

Heating, Ventilation, Air Conditioning/Refrigeration (HVAC/R)

Certificate of Achievement

The HVAC/R certificate of achievement prepares individuals for entry-level positions in the heating, ventilation, air conditioning and refrigeration industries. The training focuses on installation, maintenance, troubleshooting and repair of modern equipment used in residential, commercial and industrial buildings throughout Northern Nevada. Emphasizing hands-on training, the program prepares students with the knowledge and skills required for industry-standard certifications and sought by employers.

General Education Requirements

Communications 3 credits
Recommended: ENG 107

Human Relations 3 credits
Recommended: CE 201

Quantitative Reasoning 3 credits
Recommended: MATH 108 or higher

Total General Education Requirements 9 Credits

Core Requirements

AC 102	Refrigeration Theory	3
AC 106	Residential Gas Heating	6
AC 150	Basic Refrigeration Servicing.....	6
AC 200	Commercial Refrigeration I.....	6
AC 205	HVAC Control Systems	4
AIT 110	General Industrial Safety.....	1
MT 102	Fundamentals of Industrial Electricity	3

Total Core Requirements 29 Credits

Elective Requirements

Choose at least three credits from the following:

AC 111	Heat Pumps.....	3
AC 210	Boiler Operation and Maintenance.....	3
AC 295	Internship HVAC Career	3
ELM 134	Programmable Logic Controllers I.....	4

Total Elective Requirements 3-4 Credits

Total Certificate Requirements 41-42 Credits

Suggested Course Sequence

Course #	Title	Credits	
1st Semester - Summer			
Core	AIT 110	General Industrial Safety	1
		Total	1
2nd Semester - Fall			
Core	AC 102	Refrigeration Theory	3
Core	AC 150	Basic Refrigeration Servicing	6
Core	AC 205	HVAC Control Systems	4
Core	MT 102	Fundamentals of Industrial Electricity	3
Quantitative Reasoning	MATH 108	Math for Technicians	3
		Total	19
3rd Semester - Spring			
Core	AC 106	Residential Gas Heating	6
Core	AC 200	Commercial Refrigeration I	6
Human Relations	CE 201	Workplace Readiness	3
Communications	ENG 107	Technical Communications I	3
		Total	18
4th Semester - Summer			
Elective		Choose from list	3
		Total	3
		Certificate Total	41-42