

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

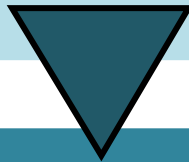
OR

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.