

21740 State Route 676, Marietta, Ohio 45750

Adult Technical Training Phone: 740.373.6283 Toll Free: 800.648.3695 Fax: 740.376.2240 www.mycareerschool.com

## **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.

Washington County Career Center, Adult Technical Training is Accredited by Accrediting Commission for Career Schools and Colleges (ACCSC). ACCSC holds accreditation with US Dept. of Educ. ACCSC sets multiple Standards of Accreditation by which WCCC must comply to ensure quality programs, experienced instructors, optimal graduation rates, and preferred job placement rates.