State-Approved (Chapter 74)
Program Overview

Electricity

Licensed electricians are always in demand due to their role installing, maintaining, and repairing electrical systems and equipment.

What Students Learn & Do

Electricity programs teach students practical skills for maintaining electrical equipment for lighting, heating and power. Using industry-standard tools and materials, students learn to install, repair and monitor electrical systems while learning about electrical theory including how electricity is controlled via circuits, switches, boxes and meters.

Safety is emphasized throughout, including personal safety while working and protecting building occupants by following the standards of the Massachusetts Electrical Code. Other knowledge areas covered by the curriculum include blueprint reading, reading wiring diagrams, and understanding basic principles of electrical conduction. Over time, students move from school-based instruction and projects to real-world, supervised work sites.

Graduates of Electrical Technology programs are required to meet the same high academic standards as their peers in other high school programs. These standards are set by the State of Massachusetts. In addition, the curriculum provides hands-on applications of mathematics, engineering and science principles.

Licenses & Certifications

Programs will prepare students to earn industry-recognized credentials, and typically students will be able to complete one or more before they graduate from high school.

- Electrician's License: 8,000 hours of work experience + 600 hours of theory (a portion of this time can be completed during high school.)
- OSHA 10 hour - General
- Hot Work Safety
- First Aid/CPR/AED

Options After High School

State-Approved (Chapter 74) programs provide precise training needed for entry-level employment. Here are some possible career opportunities for Electrical Technology program graduates.

High School Diploma

- Apprentice Construction Electrician
- Apprentice Maintenance Electrician
- Supply Sales Clerk

Technical Training or Associate Degree

- Journeyman or Master Electrician
- Electrical Estimator
- Electrical Pole Lineman
- System Installer or Technician
- Electrical Inspector

Bachelor's Degree (4 Years of College)

- Electrical Engineer
- Project Manager
- Electrical Corporate Executive
- Electrical Trade Teacher
- Electrical System Designer

Questions to Ask a Program You Are Considering

1. **What workplace experiences do you offer to students - at school, or with an employer?**
2. **What are some common next steps for graduates of this program and how do you support them to get there?**

Learn about the differences between State-Approved (Chapter 74) and Local programs
http://www.doe.mass.edu/ccte/cvte/cte-families/state-vs-local.html

Massachusetts Department of Elementary and Secondary Education

Federation for Children with Special Needs