

Agenda

General

Basic requirements
General structural integrity
Classification of buildings and other structures
Additions and alterations to existing structures
Load types/case

Combinations of Loads

Ultimate strength design versus working stress design
Load combinations

Dead Loads, Soil Loads, and Hydrostatic Pressure

Weights of materials and constructions
Soil loads and hydrostatic pressure

Live Loads

Uniformly distributed loads
Required live loads Provision for partitions
Concentrated loads
Loads on handrails, guardrail systems, grab bar systems,
vehicle barrier systems, and fixed ladders
Impact loads Live load reduction

Flood Loads

Design loads Loads on breakaway walls
Hydrostatic and hydrodynamic loads Wave loads

Wind Loads

Allowed procedures (methods 1, 2, 3)
Basic definitions and requirements
Main wind force resisting system versus components and cladding
Wind speed, importance factor, exposure, enclosure classifications
Method 1—simplified procedure Method 2—analytical procedure

Snow Loads

Ground and roof snow loads Design coefficients
Unbalanced and snow drift loads

Rain Loads

Seismic Design Criteria

Scope and applicability
Seismic ground motion values/geologic hazards and geotechnical investigation
Importance factor and occupancy category
Seismic design category
Simplified structural design criteria for simple bearing wall or building frame systems
Seismic design requirements for nonstructural components

Structural Design Loads in Accordance
with the ASCE-7 Standard
White Plains, NY - Friday, May 17, 2019



HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Calculate dead loads and live loads, and understand load combinations.

Learn about the impact of soil loads and hydrostatic pressure on structures.

Analyze live loads, including concentrated loads and impact loads.

Understand wind load design, including main wind force resisting systems.

Discuss the impact of unbalanced and snow drift loads on structures.

Evaluate seismic design requirements for structural and nonstructural components.



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Examine dead loads, soil loads and hydrostatic pressure

Learn about live loads and impact loads

Explore flood loads, including loads on breakaway walls and wave loads

Discuss weather loads including wind, snow and rain loads

Study seismic design criteria for structural and nonstructural components

Continuing Education Credits

Professional Engineers
6.5 Continuing Ed. Hours

Architects
6.5 HSW Continuing Ed. Hours
6.5 AIA HSW Learning Units

International Code Council
.65 CEUs (Building)

Contractors
Non-Credit Continuing Ed.



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Faculty

Patrick Conlon, P.E. *Founder and Managing Principal of Conlon Engineering, LLC*

Patrick Conlon is a licensed professional engineer with 20 years of high-profile structural engineering experience. He has lent his expertise and creativity to large, challenging new high-profile construction projects including the iconic Yankee Stadium, the 75-story tall One57 in Manhattan, and the new 22,000 sf steel-framed column-free Blessed Kateri Church in Lagrangeville, New York as well as numerous other projects of various scales. The owners, architects, contractors, and property managers with whom he collaborates seek him out as a project partner because of his work ethic and focused client service.

As founder and managing principal of Conlon Engineering, LLC, in Brookfield, Connecticut, Mr. Conlon has created a culture that is highly client-focused and disciplined, making it easy for colleagues to recommend him. He takes great pride in the firm's ability to address structural challenges for diverse clients in the areas of new construction, renovation and structural rehabilitation of existing structures in a variety of categories including commercial, residential, industrial, office, school, religious, historic and recreational buildings; adaptive reuse projects; LEED-accredited projects; peer reviews of other engineers' work, and feasibility studies.

Mr. Conlon is a registered professional engineer in Connecticut, New York, New Jersey and Massachusetts. He has BS and MS degrees in Civil Engineering from Manhattan College and is a member of the American Society of Civil Engineers, the Structural Engineers Coalition (CT), the International Code Council and the American Institute of Steel Construction.

Additional Learning

Webinar Series

Off-Grid Master Class

- **Off-Grid Master Class, Part I**
Wed., April 17, 2019, 11:00 AM - 2:15 PM CDT
- **Off-Grid Master Class, Part II**
Thur., April 18, 2019, 11:00 - 2:15 PM CDT

Soil Engineering

- **Introduction to Soil Engineering**
Thurs., April 25, 2019, 11:00 AM - 12:30 PM CDT
- **Design of Excavation Support Systems**
Thurs., April 25, 2019, 1:00 - 2:30 PM CDT
- **Slope Repair Techniques**
Fri., April 26, 2019, 11:00 AM - 12:30 PM CDT
- **Soil Engineering after College: Practical Approaches to Foundations and Retaining Structures**
Fri., April 26, 2019, 1:00 - 2:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

Structural Design Loads in Accordance with the ASCE-7 Standard
White Plains, NY - Friday, May 17, 2019

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Code:	Name: _____ Occupation: _____ Email: _____ Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Name: _____ Occupation: _____ Email: _____ Phone: _____
Complete the entire form. Attach duplicates if necessary.		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
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Seminar Information

Crowne Plaza White Plains
66 Hale Avenue
White Plains, NY 10601
(914) 682-0050

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:00 pm
Lunch (on your own)
12:00 - 1:00 pm
Afternoon Session
1:00 - 4:30 pm

Tuition

\$289 for individual registration
\$269 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 continuing education hours to professional engineers and 6.5 HSW continuing education hours to architects in all states.

HalfMoon Education is an approved continuing education provider for New York engineers (NYSSED Sponsor No. 35).

HalfMoon Education is deemed a New York-approved continuing education provider for architects via its affiliation with the American Institute of Architects.

The American Institute of Architects has approved this course for 6.5 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES. Courses approved by the AIA qualify for New Jersey architects.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building.

This event offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state with a continuing education requirement for contractors.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.