Course Description Sheet

COURSE TITLE
2026 NEC Changes: Overcurrent Protection, Overvoltage Protection, and Grounding and Bonding

COURSE DURATION
1 Hour(s)

OVERVIEW
This course provides a focused review of the 2026 NEC changes related to overcurrent protection, overvoltage protection, and grounding and bonding. It examines the types of overcurrent protective devices recognized by the Code, clarifies where such devices are permitted, and explains key concepts such as trip-free circuit breaker operation.

The course also addresses surge protective device placement, including where Type 1 SPDs are allowed, and outlines listing requirements for medium-voltage overcurrent protective devices. Grounding and bonding updates are explored in detail, including the scope and voltage parameters of Articles 250 and 270, core grounding principles, approved termination methods, and supply-side bonding jumper requirements for generators.

Additional discussion includes proper ground rod installation sequence, permitted splicing methods for grounding electrode conductors, requirements for nonmetallic boxes used with metal wiring methods, and sizing equipment grounding conductors in parallel installations. This course equips learners with a clear understanding of the updated provisions necessary to design and install safe, code-compliant electrical systems under the 2026 NEC.

PREREQUISITES
No prior knowledge is required.

BEHAVIORAL OBJECTIVES
After successfully completing this course, you will be able to:

- List the types of overcurrent protective devices the NEC recognizes
- Explain when an overcurrent protective device is allowed in a bathroom
- Describe what “trip-free” means in the context of circuit breakers
- Recall where a Type 1 surge protective device is allowed
- Explain when the listing requirements for medium voltage overcurrent protective devices apply
- Detail the voltage parameters of Articles 250 and 270
- List the fundamental requirements of Article 250
- Discuss the allowable methods for grounding and bonding terminations
- List the types of supply-side bonding jumpers allowed for generators
- Describe the required sequence for driving a ground rod
- List the permitted splicing methods for grounding electrode conductors
- Describe the rules for nonmetallic boxes used with metal wiring methods
- Recall how to size equipment grounding conductors in parallel

COURSE OUTLINE

Chapter	Minutes
Introduction	2
Overcurrent Protection	11
Article 242 Overvoltage Protection	2
Article 245 Overcurrent Protection for Systems Exceeding 1,000V AC or 1,500V DC	4
Article 250: Grounding and Bonding	31
Conclusion	2
Course Total	52
+ Study Exercises (TS)/Checkpoints (RV) (10% Course Total)	**5**
= Grand Total	**57**

AVAILABILITY

This course is offered online and is available 24 hours a day, 7 days a week, 365 days a year.

TRAINING METHODOLOGY & EVALUATION

This course is self-paced online training. Review exercises reinforce the content, and students are evaluated with a multiple-choice exam. Upon completion, students are prompted to submit a course evaluation.

REFERENCES

2026 NEC Code Book