



## Electrician

### Assunpink Center

This program prepares students for the principles of residential and commercial electrical systems. Students learn the technical knowledge and skills necessary to install, operate, maintain, and repair residential, commercial, and industrial electrical systems. Students will work with DC and AC motors, controls, electrical distribution panels, circuit diagrams and use of the National Electrical Code (NEC), and blueprint reading. Students are exposed to renewable energy and cost-benefit analysis of installation. At the completion of this program, students may obtain employment as an electrical apprentice, electrician helper, electrician, or journeyman electrician.

In addition to hands-on industry training, students have the opportunity to obtain their OSHA 10 certification. This industry-recognized certificate provides entry-level electricians with a general awareness of recognizing and preventing hazards on a construction site. All students join their respective Career Technical Student Organization, Skills USA, and are continually challenged as they compete in local, regional, and state-level competitions. In addition to the industry-valued credentials, students who successfully complete this program may be afforded prior learning assessment (PLA) credits with Mercer County Community College.

### Electrician I

Grade Level: 11 Credits: 20

Year one (1) students begin an emphasis on proper job safety on their way to earning the OSHA 10 Industry Training Certificate. Students learn basic skills about installing, designing, troubleshooting, and maintaining electrical systems, devices, and equipment for commercial wiring. The students learn how to install receptacles, switches, and lighting on commercial buildings. While working with the various circuits for a dwelling, the students learn to work safely around electricity and to use the proper tools for commercial wiring. The students are taught related math and formulas related to the trade.

### Electrician II

Grade Level: 12 Credits: 20

Year two (2) goes into a deeper dive for many of the skills covered in year one, but with a focus on commercial buildings and their construction. Students learn about distribution equipment, green and renewable energy, plus industry employability and professional skills. Students are also provided the opportunity to take advantage of work-based learning opportunities with local business partners as a part of this program.



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#### Industry Valued Credentials & Certifications

OSHA 10 certification

#### Articulation Agreements

Mercer County Community College

