



One- and Two-Family Dwelling Electrical Systems - Part I (4 CE hours) Course Syllabus

Provider / Sponsor Information

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Instructor Information

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Note: Direct instructor contact is available via the "Ask the Instructor" link on the top left of the course player.

Course Description

This 4-hour course is based on IAEI's One- and Two-Family Dwelling Electrical Systems book, and the requirements contained in the NEC and the IRC. Electrical systems, equipment or components that are not specifically covered in Chapters 34 through 43 of the IRC are required to comply with the applicable provisions of the National Electrical Code, NFPA 70 (see IRC E3401.2). This program focuses on the requirements for electrical installations based on the electrical code and includes information relative to making proper electrical installations and inspections of residential wiring systems. Part I covers Chapters 1 through 8.

Course Performance Objectives

Upon successful completion of this course, the participant will be able to:

- Describe general requirements including ampacity and derating
- Explain definitions and perform electrical calculations including ampacity, load, circuits and grounded (neutral) service conductors
- Understand installations of services including definitions, clearances, service disconnects and permitted uses

- Discuss grounding and bonding requirements as well as cabinets and enclosures
- Identify requirements for feeders and personnel protection
- Locate power and lighting distribution requirements