



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](http://www.mycareerschool.com)

## Electrical Troubleshooting and Print Reading

### 40 Hour Training

**Instructors:** Pat Hulsey, Jack DeVol, Brad Griffin

**Total Cost:** \$2,000 per student. Minimum 4 students and a Maximum 12 students.

**Credentials and Certifications:** Washington County Career Center Certificate of Completion

#### Training Outline:

##### Print Reading

1. Symbols
2. 1-Line diagrams
3. Wiring diagrams
4. Schematic Diagrams
5. Reading a print
  - a. Legend
  - b. Keys
  - c. Notes
  - d. Abbreviations
  - e. Equipment location
  - f. Print references

##### Troubleshooting

1. Circuit analysis
2. Troubleshooting equipment in the circuit
3. AC motors
4. DC motors
5. Motor electrical balance and why
6. Motor overloads
7. Motor high voltage / Low voltage connections
  - a. Delta
  - b. Wye
8. How to properly check a motor
9. AC drives
10. DC drives
11. Soft starts
12. Across the line starters
13. Relay logic hard wire prints



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14. Disconnects
15. Moulded case circuit breaker
  - a. Standard
  - b. Programmable
16. RTDs
17. Thermocouples
18. Encoders
19. AC inverter duty motors
20. DC motor speed control

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.