

Heating Ventilation and Air Conditioning (HVAC) Program Alignment

CIP: 47.0201 - Kansas Board of Regents

2022

Implement by
Fall 2024

HVAC - Level 1

- All Common and Support Courses (13-16 hours)
- Certifications:
 - OSHA 10 or 30
 - EPA 608

Certificate A
16-29 Credit Hours

HVAC - Level 2

- Certificate A requirements +
- 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
30-44 Credit Hours

OR

Certificate C
45-59 Credit Hours

HVAC Degree

- Certificate B or C Requirements +
 - Minimum of 15 Credit Hours of General Education

A.A.S.
60-68 Credit Hours

Required Courses within Program

<u>Common Courses</u>	8 credits:
HVAC Fundamentals	4 credits
Heating System Fundamentals	3 credits
EPA 608	1 credit
<u>Support Courses*</u>	5-8 credits:
Electrical Fundamentals	3-4 credits
Safety Orientation/OSHA 10 or 30	1-3 credits
Workplace Skills	1 credit

Notes

Specifics pertaining to HVAC programs:

1. Title must include HVAC and may also include:
 - Refrigeration and/or
 - Climate and Energy Control
2. Course list sequence has no implication on course scheduling by colleges.
3. Institutions may add additional competencies based on local demand.
4. *Institutions may use existing course titles for Support Courses that adhere to the agreed upon course length and competencies.

Certificate B or C

Institutions may choose one of the following four credentialing options:

ICE - Completion of one of the following Credential options:

- Residential: CORE + At least one speciality (Air Conditioning, Air Distribution, Heat Pumps, Gas Furnaces, or Oil Furnaces).
- Light Commercial Air Conditioning and Heating: including Start-up Heating, Start-up Air Conditioning, Service Heating, Refrigerant Recovery, and Installation.
- Commercial Refrigeration: including System Design, Installation Start-up, Preventative Maintenance, and Service & Repair.

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 Heating (Air)
- Oil Heating (Air)
- Hydronics Gas
- Hydronics Oil
- Light Commercial Refrigeration
- Commercial Refrigeration

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



A.A.S.

Institutions may add an HVAC A.A.S. degree (maximum of 68 credits) that requires completion of the requirements for a Certificate B OR C **AND** requires a minimum of 15 Credit Hours of General Education.