

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION (HVAC/R) TECHNOLOGY

Program Description

The Certificate of Proficiency in HVAC/R will serve the needs and goals of entry-level workers who can serve as HVAC/R helpers including public and private maintenance departments. The technical certificate will provide competencies to individuals hired in beginning levels of HVAC/R technician positions and those seeking to enhance their credentials and abilities in a progression toward further certifications in HVAC/R.

The length of this program is two (2) semesters and one (1) summer term. The program costs are approximately \$5,000 for tuition and fees and approximately \$1,350 for books and supplies.

Student Learning Outcomes

Successful completers of this program will be able to:

- Demonstrate skills and knowledge to diagnose and repair current ventilation, heating, air-conditioning, and refrigeration systems.
- Perform preventive maintenance with high-quality workmanship.
- Complete accurate work orders of HVAC/R equipment repairs related to service history, diagnosis/analysis of problems and description of correct repairs.
- Successfully obtain at least one EPA certification.

GRADUATION REQUIREMENTS

(Suggested Schedule)

			<u>Fall Semester</u>	<u>Credit Hours</u>
HVAC	10104	HVAC/R Fundamentals		4
HVAC	10202	HVAC/R Tubing & Piping		2
HVAC	10303	HVAC/R Schematics		3
HVAC	10404	HVAC Electricity & Control Wiring		4
MATH	22163	**Advanced Industrial Math <i>OR higher-level mathematics</i>		3
			Exit: HVAC/R Certificate of Proficiency	16
			<u>Spring Semester</u>	
COMM	12053	Tech Communication <i>OR higher-level composition course</i>		3
CPSI	11083	Tech Computer Fundamentals <i>OR higher-level computer course</i>		3
HVAC	20103	Heating Technology		3
HVAC	20204	Refrigeration Principles		4
HVAC	20304	Air Conditioning Systems		4
			<u>Summer I Term</u>	
COMM	11052	Employability Skills/Ethics		2
HVAC	20402	HVAC/R Troubleshooting & Certification		2
			Exit: HVAC/R Technology Technical Certificate	37

****Required for Associate of Applied Science in General Technology**