

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
Harrisburg, PA - Wednesday, December 19, 2018

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Learning Objectives

You'll be able to:

Receive an overview of the current commercial provisions of the energy conservation code and discuss 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.



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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*.

Here’s what past attendees had to say about the program and presenter Wendy Talarico:

“Ms. Talarico was well informed and provided examples of things she witnessed.” – *Engineer*

“Good speaker.” – *General Construction Designer*

“Very laid back, easy to ask questions.” – *Mechanical/HVAC Engineer*

Seminar Information

Red Lion Harrisburg Hershey
4751 Lindle Road
Harrisburg, PA 17111
(717) 939-7841

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.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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.



Webinar Series

- Geothermal Heating and Cooling
 - **Thermodynamic Basics of Geothermal Systems**
Thurs., Nov. 1, 2018, 11:00 AM - 12:00 PM CDT
 - **Understanding Earth Loop Systems**
Thurs., Nov. 1, 2018, 12:30 - 2:00 PM CDT
 - **Choosing and Designing Geothermal Systems**
Fri., Nov. 2, 2018, 11:00 AM - 12:00 PM CDT
 - **Evaluating and Maintaining Geothermal Systems**
Fri., Nov. 2, 2018, 12:30 - 2:30 PM CDT
- Shallow Foundation Design and Construction
 - **Evaluating Building Sites**
Wed., Nov. 14, 2018, 11:00 AM - 12:30 PM CST
 - **Shallow Foundation Design**
Wed., Nov. 14, 2018, 1:00 - 2:30 PM CST
 - **Special Considerations in Foundation Design and Construction**
Thurs., Nov. 15, 2018, 11:00 AM - 12:30 PM CST
 - **Soil Improvement and Foundation Diagnosis and Repair**
Thurs., Nov. 15, 2018, 1:00 - 2:30 PM CST

- Cogeneration System Principles and Practice
 - **Understanding the Benefits of Cogeneration**
Thurs., Nov. 8, 2018, 11:00 AM - 12:30 PM CST
 - **Laws, Regulations and Building Codes Impacting Cogeneration**
Thurs., Nov. 8, 2018, 1:00 PM - 2:30 PM CST
 - **Examining Cogeneration Technologies**
Fri., Nov. 9, 2018, 11:00 AM - 12:30 PM CST
 - **Moving to Cogeneration: Analysis, Modeling and Case Studies**
Fri., Nov. 9, 2018, 1:00 - 2:30 PM CST
- Roadway Design
 - **Roadway Design**
Thurs., Nov. 29, 2018, 11:00 AM - 12:30 PM CST
 - **Roadway Design Process**
Thurs., Nov. 29, 2018, 1:00 - 2:00 PM CST
 - **Typical Roadway Sections and Alignment**
Fri., Nov. 30, 2018, 11:00 AM - 1:30 PM CST
 - **Intersections, Drainage and Pedestrian-Bicycle Facilities**
Fri., Nov. 30, 2018, 2:00 - 3:30 PM CST

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 most states, including Pennsylvania. Educators and courses are not subject to pre-approval in Pennsylvania.

The American Institute of Architects has approved this seminar for 7.0 HSW Learning Units. Only full attendance can be reported to the AIA/CES.

Engineers and architects seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility.

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

This course offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing entity for mandatory continuing education credit.

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
Harrisburg, PA - Wednesday, December 19, 2018

How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
		Company/Firm: _____	
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Phone: 715-835-5900		Occupation: _____	
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		Occupation: _____	
		Email: _____	
		Phone: _____	
		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*

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