

Corporate Office

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AC and DC Fundamentals Including Safety

Course Description: This course covers the fundamentals and principles of AC and DC electric. Electrical safety procedures, lock out/tag out, and OSHA compliance are reviewed. The operation and use of measuring devices, relay contacts, and input / output devices are then covered.

Prerequisites: None

Textbook: CFC-Solar Binder and AC / DC Fundamentals

Learning Objectives:

- Review Electrical safety
- Lock out / tag out procedures and why they are used
- Know what the most common OSHA violations are
- Review of Electrical fundamentals and symbols
- Work with power formulas
- Know what voltmeters, amp meters and mega-ohm-meters are used for
- Explain what voltage and current are
- Findings of parallel and series resistance and capacitance
- Find difference of normally open and normally closed relay contacts
- Explain differences in limit, proximity, and photo switches
- Review of 3 different output devices including valves, motors, and fans