

Agenda

Presented by Wendy Talarico

Development of the Energy Conservation Code's Commercial Building Requirements

Commercial energy conservation code: what's new
Compliance in other states

Regional requirements and how to meet them

- Comparisons with ASHRAE/IESNA 90.1
- Commercial vs residential: identifying projects to which it applies
- Reviewing the format and organization of the code
- Compliance paths

Building Envelope

Building science principles

Review the difference between the R and U factors

- Vapor barriers, air barriers and thermal boundaries
- Calculating insulation thickness/U factors
- Slab insulation
- Fenestration requirements
- Requirements for doors and entrances

Taking your envelope beyond code—steps for success and staying on budget

COMcheck Introduction

Review functionality on live screen

Heating, Ventilating and Air Conditioning Systems

Requirements for controls

Equipment types and applications

Ventilation standards and options

Understanding tables

Service Water Heating

Considerations including pipe insulation, pool covers and heat traps

Power and Lighting

Lighting controls

Power limitations using whole building or space-by-space method

Case Studies: Planning, Modeling and Verifying Compliance

Additional efficiency package options (AEPOs)

All about the performance path—acceptable software

Exploring energy models

Integrated project delivery

Building toward the next generation energy code

Examining required submittals/procedures

Complying with the Commercial Provisions of the
Energy Conservation Code
Portland, ME - Tuesday, April 10, 2018

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Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Receive an overview of the current commercial energy conservation code and anticipated changes.

Review code requirements related to the building envelope.

Receive practical guidance on heating, ventilating and air conditioning system requirements.

Learn about requirements for power, lighting and service water heating systems.

Use COMcheck or the performance path to determine compliance.

Discuss real-world case studies covering planning, modeling and compliance.



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Discuss the application and enforcement of the energy conservation code

Review code requirements related to the building envelope

Receive practical guidance on heating, ventilating and air conditioning system requirements

Use COMcheck or the performance path to determine compliance

Discuss case studies covering planning, modeling and compliance verification

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 HSW Continuing Ed. Hours

7.0 AIA HSW Learning Units

International Code Council

.7 CEUs (Energy)

Contractors

Non-Credit Continuing Ed.



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



Faculty

Wendy Talarico, LEED AP

Ms. Talarico consults with architects and engineers throughout the Northeast to provide continuing education on a range of subjects from codes to building science. She is an instructor for Urban Green/New York State Energy Research and Development Authority’s “Conquering the Code,” an eight-hour energy code class in New York State. Ms. Talarico was a member of the engineering outreach team for the Brick Industry Association, and she is an award-winning journalist with more than 25 years of experience as a writer and editor for such publications as *Architectural Record* and *This Old House*.

Seminar Information

Hilton Garden Inn Portland Airport

145 Jetport Blvd.
Portland, ME 04102
(207) 828-1117

Registration	Lunch (On your own)
8:00 - 8:30 am	12:15 - 1:15 pm
Morning Session	Afternoon Session
8:30 am - 12:15 pm	1:15 - 5:00 pm

Tuition

\$279 for individual registration

\$259 for three or more simultaneous registrations.

Registration does not include a copy of the Code itself.

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 or the CD/manual package. You may also send another person to take your place.

Additional Learning

Webinar Series

National Electrical Code: A Solar Photovoltaic System Perspective

- **National Electrical Code for Building Professionals, Part I**
Wed., Feb. 21, 2018, 11:00 AM - 2:15 PM CST
- **National Electrical Code for Building Professionals, Part II**
Thurs., Feb. 22, 2018, 11:00 AM - 2:15 PM CST

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., Mar. 7, 2018, 11:00 AM - 2:15 PM CST
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., Mar. 8, 2018, 11:00 AM - 2:15 PM CST

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

Deep Excavations

- **Introduction to Deep Excavations**
Thurs., Mar. 15, 2018, 11:00 AM - 1:00 PM CDT
- **Soil Mechanics, Cantilever Walls and Anchored Sheet Pile Walls**
Thurs., Mar. 15, 2018, 1:30 - 3:00 PM CDT
- **Braced Excavation Design**
Fri., Mar. 16, 2018, 11:00 AM - 12:30 PM CDT
- **ASD and LRFD Design**
Fri., Mar. 16, 2018, 1:00 - 2:30 PM CDT

HEC-RAS

- **Hydraulic Principles and Applications**
Thurs., Mar. 22, 2018, 11:00 AM - 1:00 PM CDT
- **Working with the HEC-RAS User Interface**
Thurs., Mar. 22, 2018, 1:30 - 3:00 PM CDT
- **Water Surface Profiling**
Fri., Mar. 23, 2018, 11:00 AM - 1:00 PM CDT
- **Steady Flow Surface Profile Demonstrations**
Fri., Mar. 23, 2018, 1:30 - 3:30 PM CDT

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states, excluding Florida architects. Educators and courses are not subject to preapproval in Maine.

The American Institute of Architects has approved this event for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is deemed an approved architect continuing education sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

The International Code Council has approved this event for .7 CEUs in the specialty area of Energy.

This seminar offers a non-credit continuing education opportunity to contractors. It is not approved by any state contractor licensing entity.

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.

Can’t Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Complying with the Commercial Provisions of the Energy Conservation Code

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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	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.
() I need special accommodations. Please contact me.	

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____
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