



Janine Thirone, Professional Photography Program

**Fire
&
Ice!**

Businesses, industries and homes all use the services of HVAC technicians. Train for any one of 17 career paths including cooling and heating, control systems and more. You will have an opportunity to earn national licensing and certification in refrigerant handling from the EPA as well as gas and oil heat servicing certifications from NATE and NORA. Students who qualify may participate in factory-sponsored training by a major HVAC local supplier. Qualifying students may also receive reduced tuition rates and 300 hours of training at a local college.

Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

COURSE DESCRIPTION

Our program includes the installation, service and repair of air conditioning, cooling, heat pump systems and electrical theory and service. An integral part of this program involves green technologies including geothermal and solar hot water heating, indoor air quality and HEPA filtration, as well as air sealing techniques. Students are prepared to take the EPA Certification Test for the handling of refrigerants.

Students will take the OSHA-10 course in their first year of study with the goal of obtaining the OSHA-10 card. Second-year students will take the OSHA-30 course as well.

COURSE CONTENT

- | | |
|------------------------------------|--|
| Residential Air Conditioning | Electrical Theory |
| Marketing | Indoor Air Quality |
| Cooling and Heat Pump Systems | Freezers and Freezing Systems |
| Controls, Circuits and Instruments | Service Procedures and Troubleshooting |
| Efficiency Rating | Air and Duct Sealing |
| Commercial Refrigeration | Alternative Energy |
| Ice Machines | Energy Efficiency |
| Air Conditioning Systems | |

EDUCATIONAL OPPORTUNITIES

- Advanced College Standing
- Two Year Technical College
- Associate Degree or Certificate

CAREER OPPORTUNITIES

- | | |
|--------------------------------|-------------------------------|
| Service Technician | Heating and Air Conditioning |
| Service Manager | Mechanic/Installer |
| Installer's Helper | Manufacturer's Representative |
| Parts Manager | Salesperson |
| Small Business Owner/Operator | Labor Union Apprentice |
| Air Quality Control Specialist | |

SUGGESTED SUPPORTIVE COURSES

Algebra, Science

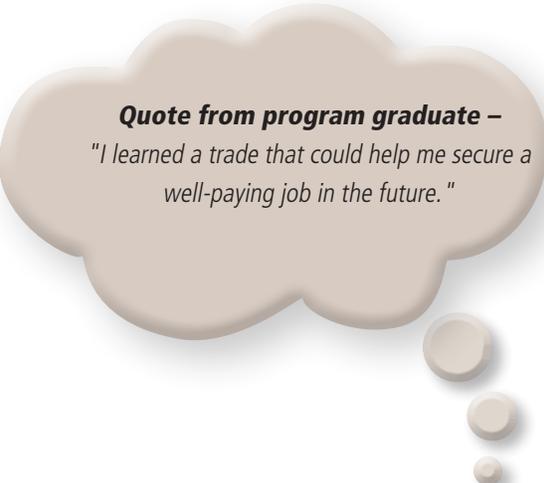
ADDITIONAL INFORMATION

- COSTS** Tools and equipment approximately \$300
- LENGTH OF COURSE**..... 1 or 2 years
- LOCATIONS** Gary D. Bixhorn Technical Center
Edward J. Milliken Technical Center
Harry B. Ward Technical Center
- CTE/ACADEMIC CREDIT** Please see chart on pages 4 and 5 for updated details
- INDUSTRY CERTIFICATION** Environmental Protection Agency (EPA) Clean Air Section 608 Certification
National Oil Heat Research Alliance (NORA), North American Technical Excellence (NATE®),
OSHA-10, OSHA-30

Architecture and Construction

- Heating, Ventilation and Air Conditioning (HVAC) (BTC, MTC, WTC)
- Introduction to HVAC (ICC)
- Carpentry, Residential Construction and Home Improvement (BTC)
- Facilities Maintenance (ICC)
- Plumbing and Heating (BTC)
- Electrical Trade and Alternative Energy (BTC, MTC, WTC)
- Carpentry (ICC, WTC, Southampton HS)
- Carpentry Exploration (IAC)





Quote from program graduate –

"I learned a trade that could help me secure a well-paying job in the future."

