

Electrical /Electronic Maintenance 2

Description

This course is designed as the next level (Level 2) of electrical/electronic training for your skilled personnel. Through lecture and hands-on training the students will learn how to test equipment, how to read wiring diagrams and schematics, develop an understanding of industrial power systems and

troubleshoot your electrical equipment. This course may be used to train new hires, update skilled craftsmen and cross-train personnel for servicing industrial electrical and electronic equipment. This course can be customized to fit your industries needs.

Outline

- Electrical and Electronic Equipment
 - Identify and Test Resistors, Diodes and Capacitors
 - Making Proper Connections
 - Wiring Methods
 - Fuses and Breaker Protection
 - Solenoids and Contactors
 - NEMA Ratings
- Understand Power and Control Circuits
 - Electrical Symbols and Line Diagrams
 - Logic applied to Line Diagrams
 - Control Circuit Ladder Diagrams
 - Electronic Schematics
- AC and DC Industrial Systems
 - Transformers
 - Panelboards
 - Motor Control Center and Busways
 - AC and DC Generation
 - Diodes and Silicon Rectifiers
- Using Electrical and Electronic Troubleshooting Equipment
 - Multi-Meters
 - Meggers
 - Continuity Testers
 - Amp-Meter
 - Oscilloscope
 - Phase Indicator

Prerequisites

Electrical/Electronic Maintenance 1

Course Length

32 hours/ Up to 12 participants.

Performance Objectives

At the completion of this course the participant will have developed an understanding of electrical and electronic equipment, power and control circuits, AC and DC industrial systems and the usage of electrical and electronic troubleshooting equipment.