HEATING, VENTING, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY ATC

The Heating, Venting, Air Conditioning, and Refrigeration (HVACR) Technology Program prepares students with training in the heating, air conditioning, ventilation, and refrigeration field, both commercial and residential. Skills learned will enable graduates to choose from a variety of occupations such as service, installation, design and maintenance. Program flexibility allows students to enter at their existing level of competency and continue training to an employable skill level. Classroom instruction is provided in basic electricity, hydronic heating, commercial refrigeration, gas and oil heating systems, air conditioning, and general maintenance skills. Emphasis is placed on developing a logical approach to servicing, troubleshooting, and repair through directed practice.

Nationally accredited through HVAC Excellence. Articulation agreement with the United Association Union of Plumbers, Fitters, Welders and Service Technicians. Approved program with the Idaho Division of Occupational and Professional Licenses.

Entrance Requirements:

- Program has semester admittance (Fall and Spring).
- The prospective students must have a current valid driver's license while enrolled in the program and have no DUI's in the past 12 months.
- Enrollment priority is on a first-come, first-served basis as determined by the student's faculty advising date.
- Aleks score in Math of 14 or higher, Writing Placement Exam of 2 or higher, or qualify for MTHPT-103 and ENGL-101.

Upon completion of the Advanced Technical Certificate, the student will possess technical skills in:

- Knowledge of residential, commercial, and industrial HVACR systems
- Application of systematic and analytical troubleshooting processes
- Analysis of the properties of air, refrigerants and fuels
- Application of safety procedures
- Evaluation of energy usage and cost reduction strategies
- Comprehension of energy transfer in the form of heat, electricity, and kinetic motion
- Knowledge in plumbing, electrical, mechanical and structural trades
- Analysis of international, state, and local building codes
- Application of HVACR service, installation, maintenance, and design procedures
- Evaluation of system performance

Advanced Technical Certificate Requirements

Code	Title	Credits
Program Requirement		
MTHPT-103	APPLIED ALGEBRA	3.00
Technical Core		
HVACR-115	BASIC ELECTRICITY	5.00
HVACR-120	HVAC PRINCIPLES	5.00
HVACR-130	TRADE SKILLS	5.00
HVACR-140	MECHANICAL SYSTEMS MAINTENANCE	5.00
HVACR-225	REFRIGERATION THEORY	5.00
HVACR-230	ADVANCED HVACR CONTROLS	5.00
HVACR-235	A/C SYSTEM DESIGN AND INSTALLATION	6.00
HVACR-240	DUCT FABRICATION	2.00
HVACR-250	GAS CODE REVIEW	2.00
HVACR-255	HEATING SYSTEMS	6.00
HVACR-260	MECHANICAL AND ELECTRICAL CODE REVIEW	2.00
HVACR-265	HYDRONIC SYSTEMS	2.00
HVACR-294	INTERNSHIP	2.00
Total Credits		**55.00**