

HalfMoon Education Live Continuing Education Webinars

Residential Structural Design

Online - Thursday, December 15, 2022 | 8:30 am - 4:30 pm CST

Credits:

Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours AIA: 6.5 LU|HSW

International Code Council: .65 CEUs (Building)

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AIA
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PREFERRED
EDUCATION
PROVIDER

Webinar Agenda | Thursday, December 15, 2022 | 8:30 am - 4:30 pm CST (including a 60-min. break)

Understanding Structural Loads

- Types of structural loads
- General structural integrity
- Classifying buildings and structures
- Modifying and expanding existing structures

Residential Design Loads

- International Residential Code Structural (IRC) structural provisions
- Other standards and guidelines
- Dead loads Live loads
- Combined loads Wind loads
- Ice and snow loads Flood loads

Residential Foundation Design

- Examining site soils and characteristics
- Determining bearing capacity
- Choosing a foundation type: footings, piles, basements, slabs

Frame Design

- Choosing framing materials
- Framing floors Framing walls
- Roof framing options Connection design

Designing for Wind, Snow, Flood and Seismic Loads

- Wind resistance design
- Managing snow and ice loads
- Handling flood and wave loads
- Seismic design options

Workshop: Structural Design of a Single-Family Home

Presented by

Marcus E. Woods PE, MSc & LEED AP

Owner of Woods Residential Engineering & Inspection

After working in engineering and design management with award-winning structural and construction firms for nearly 10 years, Marcus E. Woods founded his own firm, Woods Residential Engineering & Inspection. Mr. Woods is a licensed professional engineer in multiple states, holds bachelor's and master's degrees in Civil Engineering (with a focus on structures) from Washington University in St. Louis, and has earned "Accredited Professional" status from the U.S. Green Building Council. Mr. Woods is a member of: The Woods Educational Enrichment Foundation; he is a member of the National Society of Black Engineers (NSBE) where he is Director of Programs for the Chicago professional chapter, the American Society of Civil Engineers, and the Structural Engineers Association of Illinois.

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.

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 and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

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.

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 LU/HSW (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. I232).

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).

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