

Somerset County Vo-Tech Program Overview

Electrical Construction



Employment for electricians is expected to grow about 6% over the next 10 years. Job prospects for electricians should be very good as many employers report difficulty finding qualified applicants. The median pay for an electrician in 2024 was \$62,350 per year or \$29.98 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

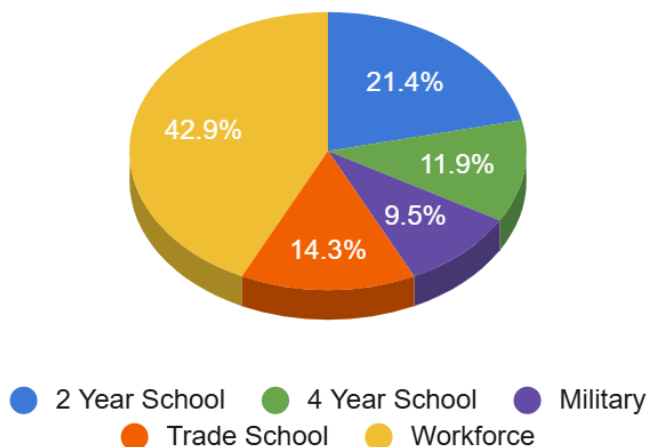
Average number of new students accepted per year: 10

Opportunity for professional certifications: YES

Opportunity to earn college credits: YES

Student Plans at Graduation

Electrical Construction



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 Air Force

PARA ASISTENCIA EN ESPAÑOL LLAME AL 908-526-8900 x7298

Somerset County Vocational Technical School fully complies with Title II, Title IX, and Section 504: CFR 34 Part 100, 104 106 and CFR 28 Part 35. SCVTS does not discriminate based on race, color, national origin, sex or disability status. For any inquiries regarding Title II and Title IX, please contact Patrick Pelliccia (ppelliccia@scvts.net) at 1.908.526.8900 x 7121, 14 Vogt Drive, Bridgewater, NJ 08807. For inquiries regarding Section 504, please contact Maria Johnson (mjohnson@scvts.net) at 1.908.526.8900 x 7155, 14 Vogt Drive, Bridgewater, NJ 08807



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

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.

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
2022, 2023	Gold Medal	NJ State Industrial Motor Control Competition
2022	Bronze Medal	NJ State Teamworks Competition
2022	Bronze Medal	National Industrial Motor Control Competition
2024	Gold Medal	NJ Basic Electrical Wiring
2024	Silver Medal	NJ Electrical Construction Wiring
2025	Silver Medal	NJ State Industrial Motor Control Competition
2025	Silver Medal	NJ Teamworks Competition
2025	Bronze Medal	NJ Basic Residential Wiring
2025	Bronze Medal	NJ State Electrical Construction Wiring Competition



All Somerset County Vocational & Technical School programs are supported by a community advisory panel. The Electrical Construction advisory panel members include skilled workers and industry professionals from:

Bold Electric
 Middlesex County Vocational Technical School
 Raritan Valley Community College
 HESCO Electric
 Ampere Electric
 Educational Solutions Enterprises, ESE
 NJ Independent Electrical Contractors
 Custom Electric Design
 Axis Industrial Automation
 Sieffert Electrical

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