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.

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

Continuing Education Credits

Professional Engineers
6.5 PDHs (HSW)

Architects
6.5 HSW PDHs/CE Hours 6.5 AIA LU|HSW

Contractors
Non-Credit Continuing Ed.

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
Faculty

Lawrence Lile  Owner of Life Engineering in Ashland, MO

Mr. Lile is the owner of Life 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

“Great presentation.” – Building Official

“Comprehensive and hands-on.” – Construction Manager

“Great addition to learning experience.” – Architect

“Good seminar.” – Engineer

Additional Learning

Webinar Series

Distributed Batteries for Solar PV Systems

- Distributed Batteries for Solar PV Systems, Part I
  Thrus., April 2, 2020, 11:00 AM - 1:00 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 - 12:50 PM CDT

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

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 HU (30% of credits). 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. 24GP0000700), 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 6.5 CEUs in the specialty area of Energy (Preferred Provider No. 1212).

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.

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. 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.