

Corporate Office

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AC Power and NEC Codes

Course Description: This course covers the fundamentals of electrical power and theory. The course starts off with safety, safe operation standards and introducing NEC and NEMA standards. Different types of transformers, circuit breakers, wiring materials, test equipment, schematic symbols, and grounding / bonding techniques are reviewed.

Prerequisites: None

Textbook: CFC-Solar Binder

Learning Objectives:

- Review of electrical theory
- Electrical power fundamentals
 - 3-phase power distribution transformers
 - Control voltage transformers
 - Power fuses and circuit breakers
 - Wiring materials
- Power equipment schematic symbols
- Test equipment and proper use
- Grounding and bonding techniques
- Safety and safe operation standards
 - Understanding the NEC Standards
 - NEMA Standards