

HalfMoon Education Live Continuing Education Webinars

Flood-Resistant Design and Construction

Online - Wednesday, May 10, 2023 | 9:00 am - 4:30 pm CDT

Credits: Professional Engineers: 6.5 PDHs
Architects: 6.5 HSW CE Hours AIA: 6.5 LU|HSW
International Code Council: .65 CEUs (Building)
Floodplain Managers: 6.5 ASFPM CECs

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AIA
Continuing
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PREFERRED
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PROVIDER

Understanding Floods, Flood Maps, Flood Damage and the National Flood Insurance Program (NFIP)

Floodplain basics

Types of flooding and flood damage

- Inland
- Riverine
- Coastal

Flood insurance rate maps

Flood zones

Flood insurance studies

Authorities having jurisdiction

Case studies

Designing and Constructing Flood-Resistant Buildings in Compliance with Codes and American Society of Civil Engineers (ASCE) 24-14 and NFIP Requirements

Basic design and construction requirements

- Elevation requirements
- Foundation requirements
- Use of fill
- Anchorage and connections

Loads in flood-prone buildings ASCE 7

Breakaway walls and slabs

Flood vents and openings

Addressing Specific Flood-Related Risks

Working in areas subject to erosion or mudslides

Working in areas subject to high-velocity flows or waves

Protection from debris

Using Flood-Resistant Materials/Floodproofing

Reviewing specific materials for flood hazard areas

- Concrete, masonry, wood, steel finishes

Dry and wet floodproofing

Building access

Decks, garages, pools, tanks

Considerations for Electrical, Mechanical and Plumbing Systems

Electrical service

Plumbing systems

HVAC systems

Presented by

Jessica Mandrick, PE, SE, LEED AP

Partner at Gilsanz Murray Steficek LLP in New York City

Ms. Mandrick has provided structural engineering services for numerous buildings located in hurricane and flood hazard areas. She served on the ASCE 24 Urban Flood Study team after Hurricane Sandy, assisted with the DOB Sandy recovery efforts, and was a team member on the 2016 Earthquake Reconnaissance trip to Taiwan after the Meinong Earthquake. Ms. Mandrick is a member of the ASCE 24 Flood Resistant Design & Construction Committee, served as the Secretary-Balloteer-Historian for the ASCE 7-22 Flood Load Subcommittee and assisted with edits to Appendix G of the New York City Building Code. She also serves on the Editorial Board of *STRUCTURE* Magazine. Ms. Mandrick holds dual degrees from Swarthmore College – one in Engineering and the other in Studio Art. She is a professional civil engineer in New York, a registered structural engineer in California, and a LEED AP. She enjoys sailing the not so high seas.

Tuition

\$319 for individual registration

\$289 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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or scan here



Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

This webinar has been approved by the Association of State Floodplain Managers for 6.5 CECs for floodplain managers.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 6.5 HSW LUs (AIA)

Can't Attend? Order the Webinar as an On-Demand Package!

Recordings of this webinar are available for purchase. See details online for more information.