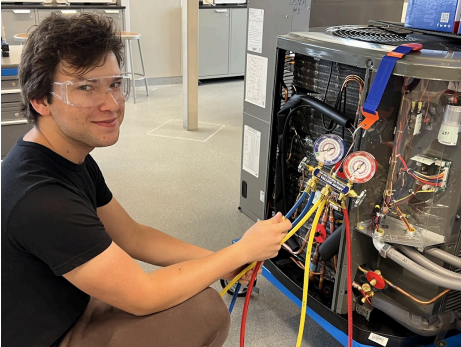


Heating, Ventilation, Air Conditioning and Refrigeration



NEW CTE PROGRAM FOR STUDENTS

Employment of heating, air conditioning, and refrigeration mechanics and installers is projected to grow 6 percent from 2022 to 2032, faster than the average for all occupations. The median annual wage for heating, air conditioning, and refrigeration mechanics and installers was \$59,810 in 2024.

(Source: United States Bureau of Labor Statistics)

The Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) Technology program prepares students for employment and further education in the residential, commercial, and industrial HVAC fields. Students gain hands-on experience installing, maintaining, and troubleshooting comfort cooling, heating, and refrigeration systems while developing a strong foundation in electrical theory, refrigeration principles, airflow, and system design. Emphasis is placed on safety, professionalism, and understanding energy efficiency and environmental sustainability in today's industry.

Students use modern diagnostic tools, EPA-approved refrigerants, and control systems to simulate real-world job-site conditions. The program integrates classroom instruction with laboratory projects that mirror field practices and industry standards. Upon completion, students are prepared for entry-level employment, apprenticeships, or advanced technical training, as well as national certification exams such as EPA Section 608 and OSHA 10.

Curriculum:

Year 1: Fundamentals of Electricity, Safety, and Refrigeration Principles

Year 2: Residential Air Conditioning and Heating Systems

Year 3: Commercial HVAC and Refrigeration Systems

Year 4: Advanced Troubleshooting, Controls, and System Design

Classes meet for 2 periods/80 minutes per day, 5 days a week

Students can attend full or shared-time

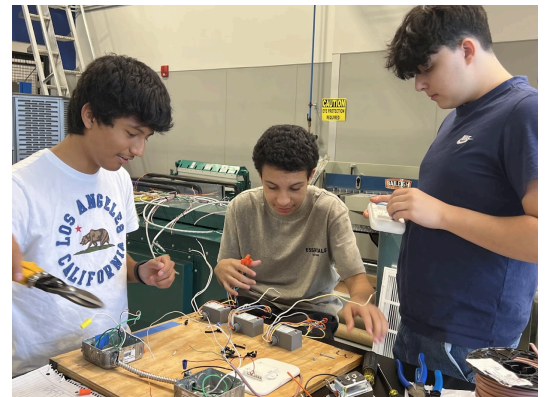
Average number of new students accepted per year: 20

Opportunity for professional certifications: YES

Opportunity to earn college credits: No

Future Careers

HVAC Technician



HVACR advisory panel members include skilled workers and industry professionals.

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