

Electrical Troubleshooting Motor Controls



A DIVISION OF ECPI UNIVERSITY

This is a basic course, without any prerequisites, that helps you develop a solid foundation to build your troubleshooting knowledge and skills. You will learn techniques that will help locate faults quickly.

Learn basic troubleshooting techniques in a logical sequence to cover all the standard control circuits. Gain practical, useful techniques that can be put into immediate use.

This program is ideal for apprentice electricians just starting out, journeymen wishing to upgrade their skills, or any engineering, maintenance, operations, or management personnel who come into contact with electrical control systems in the course of their daily activity.

WHAT THIS COURSE COVERS

- Practical, Useful Troubleshooting Techniques that can be put into Immediate Use
- Methods to Simply and Quickly Locate Faults
- Eliminate Guesswork about Circuit Conditions
- Common Circuits for Controlling Pumps, Air Compressors, Hydraulic Systems, Heating and Air Conditioning and Others
- How to Wire, Operate, and Troubleshoot Circuits
- Basic Troubleshooting Techniques in a Logical Sequence to Cover all the Standard Control Circuits

COURSE OUTCOMES

- Understand Electricity Concepts Like Voltage, Current, Wiring, Switches, and Circuits.
- Learn how Electricity Applies to Transformers, Motors and Common Electrical Devices.
- Safely Perform Electrical Wiring, Troubleshooting, and Repairs.

WHO SHOULD TAKE THIS

- Maintenance Technicians
- HVAC Maintenance and Repair Technicians
- Fire Alarm Technicians
- Electricians
- Plant and Facility Maintenance Technicians
- Building Engineers
- Safety Directors
- Multi-Craft Personnel
- IT Technicians
- Anyone Who Needs Cross-Training on Electricity

COURSE AGENDA

- Electrical Schematics
- Ladder Diagrams
- Logical Circuits
- Basic Electrical Principles
- Transformers
- Disconnecting Devices and Symbology
- Control Elements, Switches and Symbology
- Supplementary Contact Symbols and Terms
- Manual Switches
- Automatic Switches
- Troubleshooting Suggestions
- Application Specific Circuits
- Ground Fault and Overload Protection



Lecture



Hands-on



ONSITE: 2-days (16 hours)



LIVE ONLINE: N/A



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