

## NORTH MONTCO TECHNICAL CAREER CENTER HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

The heating, ventilation, air conditioning (HVAC) industry has become an increasingly important part of our environment. Indoor environmental air quality is essential in residential, commercial and industrial applications. Many technological advances could not be accomplished without the HVAC specialist. The HVAC program consists of basic to advanced instruction in both the installation and servicing of residential systems.

### What you will learn:

- Installation and servicing of residential HVAC systems
- Oil and gas heating (furnaces/boilers)
- Air conditioning and heat pumps
- Electrical principles
- Plumbing (trade related)
- Basic refrigeration systems
- Blue print reading

### Physical criteria:

- Manual dexterity
- Heavy lifting/carrying
- Strong eye/hand coordination
- Physical stamina/strength
- Pushing/pulling

### Class of 2010 graduation plans:

- 50% plan to continue their education in this field
- 50% found employment in this field

### Uniform/equipment list

#### (With approximate costs)

- Safety glasses (\$5)
- Navy blue work pants (\$17)
- 20' Tape measure (\$10)
- Solar powered calculator (\$5)
- Leather shoes or work boots (\$40)
- Navy blue work shirt (\$24)
- 1 ½" white binder, dividers, sheet protectors (\$10)
- Digital multimeter (2<sup>nd</sup> year) (\$120)
- Portfolio binder, divider, sheet protectors, indexes (\$5)

### Certifications students can earn:

- Section 608 Refrigerant/Recovery
- National Oilheat Research Alliance (Bronze)
- Gastite & Trac Gaspipe
- General Industry Safety (OSHA)
- HVAC Excellence Certifications

## POTENTIAL CAREER OPPORTUNITIES

### Career Opportunities:

Oil Heating Service Technician  
Gas Heating Service Technician  
Plumber/Pipe Fitter Technician  
Residential Heating/Cooling Technician  
Installation/Service Technician  
Air Conditioning/Heat Pump Technician  
Building Trades Journeyman Steamfitter  
HVAC Service Journeyman

### With Post-Secondary Education

HVAC Specialist  
Air Conditioning and Heating Engineer  
Estimator  
Factory Service Representative  
Energy Management Control Engineer  
Mechanical Engineer  
Building Automation Engineer

**North Montco Technical Career Center**  
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