

Corporate Office

7042 Fairfield Business Dr.
Fairfield, OH 45014-5480
(513) 874-3225
(513) 874-3229 Fax



Electrical Maintenance, Schematics & Troubleshooting Including Motors and Motor Control Circuits

Course Description: This course first takes a comprehensive look at electric motors including operating principles. Topics include starting, braking and speed control, plus motor mechanics for single-phase, direct current, and three phase motors. Motor nameplate data, selection, protection, failure analysis, and troubleshooting will be addressed for all types of motors. This course also covers the latest motor control technology, as well as legacy systems often still found in today's factories. Topics include contactors and motor starters, reversing motor circuits, sensing devices and controls, relays and solid state starters, reduced voltage starting and other general control devices.

Prerequisites:

Textbooks: Electrical Principles and Practices and Troubleshooting Electrical Systems.

Learning Objectives:

- Electric Motors
- Single-Phase Motors
- Direct Current Motors
- Three-Phase Motors
- Discuss Motor Nameplate Data and it's use
- Review guideline for proper motor selection
- Motor Protection
- Motor Failure analysis
- Troubleshooting Motors
- Push buttons and switches (selector, limit, prox, pressure, float, temp)
- Relays