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Adult Technical Training
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Electrical Systems

40 Hour Training

Instructors: Pat Hulsey, Brad Griffin

Total Cost: \$7,390

\$2464.00 per student based on 3 students.

Credentials and Certifications: Washington County Career Center Certificate of Completion

Training Outline:

Motor Controls (VFD) 24

1. Define and explain what a VFD is.
2. Properly read and interpret information on a motor control drawing, including ladder logic.
3. Identify the components of a motor control starter
4. Size motor power and control wiring, circuit breaker, and overloads per NEC standards
5. Wire and test a motor control start/stop control circuit
6. Wire and test a reversing motor control forward/reverse/stop circuit
7. Wire and test a motor control circuit utilizing control relays, timing relays and Programmable Logic Controller
8. Troubleshooting motor control circuits

Programmable Logic Controllers 16

1. Define and explain what a PLC is.
2. Understand the differences between a PLC, Micro and Mini PLC.
3. Perform basic commissioning of a PLC.
4. Understand the different types of I/O and their uses.
5. Select and install specific PLC hardware.
6. Troubleshoot basic hardware problems.
7. Utilize software to program or operate a PLC.
8. Troubleshoot problems using a PC and communications software.
9. Develop simple PLC programs.