



# HEATING, VENTILATION & AIR CONDITIONING

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

## Curriculum

- Theories of heating and cooling
- Identification and use of specialized tools
- Fundamentals of electricity
- Soldering and brazing
- Threading and cutting
- Splicing and/or connecting wires
- Sheet metal assembly
- Sheet metal fabrication
- Basic ductwork design
- Use of refrigerant metering devices
- Piping practices
- Mechanical maintenance
- Schematics
- Safe refrigerant practices

Students have the opportunity to earn college credits in this program.

## Certification\*

- OSHA 10-Hour Industry (Construction)
- CPR/First Aid
- EPA 608
- NATE/ICE
- NCCER Core
- NCCER I and II

## Some Employment Opportunities

- Service technician
- Installation technician
- Energy management technician
- Facilities manager
- Salesperson



## Facilities and Equipment

Students learn in our newly renovated classroom. Some equipment includes:

- Power and hand tools
- Specialty HVAC tools
- Sheet metal fabrication tools
- Manifold gauges
- Micron gauges
- Recovery machines
- Vacuum pumps
- Multimeters
- Amp meters
- Brazing and soldering torches
- Pipe threading machine

\*Students who meet certification criteria will have the opportunity to test in their CT program.

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

