

RESIDENTIAL AND COMMERCIAL ELECTRICAL

Flip on the switch to your future and be wired for success

Build a strong foundation for a career in the electrical industry in this two-year program. Students will develop skills in electrical theory, wiring, grounding, safety practices, and code compliance while gaining hands-on experience in installation, troubleshooting, and system maintenance. Students will work with residential, commercial and industrial applications, including emerging renewable energy technologies.



What You Can LEARN

Units of Study

- Electrical Fundamentals
- Introduction to The National Electrical Code
- Conductor Properties
- Emergency Power
- Professional Techniques for Electricians
- Advanced Branch Circuits and Feeders
- Transformers
- Basic Motor Control
- Alternative Energy-Wind/Solar
- Wiring Methods
- Electrical Installations
- Branch Circuits and Feeders
- Grounding
- Electrical Planning and Print Reading



What You Can EARN

Available High School Academic Credits

At district request, students may earn:

- English
- Science

Licensing/Industry-Based Certifications

Students have opportunities to earn:

- OSHA 10 Construction Industry
- National Occupational Competency Testing Institute (NOCTI) Certification
- Ironridge Pitched Roof Solar Installation Certification

Work-Based Learning

- School-Based Learning
- Educational Tours
- Guest Speakers
- Career Fair
- Job Shadow
- Co-op



Where You Can GO

Career Opportunities

Minimal Requirement Beyond CTE

- Electrician Apprentice

Additional Education and/or Experience

- Electrician
- Electrical Inspector
- Electrical Contractor
- Engineer

Postsecondary Pathways

Dual Enrollment

- Monroe Community College
 - System Electricity (ELT130)

Articulation Agreements

- Alfred State

Now You Can
KNOW

According to the Bureau of Labor Statistics, employment of electricians is projected to grow 10% from 2018 to 2028.



Monroe 2-Orleans BOCES Career and Technical Education

WEMOCO Career and Technical Education Center

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