

NATIONAL ELECTRICAL CODE – 2005 UPDATE

This 2-day program is designed to provide a complete overview of the general chapters in the National Electrical Code® including the most pertinent 2005 changes. Participants will learn how to effectively use the 2005 NEC® in applying it to their every day jobs. This seminar is geared specifically for personnel in large buildings, facilities, and industrial settings. Selection of conductors and overcurrent devices will be discussed, as well as wiring methods, wiring materials, grounding & bonding, plus so much more.

PROGRAM BENEFITS:

- Learn the major changes in the 2005 NEC
- Learn how to use and quickly find answers in the NEC
- Discover how the Code will actually help you to work more efficiently and cost effectively.
- Learn the requirements to ensure safe electrical installations.
- Be able to spot electrical hazards and avoid accidents before they happen.

Chapters 1-4 of 2005 NEC

with emphasis on pertinent changes, which may include the following and much more:

Article 100 Definitions

- Changes in the definition of Bonding Jumper, Grounding Electrode Conductors and Effectively Grounded.
- The addition of a FPN to help clarify a Qualified Person.

Article 110 Requirements for Electrical Installations

- More restrictive requirement for Flash Protection, which will coordinate with NFPA 70E.

Article 200 Use and Identification of Grounded Conductors

- Clarification on Grounded Conductor identification.

Article 210 Branch-Circuits

- New GFCI requirements for outdoor receptacles in public places.
- Changes in AFCI requirements.

Article 220 Branch-Circuit, Feeder, and Service Calculations

- Restructuring of this article to make it user-friendlier.

Article 225 Outside Branch-Circuits and Feeders

- Clarity on permitted location of Disconnecting Means.

Article 240 Overcurrent Protection

- Additional restriction to selection of next higher OC device to protect conductors.

Article 250 Grounding

- Changes of grounding requirements versus bonding requirements.

Article 310 Conductors for General Wiring

- Changes in ampacity adjustment factors.

Article 430 Motors

- The addition of a new Part and new requirements for "Adjustable Speed Drives."
- Change in language for location of the motor disc

Prerequisite: None

Standard Class Size: Up to 15

Program Length: 14 hours