



## 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

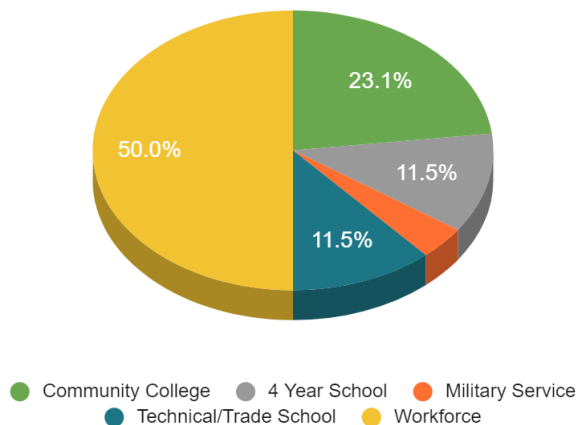
Classes meet for 3 periods/2 hours per day, 5 days a week

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




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### Future Careers

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

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### Recent Student Post-Secondary Destinations

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

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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  |

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