

Agenda

Presented by Lawrence Life

Development of the IECC's Residential Building Requirements

International residential energy conservation code and state adoption
ASHRAE/IESNA 90.1
Identifying projects to which it applies
Reviewing the format and organization of the code
Examining required submittals/procedures
Exploring energy models
Building toward the next generation energy code

Compliance Verification and REScheck Introduction

Review REScheck functionality on live screen
Overview of menus, toolbars and fields
Review the most frequent REScheck submittal mistakes
Prescriptive path alternative to verifying compliance

Building Envelope

Review the difference between the R and U factors
Weather-resistive barriers
Vapor barriers, air barriers and thermal boundaries
Examples of calculating insulation thickness/U factors
Slab insulation
Advanced framing methods
Fenestration requirements—National Fenestration Rating Council labels
Requirements for doors and entrances
Insulation requirements
Basement insulation strategies
Exterior foam

Heating, Ventilating and Air Conditioning Systems

The simplified approach and when it can save you a lot of work
Requirements for controls
Equipment types and applications
Ventilation standards and options
When you can and cannot dehumidify

Service Water Heating

Considerations including pipe insulation, pool covers and heat traps

Power and Lighting

Lighting controls
Pools and spas
Power limitations using whole building or space-by-space method

Case Studies: Planning, Modeling and Verifying Compliance

Complying with the Residential Provisions of the
International Energy Conservation Code (IECC)
St. Louis, MO - Tuesday, June 5, 2018

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PO Box 278
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Learning Objectives

You'll be able to:

Discuss the development of the International Energy Conservation Code and its adoption in Kentucky.

Review underlying standards from ASHRAE/IESNA 90.1.

Verify compliance with REScheck or a prescriptive path alternative.

Maximize energy conservation with vapor barriers, air barriers and thermal boundaries.

Get tips on efficient HVAC systems and controls.

Review requirements for efficient lighting controls.



Complying with the Residential Provisions of the International Energy Conservation Code (IECC)

St. Louis, MO - Tuesday, June 5, 2018



Understand the development of the IECC's residential building requirements

Explore REScheck functionality on live screen

Consider the prescriptive path alternative to verifying compliance

Continuing Education Credits

Architects

6.5 HSW CEUs/CE Hours
6.5 AIA HSW Learning Units

Professional Engineers

6.5 PDHs

Review the difference between R and U factors

Examine heating, ventilating and air conditioning systems

Discuss service water heating, power and lighting

International Code Council

.65 CEUs (Energy)

Contractors

Non-Credit Continuing Ed.



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Faculty

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. Much of the work Mr. Lile has done over his 30 year career in engineering has focused on energy conservation. He has completed a number of level II commercial energy audits, has assisted solar installers with permit drawings and engineering calculations, and has worked with energy modeling and energy conservation measures on LEED projects. His experience includes healthcare, industrial, commercial and educational projects, as well as some residential solar projects. He is a Licensed professional engineer in Missouri and Illinois.

Seminar Information

Holiday Inn Forest Park 5915 Wilson Avenue St. Louis, MO 63110 (314) 645-0700	Registration 8:00 - 8:30 am Morning Session 8:30 - 11:45 am	Lunch (On your own) 11:45 am - 12:45 pm Afternoon Session 12:45 - 4:30 pm
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Tuition

\$279 for individual registration

\$259 for three or more simultaneous registrations.

Each registration includes a 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 a job description, go online to 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.

Additional Learning

Webinar Series

Community Solar and Rooftop Solar

- **Community Solar**
Wed., May 2, 2018, 11:00 AM - 2:15 PM CDT
- **Design Your Solar Roof**
Thurs., May 3, 2018, 11:00 AM - 2:15 PM CDT

Complying with Fire and Building Codes

- **Introduction to Fire Protection and Life Safety Design**
Thurs., May 3, 2018, 11:00 AM - 12:30 PM CDT
- **Occupancy Classifications**
Thurs., May 3, 2018, 1:00 - 2:30 PM CDT
- **Means of Egress**
Fri., May 4., 2018, 11:00 AM - 1:00 PM CDT
- **Fire Protection Features and Occupancy Exercises**
Fri., May 4, 2018, 1:30 PM - 3:30 PM CDT

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

Pavement Design

- **Principles of Pavement Design**
Thurs., May 10, 2018, 11:00 AM - 12:30 PM CDT
- **Flexible Pavement Design**
Thurs., May 10, 2018, 1:00 - 2:30 PM CDT
- **Rigid Pavement Design**
Fri., May 11, 2018, 11:00 AM - 12:30 PM CDT
- **Pavement Drainage and Maintenance**
Fri., May 11, 2018, 1:00 PM - 2:30 PM CDT

Proposal Writing

- Tues., May 22, 2018, 11:00 AM - 3:30 PM CDT

Soil Engineering

- **Introduction to Soil Engineering**
Wed., May 30, 2018, 11:00 AM - 12:30 PM CDT
- **Design of Excavation Support Systems**
Wed., May 30, 2018, 1:00 - 2:30 PM CDT
- **Slope Repair Techniques**
Thurs., May 31, 2018, 11:00 AM - 12:30 PM CDT
- **Practical Approaches to Foundations and Retaining Structures**
Thurs., May 31, 2018, 1:00 - 2:30 PM CDT

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 HSW CEUs/continuing education hours to architects and 6.5 PDHs to engineers in all states, except Florida architects. Educators and courses are not subject to preapproval in Missouri.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Provider No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is deemed an approved continuing education sponsor for New York architects. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, 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 .65 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 state 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 Residential Provisions of the International Energy Conservation Code (IECC)

St. Louis, MO - Tuesday, June 5, 2018

How to Register	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.
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	

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: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____