

Energy Code Intro (1 hr)

Ohio & Kentucky

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1.0 continuing education hours for engineers, contractors, designers and energy professionals

Course Description

Engineers, designers, technicians, contractors, consultants, building or equipment operators, and sometimes even owners who are responsible for new commercial or residential structures, additions and major upgrades requiring permits in Ohio and Kentucky are required to comply with the International Energy Conservation Code (IECC). The current code in 2014 is the 2009 IECC. It includes references to and in some applications allows alternative energy code compliance for commercial projects via the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1-2007. These 2 code documents include many mandates affecting electrical and thermal efficiencies as well as specific instructions about how to correctly size and/or limit capacities, especially for lighting power and HVAC equipment capacities.

This course introduces the overall scopes and major differences in the 2 documents, including how each document is formatted and outlined differently. The documents' covers and contents pages are examined and discussed, especially how the coverage is divided between chapters and sections with very different numbering in the 2 documents. Websites are presented where each document can be viewed, downloaded or purchased. A map showing the code's climate zones is explained, since climatic severity affects many thermal efficiency requirements and one major dividing line between 2 climate zones occurs inside the Greater Cincinnati area. Tables are presented showing many of the major efficiency spec differences between the 2 climate zones. Preliminary sections in the code's major chapters are also presented which explain when energy code compliance is required and when it is not, like some replacements and repairs.

Learning Objectives

- Become familiar with the IECC 2009 and the ASHRAE Standard 90.1-2007, the 2 documents currently used for energy code compliance in Ohio and Kentucky.
- Understand when compliance with the energy code is required, also when compliance is not required
- Learn how the 2 documents are formatted and outlined differently, with chapters and subsections numbered and ordered differently.
- Understand the climate zones which affect thermal efficiency requirements. Become aware that a climate zone dividing line occurs in the Greater Cincinnati area, causing requirements to be different in some local areas than others.

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