

# Agenda

Presented by Marcus E. Woods, PE & LEED AP

**Understanding Structural Loads and ASCE/SEI 7-22**

- Types of structural loads
- General structural integrity
- Classifying buildings and structures
- Modifying and expanding existing structures
- Development of ASCE/SEI 7-22
- Adoption and enforcement of ASCE 7 standards

**Dead Loads, Soil Loads and Hydrostatic Pressure**

- Weight of materials and structure
- Soil loads and hydrostatic pressure

**Live Loads**

- Uniformly distributed loads
- Concentrated loads
- Required live loads
- Impact loads

**Rain, Ice and Snow Loads**

- Calculating rain, ice and snow loads on roofs
- Design coefficients
- Unbalanced, drifting and sliding loads
- Calculating flood loads

**Wind Loads and Tornado Loads**

- Wind speed, importance factor, exposure, enclosure classifications
- Allowed procedures (methods 1, 2 and 3)
- Basic definitions and requirements
- Main wind force resisting system vs. components and cladding
- Tornadic loads

**Selected Appendices**

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**Structural Design Loads under the ASCE 7-22 Standard**

Live, Interactive Webinar - Friday, April 26, 2024

NON-PROFIT  
U.S. POSTAGE PAID  
EAU CLAIRE, WI  
PERMIT NO. 2016

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



## Learning Objectives

**You'll be able to:**

- Discuss** types of structural loads and general structural integrity.
- Analyze** soil loads and hydrostatic pressure.
- Review** required live loads and impact loads.
- Examine** design coefficients relating to loads.
- Comply** with provisions on main wind force resisting systems.
- Design** for tornadic loads.



HalfMoon Education Live Webinars

# Structural Design Loads under the ASCE 7-22 Standard

Live, Interactive Webinar - Friday, April 26, 2024



**Explore** the development of ASCE/SEI 7-22

**Design** for dead loads, soil loads and hydrostatic pressure

**Examine** and discuss live loads

**Discuss** rain, ice, and snow loads

**Understand** wind loads and tornadic loads

Continuing Education Credits

**Professional Engineers**  
6.5 PDHs

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

**International Code Council**  
.65 CEUs (Building)

AIA  
Continuing  
Education  
Provider



# Webinar Information

Friday, April 26, 2024 | 9:00 am - 4:30 pm CDT

Log into Webinar: 8:30 - 9:00 am CDT

First Session: 9:00 - 11:00 am CDT

Break: 11:00 - 11:30 am CDT

Second Session: 11:30 am - 2:00 pm CDT

Break: 2:00 - 2:30 pm CDT

Third Session: 2:30 - 4:30 pm CDT

## 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.

## How to Register

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# Faculty

**Marcus E. Woods, PE & LEED AP** *Woods Residential Engineering & Inspection*

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

# 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 License No: CEA362), 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).

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)

# Additional Learning

**Electrical Basics for Building Professionals: Understanding and Calculating Electrical Loads**

- Tuesday, March 26, 2024 | 9:00 am - 12:15 pm CDT

**Electrical Basics for Building Professionals: Residential Electrical Circuit Design**

- Tuesday, March 26, 2024 | 1:00 - 4:15 pm CDT

**Current Issues in Interior Design**

- Tuesday, March 26, 2024 | 8:00 am - 4:30 pm CDT

**Complying with the Uniform Plumbing Code 2021**

- Tuesday, March 26, 2024 | 9:00 am - 4:30 pm CDT

**Residential and Small Commercial Roof Design and Construction**

- Thursday, March 28, 2024 | 9:00 am - 4:30 pm CDT

**2021 International Residential Code: Electrical Systems**

- Tuesday, April 2, 2024 | 12:00 - 4:30 pm CDT

**Basics of Reinforced Concrete**

- Wednesday, April 3, 2024 | 1:30 - 4:45 pm CDT

**Commercial and High-End Residential Deck Design and Construction**

- Wednesday, April 3, 2024 | 9:00 am - 4:00 pm CDT

**Electrifying Existing Homes: Installation, Commissioning, and Customer Education**

- Thursday, April 4, 2024 | 10:00 am - 12:00 pm CDT

**Stucco Design, Installation and Repair**

- Thursday, April 4, 2024 | 9:00 am - 4:00 pm CDT

**Designing and Constructing Slab-on-Grade Foundations**

- Tuesday, April 9, 2024 | 9:00 am - 12:00 pm CDT

**Designing and Constructing Spread Footing Foundations**

- Tuesday, April 9, 2024 | 1:00 - 4:00 pm CDT

**Engineered Lumber Design and Construction**

- Wednesday, April 10, 2024 | 9:00 am - 5:00 pm CDT

**National Electrical Code 2023**

- Wednesday, April 10, 2024 | 8:30 am - 5:00 pm CDT

**Air-Source Heat Pumps for Residential and Small Commercial Buildings**

- Thursday, April 11, 2024 | 9:00 am - 5:00 pm CDT

**Focus on Sustainable Lumber**

- Monday, April 15, 2024 | 10:00 am - 12:15 pm CDT

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