



# HEATING, VENTILATION & AIR CONDITIONING

The demand for residential, commercial and industrial climate control system technicians is on the rise. The Heating, Ventilation & Air Conditioning program teaches students how to install, maintain and repair gas, propane, oil and electric residential and light commercial heating and cooling units. Suggested prerequisites for this program are mechanical aptitude and problem-solving abilities.

## Curriculum:

- Basic duct work design
- Basic electrical circuit construction
- Fundamentals of electricity
- Identification and use of specialized tools
- Mechanical maintenance
- Piping practices
- Safe refrigerant practices
- Schematics
- Sheet metal assembly
- Sheet metal fabrication
- Soldering and brazing

## Curriculum (cont'd):

- Theories of heating and cooling
- Threading and cutting
- Use of refrigerant metering devices

## Certifications:

- EPA 608, Core I, II, III
- CPR / First Aid
- OSHA 30-Hour

## Opportunities:

- Energy Management Technician
- Installation Technician
- Pipefitter
- Service Technician
- TAB Technician
- Sheet Metal Fabrication



*Students have the opportunity to earn industry credentials and college credits.*



Visit [mcjvs.edu](http://mcjvs.edu) for more information about our Heating, Ventilation & Air Conditioning program.

