

Credit and Webinar Information

Seismic Design and Construction

This webinar offers 7.0 PDHs to professional engineers and 7.5 HSW continuing education hours to architects licensed 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), North Carolina (S-0130), and North Dakota. 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 7.5 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .75 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Structural Design Loads under the ASCE 7 Standard

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Live, Interactive Webinars

- Seismic Design and Construction
- Structural Design Loads under the ASCE 7 Standard

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Live, Interactive Webinars

Seismic Design and Construction

- Tuesday, May 25, 2021 | 11:00am - 3:00 pm CDT
- Wednesday, May 26, 2021 | 11:00 am - 2:30 pm CDT

Structural Design Loads under the ASCE 7 Standard

- Thursday, May 27, 2021 | 8:30 am - 5:00 pm CDT

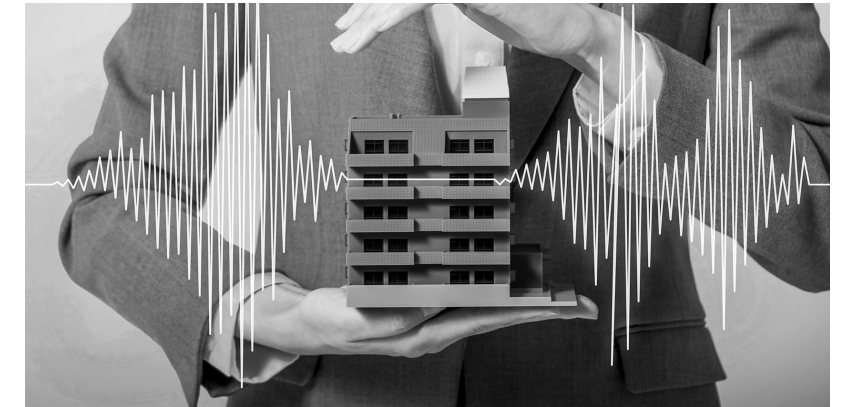
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HalfMoon Education Online Learning Live, Interactive Webinars



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**AIA
Continuing
Education
Provider**



Seismic Design and Construction

Tuesday, May 25 and Wednesday, May 26, 2021

Tuition: \$289 per registrant, \$199 per registrant for three or more

Credits: Professional Engineers: 7.5 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.5 LU | HSW International Code Council: .75 CEUs (Building)

Presented by Jon F. Sfura, Ph.D., P.E., S.E.

Day One: Tuesday, May 25, 2021

11:00 am - 3:00 pm CDT (incl. a 15-min. break)

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 Inelastic response and ductility
Proportioning

U.S. Seismic Codes

History Performance objectives
Hazard levels

Day Two: Wednesday, May 26, 2021

11:00 am - 3:00 pm CDT (incl. a 15-min. break)

ASCE 7 Seismic Design

Mapped spectral response Design response spectrum
Seismic design category and design factors
Seismic force resisting systems Estimating period
Structural irregularities Equivalent lateral force procedure
Load combinations, overstrength, redundancy
Diaphragms and shear walls Deflection limitations

Material-Specific Seismic Force Resisting Systems

International Building Code (IBC) provisions
American Institute of Steel Construction (AISC 341) provisions
American Concrete Institute for Structural Concrete (ACI 318) provisions
American Concrete Institute for Masonry Structures (ACI 530) provisions

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Structural Design Loads under the ASCE 7 Standard

Thursday, May 27, 2021 | 8:30 am - 5:00 pm CDT (incl. a 60-min break)

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Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.0 LU | HSW International Code Council: .7 CEUs (Building)

Presented by Robin M. Closs, S.E., P.E.

Understanding Structural Loads

Types of structural loads General structural integrity
Classifying buildings and structures

Earthquake Loads

Scope and applicability Seismic ground motion values
Calculating seismic loads Seismic design category

Dead Loads

Weight of materials and structure

Live Loads

Uniformly-distributed loads Concentrated loads
Required live loads Live load reduction
Impact loads

Soil Loads

Geotechnical investigation Retaining wall calculations
Overturning, sliding, bearing

Wind Loads

Allowed procedures Basic definitions and requirements
Wind speed, importance factor, exposure, enclosure
Main wind force resisting system calculations
Wind on other structures

Snow and Ice Loads

Calculating snow drift and ice loads
Flat roof, sloped roof, unbalanced, sliding snow

Load Combinations

Design shortcuts

Rules of thumb
Modifying and expanding existing structures

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Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of these webinars are available for purchase. Visit these course listings on our website 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.

Faculty

Seismic Design and Construction

Jon F. Sfura, Ph.D., P.E., S.E.

Senior Associate at Wiss, Janney, Elstner Associates, Inc. in Northbrook, Illinois

Dr. Sfura is a senior associate at Wiss, Janney, Elstner Associates, Inc. in Northbrook, Illinois. His experience includes the assessment of structural distress and serviceability problems, the investigation of structural failures, peer review, and the rehabilitation of structures. He has published and lectured on seismic design and performance, and on the assessment and rehabilitation of structures.

Dr. Sfura received his B.S. degree in Civil Engineering from Purdue University, and his M.S. and Ph.D. degrees in Civil Engineering from the University of Illinois. He studied the nonlinear seismic response of asymmetric steel structures to earthquake ground motions as a doctoral candidate. Dr. Sfura is a licensed structural engineer in Illinois, civil engineer in California, and professional engineer in Florida and Michigan. He is a member of the Building Seismic Safety Council (BSSC), the Earthquake Engineering Research Institute (EERI), and the Structural Engineers Association of Illinois (SEAOI).

Wiss, Janney, Elstner Associates, Inc. is an employee-owned interdisciplinary firm with 19 offices across the United States. Its team of structural engineers, architects, and material scientists use problem solving and a hands-on technical approach to construction challenges, with virtually every construction material, structural system, and architectural component.

Structural Design Loads under the ASCE 7 Standard

Robin M. Closs, S.E., P.E., has 15 years of experience as a structural engineer, designing and analyzing anything from pipes to multistory buildings in fields such as commercial, power, government, institutional, nuclear, industrial, and residential. She traveled to Long Island in the aftermath of Hurricane Sandy as part of a Code Enforcement Disaster Assistance Response Team. Her engineering knowledge in timber, concrete, steel, masonry, aluminum, and light-gauge metal has helped her design new buildings, complete renovations and additions, demolish existing structures, produce mechanical platforms, and design appropriate repairs to roofs, walls, floors, and spillways. Ms. Closs is the president of The Engineering Society of Buffalo and currently creates, writes, and edits their monthly newsletter. She also regularly spends time tutoring and greatly enjoys assisting young minds to see the benefits of engineering. She has also acted as the principal coordinator for 80 person volunteer teams, judged inventions, and mentored winners of engineering city competitions. Ms Closs graduated from the Milwaukee School of Engineering with a BS degree in Architectural Engineering with a Structural Specialty. She is a licensed professional engineering in multiple states, is a licensed structural engineer in Illinois, and is certified as a NCEES Model Law Structural Engineer. Her goal is to meet client needs in a positive and timely fashion!

Additional Learning

Passive House: Planning and Design

- Mon, April 26, 2021 | 8:30 am - 4:00 pm CDT

Stormwater Basins

- Mon, April 26, 2021 | 8:30 am - 4:30 pm CDT

Structural Forensic Engineering

- Tues, April 27, 2021 | 7:30 am - 4:00 pm CDT

Construction Cost Estimating

- Wed, April 28, 2021 | 8:30 am - 4:30 pm CDT

Developing Infrastructure

for Electric Vehicles

- Thurs, April 29, 2021 | 9:30 am - 4:30 pm CDT

Foundation Damage and Repair:

Science, Materials and Techniques

- Thurs, April 29, 2021 | 9:30 am - 5:00 pm CDT

Structural Dynamics for Seismic Design

- Fri, April 30, 2021 | 8:30 am - 3:30 pm CDT

Handling Ethical Issues

in Government Projects

- Fri, April 30, 2021 | 12:00 - 1:00 pm CDT

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