

# Residential and Commercial Electrical

Enlighten your future

Western Monroe & Orleans Counties  
**WEMOCO**  
Career & Technical Education Center



Learn electrical theory, wiring, and to interpret and apply the requirements of the National Electric Code for residential and commercial construction projects.



## Units of Study

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

## Available Academic Credits

- English
- Science

## Licensing / Industry- Based Certifications

- OSHA 10 Construction Industry
- Pitched Roof Solar Panel (PV) Installation Certification

## Work-Based Learning

CTE programs bring students into the workplace for real life experiences. Businesses that support our Electrical program:

- Citygate Electric
- CM Armitage
- Horizon Solutions
- Monroe 2 BOCES Operations and Maintenance
- RADEC Corporation

## Articulation Agreements

ELT 130: System Electricity

## Articulation Agreements

Alfred State



## Career Paths

All CTE programs correlate to many career paths.

### ↓ Start Here

- Electrician Helper

### Go Here ↓

*with more education & experience*

- Electrician
- Electrical Inspector
- Electrical Contractor
- Engineer

## Explore more:

<https://www.careerzone.ny.gov/>

<https://www.onetonline.org/find/>

**WEMOCO**  
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