers must have an approved TA prior to travel. A copy of the TA must be presented upon arrival. No exceptions are made to the NETC policy.

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 "Need a FEMA SID" button on the right side of the 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 Point of Contact:

For additional information, contact the course manager, Prasad Inmula, at (301) 447-1374, or by email at Prasad.Inmula@fema.dhs.gov.

TRAINING OPPORTUNITY