

Occupational Endorsement Certificate in Refrigeration and Heating

This program is delivered only through Matanuska-Susitna College.

The Occupational Endorsement Certificate (OEC) in Refrigeration and Heating prepares students with the technical skills required to install, diagnose, and repair modern commercial and residential heating, ventilation, air-conditioning, and refrigeration (HVAC/R) systems.

Admission Requirements

- Complete the Admission Requirements for Occupational Endorsement Certificates (<http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/>).

Graduation Requirements

- Complete the General University Requirements for Occupational Endorsement Certificates (<http://catalog.uaa.alaska.edu/undergraduateprograms/oecrequirements/>).
- Complete the following major requirements with a minimum grade of C:

Code	Title	Credits
RH A101	Refrigeration and Air Conditioning I	4
RH A105	Electrical Circuits for Refrigeration and Heating	3
RH A107	Fundamentals of Heating	4
RH A109	HVAC/R Codes	1
RH A122	Refrigeration and Air Conditioning II	4
RH A124	HVAC/R Distribution Systems	4
RH A126	HVAC/R Control Systems	3
RH A132	HVAC/R Troubleshooting Essentials	1
Total		24

A minimum of 24 credits are required for the degree.

Program Student Learning Outcomes

Students graduating with an Occupational Endorsement Certificate in Refrigeration & Heating will be able to:

- Apply the fundamental laws of physics related to the Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) industry.
- Understand and describe the function of individual components that make up HVAC/R systems.

- Work safely with tools, torches, electricity, refrigerants, heating fuels, and other equipment and material associated with HVAC/R work.
- Follow work practices that are environmentally responsible.
- Systematically troubleshoot HVAC/R systems.
- Apply municipal, state, and national mechanical codes to decisions involving the design, installation, operation, and maintenance of HVAC/R systems.