



Training Program:

**Advance Electrical Troubleshooting, Repairs and
Isolations Techniques**

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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.

Course Objectives

At the end of the program participant will:

- Understand the basic principle of typical process sensor
- Acquire troubleshooting skill for 3 phase AC facilities and equipment's
- Be able to Measure and test electrical parameter
- Be Acquainted with mechanical faults associated with process facilities and equipment's

Course Outlines

Review of basic electrical troubleshooting

Introduction to advance troubleshooting

Principles of Typical process equipments and facilities

- Pump, Agitator, Heaters
- Motors, Transformers
- Contactors, Overloads

Instrument testing and measurement of electrical parameters-

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

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

Principles of input transducers and sensors

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

Interpretation of electrical schematic diagram

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