

# NATIONAL ELECTRICAL CODE (NEC)

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**COURSE:** Electrical grounding practices

**DESCRIPTION:** This course covers grounding practices from article 250 of the National Electrical Code (NEC), plus grounding requirements and techniques from other parts of the code.

Because of the many interlocking parts of a grounding system, one code rule may apply to more than one conductor that is part of a grounding system. In such cases, the rule is only stated once in the code, and from then on a reference is made to that part of the code. This happens most often where there is a special installation, such as a separately derived system or a feeder to a separate building.

This course takes a close look at each of the different conductors used in the grounding system individually and eliminates referencing by repeating the rule applicable to the conductor in question. After each conductor has been looked at individually, the different installations will be individually covered.

**DURATION:** 16 Hours

**FORMAT:** Power Point Presentation

**AUDIENCE:** Master and Journeyman electricians, electrical contractors, registered code officials, electrical inspectors, engineers, and any other person involved in the installation of electrical equipment.

**OBJECTIVE:** Article 250 has sections that apply to more than one of the overall system grounding conductors. In this course, each of these conductors is looked at individually and information concerning the type, use, purpose, installation, and size is gathered into one chapter devoted to that particular conductor.

**TOPICS:**

- Applicable NFPA 70 grounding requirements
- Article 250 - Grounding
- Grounding theory
- Safety associated with grounding systems
- Fault protection
- Grounding electrode system and conductors
- Grounding conductors
- Bonding
- Equipment grounding
- Enclosure bonding and grounding
- Ground fault protective equipment
- Grounded circuit conductor for equipment