

Agenda

Presented by Don Sivigny

Understanding the Required Codes and Warranties

- Understanding codes
- Contractor warranty requirements
 - One-year, two-year and ten-year warranties

Physics of Water in All Three Phases

Frozen (ice) liquid (water) gas (vapor)

Soils, Footings, Foundations, and Backfill (Grade and Below Grade Items)

- Delivery and storage
 - Capacity loads
 - Frame loads
- Materials
- Choices of materials
- Their moisture management systems
- Understanding dewpoint locations

The Construction of the Building Above Grade

- Materials
- Weather-resistive barriers
- Flashings (do's and do not's)
- Exterior cladding
- Roof systems (bulk water management)

Indoor Air Quality (IAQ) and Ventilation

- The effects
 - Occupants
 - Building envelope
- Understanding the relationship of the envelope and the interior environment
- Moisture loads
- Ventilation
 - Continuous ventilation
 - Interment ventilation
 - Total ventilation
- Mechanical equipment effects on the building
 - Sizing of equipment
 - Distribution of air



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Physics of Construction of a Building

Live, Interactive Webinar - Wednesday, August 28, 2024

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



Learning Objectives

You'll be able to:

Comply with appropriate structural codes and understand warranty requirements.

Explore the physics of water and its effects on buildings.

Learn about moisture management systems.

Get tips on designing and constructing footings and foundations.

Discuss above-grade construction, including exterior cladding and roofing systems.

Examine the effects of ventilation and mechanical systems on buildings and their occupants.



HalfMoon Education Inc.,
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Physics of Construction of a Building

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Discuss building codes and warranties

Analyze below-grade material, such as footings and foundations

Explore exterior cladding and roof systems

Consider the effects of indoor air quality and ventilation and **discuss** moisture loads

Learn about mechanical equipment effects on the building and **explore** sizing of equipment

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

Online - Wednesday, August 28, 2024

Log into Webinar

8:00 - 8:30 am CDT

Break

12:15 - 1:15 pm CDT

Morning Session

8:30 am - 12:15 pm CDT

Afternoon Session

1:15 - 4:30 pm CDT

Tuition

\$339 for individual registration.

\$309 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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Faculty

Don Sivigny

Mr. Sivigny has over 32 years of work experience in the enforcement of the Minnesota Building Codes in both rural and metropolitan settings. He has spent many years in the industry as a code official and a construction manager. Mr. Sivigny is known nationally for his work in residential building codes, building durability issues, building science, air quality control, radon, energy and green building issues. He has traveled the country teaching these topics and has often been a featured speaker both locally and nationally on these topics as well.

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. 24GP00049300) 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 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)

Additional Learning

Structural Forensic Engineering of Buildings

- Wednesday, August 7, 2024 | 9:00 am - 4:50 pm CDT

Deep Foundations

- Thursday, August 8, 2024 | 9:00 am - 12:00 pm CDT

Residential Elevators and Lifts

- Monday, August 12, 2024 | 2:00 - 4:00 pm CDT

2024 International Building Code: Code Fundamentals

- Tuesday, August 13, 2024 | 12:00 - 4:30 pm CDT

Tiny House Design and Construction

- Tuesday, August 13, 2024 | 9:00 am - 5:15 pm CDT

Engineering Ethics and Engineering Code of Conduct for Professional Engineers

- Friday, August 16, 2024 | 10:00 am - 12:00 pm CDT

Finance and Engineering Economics for Engineers

- Monday, August 19, 2024 | 10:00 am - 2:30 pm CDT
- Tuesday, August 20, 2024 | 10:00 am - 2:30 pm CDT

Basics of Structural Steel Design and Construction

- Tuesday, August 20, 2024 | 8:30 am - 4:30 pm CDT

Complying with NFPA 101 (2021): Life Safety Code

- Wednesday, August 21, 2024 | 8:30 am - 5:00 pm CDT

Designing and Constructing Net-Zero Energy Homes

- Friday, August 23, 2024 | 8:30 am - 4:00 pm CDT

Improving Interior Air Quality in Residential and Commercial Buildings

- Friday, August 23, 2024 | 12:00 - 2:00 pm CDT

Flood-Resistant Design and Construction

- Monday, August 26, 2024 | 9:00 am - 4:30 pm CDT

2024 International Building Code: Administration and Enforcement

- Tuesday, August 27, 2024 | 12:00 - 4:30 pm CDT

Complying with Commercial Provisions of the 2021 International Energy Conservation Code

- Tuesday, August 27, 2024 | 9:00 am - 4:30 pm CDT

Structural Engineering Calculations for Wood Construction

- Tuesday, August 27, 2024 | 10:00 am - 1:15 pm CDT

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