Occupational Endorsement Certificate in Residential and Light Commercial Heating and Ventilation

This program is delivered only through Matanuska-Susitna College.

Admission Requirements

Satisfy the Application and Admission Requirements for Occupational Endorsement Certificate Programs (http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate).

Advising

Students are urged to meet with a faculty advisor prior to enrollment in RH classes.

Certain courses require prerequisites or faculty permission. See an advisor for information on the recommended course sequence.

Graduation Requirements

• Satisfy the General University Requirements for Occupational Endorsement Certificates (http://catalog.uaa.alaska.edu/undergraduateprograms/oecrequirements).

• Complete the Program Requirements below.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH A203</td>
<td>HVAC/R Basic Controls</td>
<td>3</td>
</tr>
<tr>
<td>RH A211</td>
<td>Customer Relations and Job Etiquette</td>
<td>1</td>
</tr>
<tr>
<td>RH A225</td>
<td>Heating Fundamentals and Forced Air Heat</td>
<td>4</td>
</tr>
<tr>
<td>RH A226</td>
<td>Commercial HVAC/R Systems</td>
<td>4</td>
</tr>
<tr>
<td>RH A228</td>
<td>Advanced Hydronic Heat Systems</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

A total of 16 credits is required for the certificate.

Program Student Learning Outcomes

Students graduating with an Occupational Endorsement Certificate in Residential and Light Commercial Heating and Ventilation will be able to:

• Describe the function of individual components that make up HVAC systems.

• Work safely with tools, torches, electricity, refrigerants, heating fuels, and other equipment and materials associated with HVAC work.

• Follow work practices that are environmentally responsible.

• Obtain employment as an entry-level HVAC technician and be able to advance professionally.

• Work effectively with customers, employers, and co-workers.

• Systematically troubleshoot HVAC systems.

• Apply municipal, state, and national mechanical codes to decisions involving the design, installation, operation, and maintenance of HVAC systems.

• Apply the fundamental laws of physics to heating, ventilation, and air conditioning (HVAC) systems.

• Use mathematical skills required to succeed in HVAC trades.