

Agenda

Presented by Lawrence Lile

2018 International Energy Conservation Code

Brief history of the IECC	Identifying which local code applies
ASHRAE 90.1	Does the IECC apply to my project?
Major changes in the Commercial IECC	
How the IECC is organized	Performance-based compliance

Building Envelope

Review the difference between the R and U factors	
Basic insulation requirements vs. real-world problems	
Weather-resistant barriers	Vapor retarders vs vapor barriers
Slab and basement insulation strategies	
Advanced framing	Fenestration
Vestibules	

Weather Resistant Barriers

Thermal boundaries

Openings and Alternative Methods

Slab Insulation	Doors and entrances
Advanced framing	Simplified compliance guide
Roof requirements	Heating, ventilation and air conditioning
Fenestration requirements	

Code Analysis of a Hypothetical Building—A Creative Example

Project parameters	Additional efficiency packages
Envelope parameters	Mechanical parameters
Interior lighting parameters	Exterior lighting parameters
Other considerations	Did we pass? Why or why not?

Heating, Ventilating and Air Conditioning Systems

Residential vs. commercial – and when you have a choice	
Simplified approach – when this will save you time	
Solar ready provisions	What are SEER, HSPF, and AFUE?
Controls requirements	Ventilation standards

Service Water Heating

Consideration including pipe insulation, pool covers and heat traps

Power and Lighting, Additional Efficiency, Commissioning

Lighting controls	Daylighting
Power limitations using whole building or space-by-space method	

Additional Efficiency Packages, Commissioning, Existing Buildings

Additional efficiency packages	Commissioning
Existing buildings	

Case Studies: Planning, Modeling and Verifying Compliance

The north light building	Questions
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Complying with the Commercial Provisions of the 2018 IECC

Overland Park, KS - Tuesday, April 28, 2020



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

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Learning Objectives

You'll be able to:

Identify major changes that have been made to the International Energy Conservation Code (IECC) from the 2012 version to the 2018 version.

Comply with provisions of the 2018 IECC for weather-resistant barriers, doors and entrances, roofs, slab insulation and fenestration.

Comply with 2018 IECC provisions for HVAC controls, refrigeration, service water heating, pools, power and lighting.

Comply with 2018 IECC provisions on interior lighting, exterior lighting and lighting controls.

Participate in a code analysis of a hypothetical building, applying code provisions to the fact scenario to obtain code compliance.



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Complying with the Commercial Provisions of the 2018 IECC

Overland Park, KS - Tuesday, April 28, 2020



Learn major changes in the 2018 IECC from 2012 to 2018

Understand energy efficiency requirements for walls, roofs, windows and doors.

Explore performance-based compliance

Comply with requirements for HVAC power and lighting systems

Participate in a code analysis of a hypothetical building to determine compliance

Continuing Education Credits

Professional Engineers

6.5 PDHs (HSW)

International Code Council

.65 CEUs (Energy)

Architects

6.5 HSW PDHs/CE Hours
6.5 AIA LU|HSW

Contractors

Non-Credit Continuing Ed.



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Lawrence Lile *Owner of Lile Engineering in Ashland, MO*

Mr. Lile is the owner of Lile Engineering, which specializes in commercial energy solutions and LEED certification consulting. Mr. Lile has worked in the design industry for over 30 years, on healthcare, industrial, commercial and educational construction projects. He has been involved in electrical and mechanical design, as well as construction management and commissioning. He has volunteered for local city boards and commissions, including the City of Columbia Energy and Environment Commission, which he chaired from 2009 – 2015, helping the city review and adopt new building codes. Mr. Lile is a licensed professional engineer in Missouri.

Here’s what past attendees had to say about the program and presenter Lawrence Lile:

“Good seminar.” – *Architect-Engineer/Building Official*

“Incorporated “hands-on” activity and COMCheck analysis. Great addition to learning experience.” – *Code Official*

“Good review.” – *Engineer*

Seminar Information

Webinar Instructions will be emailed before the date of the webinar.

Log into Webinar:	Break:
8:00 - 8:30 am	12:30 - 1:30 pm
Morning Session:	Afternoon Session:
8:30 am - 12:30 pm	1:30 - 4:30 pm

Tuition

\$299 for individual registration

\$279 for three or more simultaneous registrations.

Included with your registration: *Complimentary continental breakfast and printed seminar manual. Registration does not include a copy of the Code itself.*

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 self-study package. You may also send another person to take your place.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$279. See registration panel 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.

Additional Learning

Webinar Series

Distributed Batteries for Solar PV Systems

- **Distributed Batteries for Solar PV Systems, Part I**
Thurs., April 2, 2020, 11:00 AM - 2:15 PM CDT
- **Distributed Batteries for Solar PV Systems, Part II**
Fri., April 3, 2020, 11:00 AM - 2:15 PM CDT

Compliance with the 2018 International Building Code

- **Compliance with the 2018 International Building Code, Part I**
Wed., April 8, 2020, 11:00 AM - 1:00 PM CDT
- **Compliance with the 2018 International Building Code, Part II**
Wed., April 8, 2020, 1:30 - 3:30 PM CDT
- **Compliance with the 2018 International Building Code, Part III**
Thurs., April 9, 2020, 11:00 AM - 12:30 PM CDT

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

Tree Science

- **Biology and Benefits of Trees**
Wed., April 15, 2020, 11:00 AM - 1:00 PM CDT
- **Tree Infrastructure: Design Elements That Appreciate**
Wed., April 15, 2020, 1:30 - 3:00 PM CDT
- **Trees and Site Requirements**
Thurs., April 16, 2020, 11:00 AM - 12:00 PM CDT
- **Project Completion and Tree Threat Prevention**
Thurs., April 16, 2020, 12:30 - 2:30 PM CDT

Structural Forensic Engineering

- **Overview of the Role of Forensic Engineering**
Thurs., April 16, 2020, 11:00 AM - 12:30 PM CDT
- **Forensic Engineering Process and Forensic Engineering Report**
Thurs., April 16, 2020, 1:00 - 3:00 PM CDT
- **Causes of Structural Failures**
Fri., April 17, 2020, 11:00 AM - 12:30 PM CDT
- **Forensic Examination of Structures and Use in Litigation**
Fri., April 17, 2020, 1:00 - 3:00 PM CDT

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 HSW PDHs to Kansas professional engineers and architects. It will qualify for continuing education credit in all states. Educators and courses are not subject to preapproval in Kansas.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing. Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

The International Code Council has approved this activity for .65 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

This seminar provides a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing board for mandated 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.

Registration

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How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	Code:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ 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 - \$299.00 . Three or more registrants from the same company registering at the same time - \$279.00 each.	
() I am not attending. Please send me the self-study package: ☐ Downloadable MP3 Audio/PDF Manual for \$279.00 . ☐ CD/Manual Package for \$299.00 . ☐ USB/Manual Package \$299.00 . (S&H included. Please allow five weeks from seminar date for delivery)	
Checks: Make payable to HalfMoon Education Inc.	
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>	
Credit Card Number: _____	
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City: _____ State: _____ Zip: _____	
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