



E2460: Advanced Building Science Flood and Wind Mitigation Series

Course Dates:

May 9–13, 2022

Travel Dates:

May 8 and May 14, 2022

Course Length:

This course is 4.5 days in length.

Location:

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

Course Description:

This course is an advanced topics course addressing the ever-changing challenges faced from flood and wind risk through a comprehensive approach of best-practice mitigation, code compliance, designing for future conditions, and FEMA policies and funding mechanisms aimed at achieving higher standards.

It is a 4½-day course comprised of multiple modules that will focus on:

1. Flood Provisions of the I-Codes and ASCE-24
2. Strategies for Maximizing Floodproofing Success
3. Steps to a Successful Elevation
4. Incorporating Future Conditions into Flood Design
5. Wind Provisions for Mitigation and Safe Room Design
6. Critical Building Performance for Wind
7. FEMA Policies and Funding Programs for Increased Resilience

Course Goal:

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

1. Reinforce learning concepts through comprehensive exercises and exposure to

- FEMA Building Science Branch products, Risk MAP tools, and other industry resources.
2. Promote increased compliance of hazard-resistant building codes and floodplain management ordinances through better understanding of the relationships of the I-Codes, NFIP, and ASCE-24.
3. Increase knowledge of flood and wind hazard best practice, mitigation strategies, and lessons learned through post-disaster, FEMA Mitigation Assessment Team observations.
4. Provide solutions for designing for future conditions, to help communities adapt to probable future flood hazards and lifetime building performance and operation requirements.

Prerequisites:

It is recommended that participants complete EMI resident course E0312 (Fundamentals of Building Science) or Independent Study courses IS-279.a (Introduction to Retrofitting Flood-Prone Residential Buildings) and IS-386 (Introduction to Residential Coastal Construction) prior to the class.

Continuing Education Units (CEUs):

EMI awards 2.8 CEU and ASFPM awards 12 CECs for completion of this course.

Target Audience:

The target audience are designers, building code professionals, floodplain managers, hazard mitigation/municipal planners, and persons with building science knowledge.

To Apply:

For information on how to apply for EMI courses, click this link: [National Emergency Training Center Online Admissions Application](https://training.fema.gov/netc_online_admissions) (https://training.fema.gov/netc_online_admissions).

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For FEMA Staff:

If the course is on their PTB, go to DTS and self-register. If the course is not on the staff member's PTB, send an email to [FEMA-FQS-Training](mailto:fema-fqs-training@fema.dhs.gov) (fema-fqs-training@fema.dhs.gov) requesting registration instructions.

Application Review:

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.

Please note - NETC Admissions will notify you of your acceptance into this course via email with an Acceptance Letter/Welcome Package. The course manager will send a separate email prior to the course outlining additional information to ensure you have a successful experience.

Notice to Applicants for EMI Courses:

Individuals applying for EMI classes will be required to register using the FEMA Student Identification (SID) number.

How do I obtain my FEMA SID number?

Step 1: To register, go to: [FEMA Student Identification System](https://cdp.dhs.gov/femasid)

(<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.

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.

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