Drives

Course Outline [80% Hands-On training]

This class is designed to help technicians understand the basics of electricity and how energy is converted to perform work. It will also focus on 3-phase systems and how to read line-to-line and phase-to-phase voltage.

Lesson 1: Safety
1.1: Explain the safety PPE requirements when dealing with electricity
1.2: Identify different between amps, volts, and ohms
1.3: Explain OSHA regulations.
1.4: Demonstrate how to use a digital meter

Lesson 2: Wiring
2.1: Basic to Intermediate Control circuit wiring
2.2: Wire a DC Motor with speed control
2.3: Wire a single-phase motor with Load center

Lesson 3: Circuits & Drives
3.1: What is a drive or VFD?
3.2: Identify parameters
3.3: Demonstrate loading parameters
3.4: Demonstrate a forward/reversing circuit using a drive

Lesson 4: Diagnostics & Troubleshooting
4.1: Diagnostic drive Parameters
4.2: Troubleshoot wiring circuit