

Credit Information

Seismic Design Criteria of Buildings and Other Structures

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 License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GPOOO49300) and North Carolina (S-O130). 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).

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 is not pre-approved by any licensing boards and may not qualify for the same credits; 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)

Residential Structural Design

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Live, Interactive Webinars

- Seismic Design Criteria of Buildings and Other Structures
- Residential Structural Design

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Live, Interactive Webinars

Seismic Design Criteria of Buildings and Other Structures

- Tuesday, December 17, 2024 | 9:00 am - 4:30 pm CST

Residential Structural Design

- Thursday, December 19, 2024 | 9:00 am - 4:30 pm CST



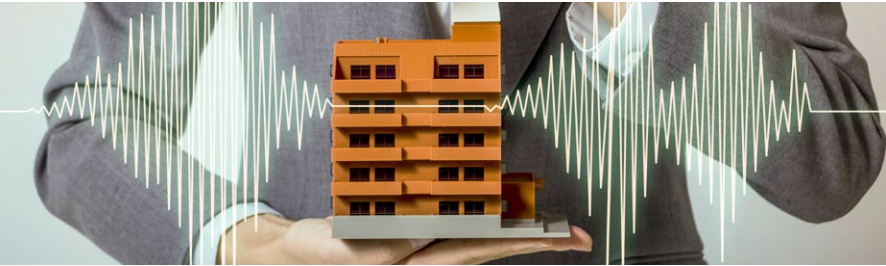
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Tuition: \$339 per registrant
\$237 per attendee for group registrations of two or more people registering at the same time for the same program. *That's a savings of 30 percent!*

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- Agenda:**
- Seismology and Earthquake Actions**
- Earthquake characteristics
 - Effects of soil conditions
 - Western, central, and eastern U.S. seismicity
- Structural Dynamics and Response**
- Ground motions and structural response
 - Response spectra
 - Damping
 - Modal superposition analysis
- Modern Philosophy of Seismic Design**
- Seismic design objectives
 - Life Safety and seismic resilience
 - New buildings and existing buildings
- U.S. Seismic Codes**
- History
 - Performance objectives
 - Hazard levels
- ASCE 7 Seismic Design**
- Basic requirements
 - Classification of buildings and other structures
 - Seismic design criteria
 - Mapped spectral response
 - Design response spectrum
 - Seismic design category and design factors
 - Seismic force resisting systems
- Material-Specific Seismic Force Resisting Systems**
- Existing Buildings ASCE41
 - AASHTO and Caltrans
 - LNG tanks ACI 376 and API 620
 - High-rise buildings

Presented by
Jorge Meneses, PhD, PE, GE, D.GE, F.ASCE, is a senior principal geotechnical engineer with Worley Consulting. He was a member of the California Seismic Safety Commission appointed by Governor Brown and confirmed by State Senate (2017-2021). He is a reviewer of seismic ground motions for the seismic design of high rise buildings for the City of San Diego, part-time faculty in the Graduate School of Civil Engineering at San Diego State University, Fellow of the American Society of Civil Engineers (ASCE), member of the Industry Advisory Board of the Department of Structural Engineering at University of California San Diego, past member of the Board of Directors of the Earthquake Engineering Research Institute (EERI), past president of the EERI San Diego Chapter, past member of the ASCE 7-16 Committee (Minimum Design Loads for Buildings and Other Structures) and current member of the ASCE 7-28 Committee. He is a member of the ASCE 1 Committee (Geotechnical Analysis, Design, Construction, Inspection and Monitoring of Nuclear Safety-Related Structures) and he is honorary chair of the ASCE Geo-Institute San Diego Chapter; and member of the Academy of Geo-Professionals.

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- Agenda:**
- 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
Daniel P. Messmer, P.E., D. GE
Project Manager with The Gateway Engineers, Inc., in Pittsburgh
Mr. Messmer has over 30 years of engineering experience in analysis, design, plan/specification development, and project management/personnel supervision for geotechnical, foundation and structural engineering projects in the transportation, industrial, municipal and commercial fields of civil engineering. Throughout his career he has placed an emphasis on quality control and staff training. Mr. Messmer is a member of the American Society of Civil Engineers, the American Concrete Institute, the American Society of Highway Engineers and the Society of American Military Engineers. He earned his B.S. degree in Civil Engineering from the University of Pittsburgh. Mr. Messmer was accepted into the Academy of Geo-Professionals in 2013.

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Additional Learning

National Electrical Code 2023
- Friday, November 8, 2024 | 8:30 am - 4:30 pm CST

Managing Engineering Liability and Risk
- Tuesday, November 12, 2024 | 8:30 am - 4:30 pm CST

Pump Station Design and Construction
- Tuesday, November 12, 2024 | 9:00 am - 4:00 pm CDT

Engineering Ethics and Consequences
- Wednesday, November 13, 2024 | 1:00 - 2:00 pm CST

2024 International Residential Code
- Wednesday, November 13, 2024 | 8:30 am - 5:00 pm CST

Understanding Roof Trusses and Analyzing Their Design
- Thursday, November 14, 2024 | 9:00 am - 12:15 pm CST

Drone Applications for Engineers
- Monday, November 18, 2024 | 9:00 am - 4:00 pm CST

Turning a Deck into a Porch or Enclosed Living Space
- Monday, November 18, 2024 | 8:30 am - 12:50 pm CST

2024 International Building Code: Accessibility
- Tuesday, November 19, 2024 | 12:00 - 4:30 pm CST

Adaptive Reuse of Commercial Buildings
- Wednesday, November 20, 2024 | 9:00 am - 4:00 pm CST

Structural Forensic Engineering Case Studies
- Wednesday, November 20, 2024 | 9:00 am - 4:00 pm CST

Cold-Formed Steel Design in Load-Bearing and Nonload-Bearing Applications
- Monday, November 25, 2024 | 9:00 am - 4:00 pm CST

Complying with Fire Protection and Building Codes
- Monday, November 25, 2024 | 9:00 am - 5:00 pm CST

Residential Wiring Basics under the National Electrical Code
- Tuesday, November 26, 2024 | 9:00 am - 4:00 pm CST

2024 International Building Code: Special Inspections and Construction Safeguards
- Tuesday, December 3, 2024 | 12:00 - 4:30 pm CST

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