

Agenda

Presented by Arthur “Art” Pakatar, LEED Green Associate, CEA

General Administration of the Code

- Development and adoption of International Energy Conservation Code (2021)
- Identifying projects to which the residential provisions of the energy code apply
- Reviewing the format and organization of the code
- Examining required submittals/procedures
- Exploring energy models
- Building toward the next generation energy code

Residential Chapters 2-3

- DefinitionsClimate zones
- Materials, systems and equipment

Code Compliance Alternatives

- Choosing a compliance method
 - Performance-based compliance
 - UA tradeoff
 - Simulated performance method
 - Energy rating index compliance alternative

Residential Energy Efficiency

- Building thermal envelope
 - Insulation requirementsFenestration requirements
 - R-values and U-factor alternatives
- Prescriptive insulation:
 - Ceilings, access doorsMass walls, basement walls, sunrooms
 - Slab-on-grade floors
- Prescriptive fenestration:
 - Air leakage and testing
- Fireplaces and fuel-burning appliances
- Energy modeling

Heating and Cooling System and Power Systems

- Control systemsDuctwork insulation and sealing
- Service hot water systemsMechanical ventilation systems
- Pools and spasPower systems and electrical systems

Existing Buildings

- Building additionsMaking building alterations
- Building repairs and maintenanceChange of occupancy



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Complying with the 2024 Vermont
Residential Building Energy Standards (RBES)
Live, Interactive Webinar - Thursday, October 31, 2024

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Learning Objectives

You’ll be able to:

Discuss the adoption of the international Energy Conservation Code in Vermont.

Explore required permits and procedures.

Evaluate code compliance alternatives, including performance-based compliance and energy rating index compliance.

Meet requirements for building envelopes, insulation and fenestration.

Examine code requirements for heating, cooling and power systems.

Consider energy efficiency when making additions or alterations to existing homes.



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Live, Interactive Webinar - Thursday, October 31, 2024



Discuss the adoption of the International Energy Conservation Code in Vermont

Discuss climate zones and code terminology

Explore compliance methods

Meet code requirements for building envelopes, insulation and fenestration

Comply with requirements for heating, cooling and power systems

Identify energy efficiency requirements for existing homes

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International Code Council
.6 CEUs (Energy)

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Webinar Information

Online - Thursday, October 31, 2024

Log into Webinar

8:00 - 8:30 am EDT

Break

12:30 - 1:00 pm EDT

Morning Session

8:30 am - 12:30 pm EDT

Afternoon Session

1:00 - 3:30 pm EDT

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Faculty

Arthur "Art" Pakatar, LEED Green Associate, CEA *The Pakatar Group*

Mr. Pakatar is the principal of The Pakatar Group, a firm dedicated to the built environment. He is an industry veteran with several years of experience teaching home performance and construction-related topics. Mr. Pakatar holds certifications from the International Code Council, the Association of Energy Engineers, the Building Performance Institute, the U.S. Green Building Council and RESNET. He is a certified code enforcement officer in New York State and holds the energy code inspector and plans examiner credentials with ICC. Over the past 10 years Mr. Pakatar has prepared and delivered training to code enforcement officers, design professionals and other construction industry stakeholders throughout the Northeast and Mid-Atlantic regions. He has taught throughout the United States. Having participated in creating protocols on several pertinent topics, Mr. Pakatar is considered a subject matter expert on those topics.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in Vermont. This course may qualify for credit in additional jurisdictions; please refer to specific licensing rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
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Additional Learning

Designing in Accordance with ACI 318-19 (22): Building Code Requirements for Structural Concrete

- Monday, October 7, 2024 | 11:00 am - 2:15 pm EDT

Designing and Constructing Reinforced Concrete Retaining Walls

- Monday, October 7, 2024 | 3:00 - 6:15 pm EDT

2024 International Building Code: Special Uses and Mixed Uses

- Tuesday, October 8, 2024 | 1:00 - 5:30 pm EDT

Air-Source Heat Pumps for Residential and Small Commercial Buildings

- Tuesday, October 8, 2024 | 10:00 am - 5:50 pm EDT

Deep Dive into Energy Benchmarking Building Performance Standards

- Tuesday, October 8, 2024 | 12:30 - 5:00 pm EDT

Energy Benchmarking and Why It Is Important

- Tuesday, October 8, 2024 | 10:00 am - 12:00 pm EDT

Handling Ethical Issues in Construction Management

- Tuesday, October 8, 2024 | 11:00 am - 12:00 pm EDT

Healthy Buildings

- Tuesday, October 8, 2024 | 2:00 - 4:00 pm EDT

Natural Fiber Insulation

- Wednesday, October 9, 2024 | 11:00 am - 1:00 pm EDT

Modular Construction and Prefabricated Components: Residential, Multi-Family and Commercial Buildings

- Wednesday, October 9, 2024 | 10:00 am - 4:50 pm EDT

Masonry Veneer Design & Construction

- Thursday, October 10, 2024 | 9:30 am - 5:00 pm EDT

Special Inspections Under Chapter 17 of the International Building Code

- Thursday, October 10, 2024 | 10:00 am - 6:00 pm EDT

Construction Contracting

- Tuesday, October 15, 2024 | 10:00 am - 6:00 pm EDT

2024 International Building Code: Fire Protection

- Tuesday, October 22, 2024 | 1:00 - 5:30 pm EDT

Construction Manager at Risk (CMAR) Project Management System

- Tuesday, October 22, 2024 | 10:00 am - 5:00 pm EDT

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