# FIRE ALARM ADDRESSABLE

# **Somerset County Vo-Tech Program Overview**

# **Electrical Construction**

Employment for electricians is expected to grow about 9% over the next 10 years, as fast as the average for all occupations. Job prospects for electricians should be very good as many employers report difficulty finding qualified applicants. The median pay for an electrician in 2020 was \$56,900 per year or \$27.36 per hour.



(Source: United States Bureau of Labor Statistics)

The Electrical Construction Program provides students with instruction in various electrical installations and related skills, safety standards, tools, instrumentation, and terminology. Topics covered in this course include wiring systems, conductors, box assemblies, device wiring, overcurrent protection, and grounding. Also included is an introduction to the National Electrical Codebook (NEC). Students perform standard single pole switch, three way switch, four way switch, duplex grounding receptacle and lighting fixture installation. Installations are completed from rough to trim out. Students practice all skills in a lab setting on a simulated residential structure.

### Curriculum:

Year 1: Construction Cluster, Intro to Carpentry, Plumbing, Electrical, Electrical Fundamentals, Residential Electrical

Year 2: Alternating Current and Direct Current Principles, Electrical Prints and Planning

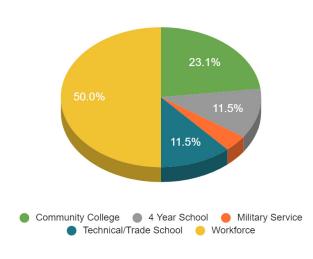
Year 3: Advanced Residential Electrical Installations, Commercial Appliances

Year 4: Industrial Applications, Self-directed Learning, Opportunity for Work-Study/Apprenticeship

Classes meet for 3 periods/2 hours per day, 5 days a week Average number of new students accepted per year: 10 Opportunity for professional certifications: YES

Opportunity to earn college credits: YES

# Electrical Construction Student Plans at Graduation



## **Future Careers**

Electrician
Utility Worker
Electrical Engineer
Industrial Engineer
Construction Worker
Solar Power Technician
Electronics Technician
Construction Inspector
Home Entertainment System Technician
Contractor

# **Recent Student Post-Secondary Destinations**

Complete Electrical Installations Inc. Lincoln Tech Raritan Valley Community College Rowan University United States Airforce



SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel by providing educational programs, events and competitions that support career and technical education (CTE) in the nation's classrooms.

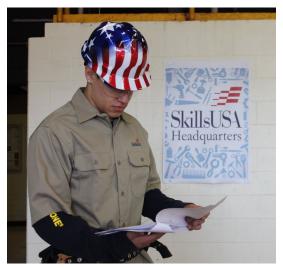
SCVTHS students have the opportunity to compete for state and national recognition in the annual SkillsUSA competitions

# **Recent Awards**

2021 Gold Medal NJ State Electrical Construction Wiring Competition

2021 Gold Medal National Teamworks Competition

2021 Gold Medal National Industrial Motor Control Competition







All Somerset County Vocational & Technical School programs are supported by a community advisory panel. The Electrical Construction advisory panel members include:

Vincent Battista Owner, Bold Electric

Kevin Conover Electrical Instructor, Middlesex County Vocational Technical School

Mike Finnegan Journeyman Electrician

Dan Mastrolanni Owner, Custom Electric Design
Jim Mcterany Axis Industrial Automation
Mike Sieffert Owner, Sieffert Electrical