

# Electrical Wiring Advanced

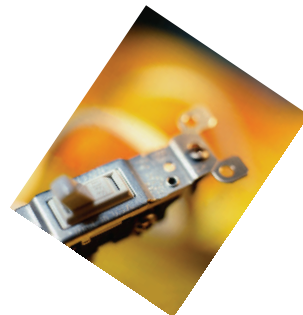
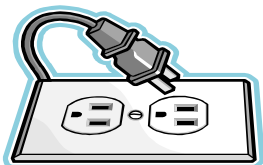
This advanced course will provide you with a solid background of basic and advanced electrical principles and practices, as well as a thorough understanding of the National Electrical Code® .

This course will contain the following:

1. Electrical Circuits
2. Transformers
3. Motors
4. Services
5. Conduit Fill
6. Box Fill
7. National Electric Code



- Section 1. Electrical Circuits
- A. Single Phase Circuits
  - B. Three Phase Circuits
  - C. Applications
  - D. Color Coding Conductors
  - E. Formulas and Calculations



Section 2. Transformers:

- A. Three Phase Transformers
- B. Single Phase Transformers
- C. Applications
- D. Formulas and Calculations



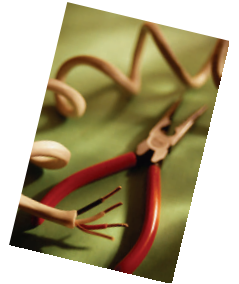
Section 3. Motors:

- A. Application
- B. Controls
- C. Three Phase Motors
- D. Single Phase Motors
- E. Formulas and Calculations



Section 4. Service:

- A. Single Family Load Calculations
- B. Installation
- C. Clearance
- D. Grounding
- E. Bonding



Section 5. Conduit Fill

- A. Conductors
- B. Formulas and Calculations

Section 6. Box/Fill

- A. Device and Conductors per box
- B. Formulas and Calculations



Section 7. NEC

- A. Understanding the NEC

