



## Advance Electrical Troubleshooting , Repairs and Isolations Techniques Training

### Description

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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 equipments
- Be able to Measure and test electrical parameter
- Be Acquainted with mechanical faults associated with process facilities and equipments

#### 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

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