Heating, Ventilation, Air Conditioning, Refrigeration (HVAC/R) & Green Technologies

With classroom instruction and project-based learning, students learn design, installation and repair of HVAC systems as well as emerging technologies including solar and geothermal in this two-year program. Students receive extensive training in home energy efficiency and have the opportunity to obtain the 10-Hour OSHA Safety Training, the EPA section 608 refrigerant handling certification, and the Universal R-410A Safety training and certification.

Characteristics for Success:
- A strong interest in some or all course material
- Likes to problem solve and design solutions
- Excellent attendance
- Parental support of the career and HVAC/R & Green Technologies program

Recommended Home School District Courses:
- Design and Drawing Production
- Basic Electricity
- Physics
- Computer Assisted Design (CAD)
- Algebra 2

Topics Covered:
- Safety
- Power and Specialized Hand Tools
- Compressors, Condensers, Evaporators
- Piping Materials and Fittings
- Wiring
- Energy Sources and Fuels
- Furnaces
- Air Conditioning Systems
- Motors and Generators
- Installation, Service, and Repair

Available Academic Credits:
- Math 11 (1 credit)
- Science 11 (1 credit)
- English 12 (1 credit)
- Career and Financial Management (1/2 credit)

For more information on the availability of this option, please contact your home school counselor.

CONTACT INFORMATION:
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Lisa Gilbert
Rensselaer Educational Center
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lgilbert@questar.org

College Credit Available From:
- Alfred State College
- Hudson Valley Community College
- University of Northwestern Ohio

Related Career Opportunities:
- Business Owner
- Engineer
- Installer
- Plant Manager
- Retail Parts Employee/Manager
- Salesperson
- Service Technician
- Green Technologies: Solar Technologies and Geothermal Technologies

Industry-Based Certifications (attainable through program):
- Occupational Safety and Health Administration (OSHA) Safety Certification (10 hour)
- Environmental Protection Agency (EPA) 608 Certification
- GasTite CSST Certification

Technical Assessment:
- HVAC Excellence H.E.A.T. Plus
  Pass ALL three parts of the technical assessment: written, performance and portfolio
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