

Corporate Office

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Troubleshooting Electrical Systems

Course Description: This course covers the knowledge and step by step methodology to enable one to troubleshoot electrical systems. Fundamentals of basic electrical theory along with understanding symbols and circuits first set a foundation for the beginning of the course. Meters and their use are covered next with lots of hands-on work. The use of measurement devices combined with knowledge of circuits then becomes the focus of the course as this knowledge is used to understand and troubleshoot relays and motors, power distribution and quality, motor controls, electric motor drives, and more.

Prerequisites:

Textbook: Troubleshooting Electrical/Electronic Systems

Learning Objectives:

- Electrical safety
- Troubleshooting
- Basic electrical theory
- Symbols and circuits
- Meters
- Special meters
- Basic circuit measurements
- Relays and motor starters
- Troubleshooting relays and starters
- Motor electrical problems
- Motor mechanical problems
- Troubleshooting DC motors
- Troubleshooting AC motors
- Power distribution
- Troubleshooting power quality
- Troubleshooting motor control circuits
- Electric motor drives
- Troubleshooting electric motor drives
- Programmable controllers