



# CONSTRUCTION ELECTRICITY

The Construction Electricity program prepares students for a rewarding career as an electrician. Skills learned include proper safety precautions, the use of tools, residential wiring, service entrance installation, commercial wiring, motor control circuits, and troubleshooting. Students also learn electrical theory, electrical math, blueprint reading, calculating loads, and service requirements. Students will become familiar with the National Electrical Code.

## Curriculum:

- DC electric circuits
- Read blueprints and electrical layouts
- Practice electrical safety procedures
- Install residential and commercial wiring
- Use electrical test equipment
- Lay out and install circuits
- Install electrical devices
- Bend and install conduit
- Troubleshoot electrical circuitry on machines
- Install motor controls

*Students have the opportunity to earn industry credentials and college credits.*

## Curriculum (cont'd):

- Wire motor control or safety device circuits
- Understand programmable controller principles
- Understand principles of computer controls

## Certifications:

- IBEW Credentials
- Heartsaver CPR, AED and First Aid
- OSHA 10-Hour: Certification

## Opportunities:

- General Electrician
- Construction Technician
- Electric Company Repairman
- Electric-Mechanical Technician
- Industrial Electrician
- Maintenance Electrician
- Electrical Sales Contractor
- Security / Fire Alarm Installer

Note: Since this a new and developing program, the above program information is subject to change.



Visit [mcjvs.edu](http://mcjvs.edu) for more information about our Construction Electricity program.