HVAC Program Alignment – Kansas Board of Regents
CIP: 47.0201

HVAC Technician
- OSHA 10 Card
- Entry Level Credential in one of the following (see page 2):
  - ICE (Industry Competency Exam)
  - NATE (North American Technician Excellence)
  - HVAC Excellence
  - NCCER (National Center for Construction Education and Research)

Certificate B
Maximum of 44 Credit Hours

HVAC Degree
- Certificate B Requirements
- Minimum of 15 Credit Hours of General Education

A.A.S.
Maximum of 67 Credit Hours for State Funding

Required Courses within Program

<table>
<thead>
<tr>
<th>Common Courses</th>
<th>14-16 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC Fundamentals</td>
<td>4 credits</td>
</tr>
<tr>
<td>Heating System Fundamentals</td>
<td>3 credits</td>
</tr>
<tr>
<td>Electrical Fundamentals</td>
<td>4 credits</td>
</tr>
<tr>
<td>Workplace Skills</td>
<td>1 credit</td>
</tr>
<tr>
<td>EPA 608</td>
<td>1 credit</td>
</tr>
<tr>
<td>Safety Orientation/OSHA 10 or 30</td>
<td>1-3 credits</td>
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</tbody>
</table>

Course list sequence has no implication on course scheduling by colleges.

Institutions may add additional competencies based on local demand.
Institutions may choose one of the following four credentialing options:

ICE – Completion of one of the following Credential options:
- Core + Residential Air Conditioning and Heating OR
- Light Commercial Air Conditioning and Heating OR
- Commercial Refrigeration

OR

NATE - Credential Core Areas + minimum of one specialty area in Installation or Service which may include:
- Air Conditioning
- Air Distribution
- Air-to-Air Heat Pumps
- Gas Furnaces
- Oil Furnaces
- Hydronics Gas
- Light Commercial Refrigeration
- Commercial Refrigeration
- Ground Source Heat Pump Loop Installer

OR

HVAC Excellence – Credential Core Areas (Electrical & Refrigeration Theory) + minimum of one of the following areas:
- Air Conditioning, Gas Heat, & Electrical
- Light Commercial Air Conditioning, Gas Heat, & Electrical
- Light Commercial Refrigeration & Electrical

OR

NCCER - Credential Core Areas + Completion of Level 1 & 2 Competencies

Institutions may add an HVAC A.A.S. degree (maximum of 67 credits) that requires completion of the requirements for a Certificate B AND requires a minimum of 15 Credit Hours of General Education.