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Course Name

Advanced Electrical Troubleshooting, Repair and Isolation Techniques

Sector Name

Electrical Engineering

Document Type

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Advanced Electrical Troubleshooting, Repair and Isolation Techniques

Course Introduction

This training emphasizes the importance of working safely and of measuring your skills based on time and materials standards to save you and your employer money on troubleshooting projects.

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Advanced Electrical Troubleshooting, Repair and Isolation Techniques

Target Audience

- ✓ Electrical Engineer
- ✓ Electrical Project Engineer
- ✓ Electronics-research engineer
- ✓ Instrumentation and Electrical (I&E) Reliability Engineer

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Advanced Electrical Troubleshooting, Repair and Isolation Techniques

Learning Objectives

- ✓ Gain a comprehensive understanding of the basic principles of a typical process sensor
- ✓ Enhance troubleshooting skills for 3-phase AC facilities and equipment
- ✓ Review, measure, and test electrical parameters
- ✓ Identify mechanical faults associated with process facilities and equipment

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Advanced Electrical Troubleshooting, Repair and Isolation Techniques

Course Outline

✓ DAY 01

Review of basic electrical troubleshooting

- ✓ Introduction to advanced troubleshooting
- ✓ Principles of Typical process equipment and facilities
- ✓ Pump, Agitator, Heaters
- ✓ Motors, Transformers
- ✓ Contactors, Overloads

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Course Outline

✓ Day 02

Instrument testing and measurement of electrical parameters

- ✓ Operate the system remotely or locally
- ✓ Take Voltage, Resistance, and Current
- ✓ Measurements with a multimeter

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Course Outline

✓ Day 03

Instrument testing and measurement of electrical parameters

- ✓ Inspect, Repair, and Replace components
- ✓ Disconnect and ring out wires.

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Course Outline

✓ Day 04

Principles of input transducers and sensors

- ✓ Temperature, Float, & Selector Switches
- ✓ Relays, Timers, Pushbuttons
- ✓ Solenoid Valves, Fuses, Indicators

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Course Outline

✓ Day 05

Interpretation of an electrical schematic diagram

- ✓ Cross references
- ✓ Electrical designator
- ✓ Electrical symbols
- ✓ Wiring, Terminal Blocks, Wire Connectors

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 25, 2027	Jan. 29, 2027	5 days	5950.00 \$	USA , Los Angeles
April 20, 2026	April 24, 2026	5 days	4250.00 \$	UAE , Dubai
Aug. 10, 2026	Aug. 14, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 29, 2026	Dec. 3, 2026	5 days	4250.00 \$	Bahrain , Manama

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