



# HEATING, VENTILATION & AIR CONDITIONING

## PROGRAM OVERVIEW

Heating, Ventilation, Air Conditioning/Refrigeration (HVAC) introduces students to a major subdiscipline of mechanical engineering – the principles and fundamentals of heating, ventilation, air conditioning, and refrigeration systems. Instruction focuses on the fabrication, system installation, use of diagnostic equipment and the maintenance and troubleshooting of these various systems. Students learn how to work with electrical testing equipment; plastic, steel and copper pipe and tubing; sheet metal; hand tools; and specialized tools of the trade.

Students meeting all requirements of the Heating, Ventilation, Air Conditioning/Refrigeration program, including successful completion of practical and written assessments, will receive a Technical Endorsement on their Regents Diploma.

Students are also eligible to participate in career competitions through SkillsUSA

**ARTICULATION AGREEMENTS:** Lincoln Tech, SUNY Delhi

**MAGNET EXIT PROJECT:** Annual HVAC Competition

## TECHNICAL SKILLS

AutoCAD Drafting, Tool Use and Safety, Soldering, Sheetmetal Fabrication, Electrical Wiring, Braising, Machinery Operation, Troubleshooting, OSHA Certification, EPA Certification

## CAREER OPPORTUNITIES

HVAC Technician, Building Maintenance, Plumber, Business Owner, Pipe Fitter, Oil Burner & Heating Mechanic, General Contractor, HVAC Installer, Refrigeration Technician, Specifying engineer

SAUNDERS TRADES & TECHNICAL  
HIGH SCHOOL