

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 will be able to 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 as well as 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 \$4,440 for tuition and fees and approximately \$1,300 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.
- Correctly complete documentation of appropriate disposal of an appliance that contains refrigerant chemicals.
- Successfully obtain at least one EPA certification.

GRADUATION REQUIREMENTS

(Suggested Schedule)

			<u>Credit Hours</u>
<u>Fall Semester</u>			
HVAC	1014	HVAC/R Fundamentals	4
HVAC	1022	HVAC/R Tubing & Piping	2
HVAC	1033	HVAC/R Schematics	3
HVAC	1044	HVAC Electricity & Control Wiring	4
MAT	2213	Advanced Industrial Math (or higher level mathematics)	3
Exit: Certificate of Proficiency in HVAC/R			(16)
<u>Spring Semester</u>			
COM	1203	Tech Communication (or higher level composition course)	3
COM	1103	Tech Computer Fundamentals (or higher level computer course)	3
HVAC	2013	Heating Technology	3
HVAC	2024	Refrigeration Principles	4
HVAC	2034	Air Conditioning Systems	4
<u>Summer I Term</u>			
COM	1102	Employability Skills/Ethics	2
HVAC	2042	HVAC/R Troubleshooting & Certification	2
Exit: HVAC/R Technology Technical Certificate			37