

CERTIFICATE OF ACHIEVEMENT - HEATING, VENTILATION, AIR CONDITIONING/ REFRIGERATION (HVAC/R)

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 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.

Certificate Outcomes

Students completing the certificate will:

- Demonstrate a comprehensive understanding of HVAC/R principles and applications and the skills to work safely and efficiently in the HVAC industry.
- Design residential and commercial HVAC/R systems.
- Gain the knowledge and skills to troubleshoot and repair residential and commercial HVAC/R systems.

Gainful Employment

While all of the educational programs at Truckee Meadows Community College are designed to lead to either employment or transfer, the Department of Education requires that we provide information on specific certificate programs. More information on Gainful Employment (<http://www.tmcc.edu/financial-aid/consumer-information/gainful-employment>) is available on the the TMCC website. We hope this information is helpful to you as you make your career and educational choices.

Certificates of Achievement are a set of courses within an AAS degree that can serve as a stepping stone to an AAS degree or allow students to enter the workforce. Certificates of Achievement have a general education component.

To earn a Certificate of Achievement, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 semester credit hours within the college.
3. Satisfy General Education requirements for the AAS (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>).
4. Have no financial or library obligation to the college.

General Education Requirements

Communications 3

Human Relations 3

Recommended:

CE 201 Workplace Readiness

Mathematics 3

Certificate Requirements

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AC 102	Refrigeration Theory	3
AC 107	Electrical and Controls for HVAC	6
AC 150	Basic Refrigeration Servicing	6
OSH 222	General Industry Safety	1
Elective Requirements		
Select 6 units from the following:		6
AC 106	Residential Gas Heating	
AC 111	Heat Pumps	
AC 121	Sheet Metal I	
AC 200	Commercial Refrigeration I	
AC 210	Boiler Operation and Maintenance	

Total Units 31

Course	Title	Units
1st semester		
AC 102	Refrigeration Theory	3
AC 107	Electrical and Controls for HVAC	6
	Communications ¹	3
	Mathematics ¹	3
OSH 222	General Industry Safety	1
Semester Total		16
2nd semester		
AC 150	Basic Refrigeration Servicing	6
	Electives ²	6
	Human Relations ²	3
Semester Total		15
Total Units		31

¹ See approved General Education list for the AAS Degree. (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>)

² See program recommendations or requirements.