

Heating Ventilation and Air Conditioning (HVAC) Program Alignment – CIP: 47.0201

Effective: Fall 2024

Issued 1/26/23



Certificate A

16-29 Credit Hours

HVAC Level 1

- All Common and Support Courses
- Certifications:
 - OSHA 10 or 30
 - EPA 608

Certificate B

30-44 Credit Hours

OR

Certificate C

45-59 Credit Hours

HVAC Level 2

- Certificate A Requirements
- Entry Level Credential in one of the following (see page 2):
 - NATE (*North American Technician Excellence*)
 - HVAC Excellence
 - NCCER (*National Center for Construction Education and Research*)

A.A.S.

60-68 Credit Hours

HVAC Degree

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

Required Courses within Program

Common Courses **8 credits:**

HVAC Fundamentals 4 credits

Heating System Fundamentals 3 credits

EPA 608 1 credit

Support Courses* **5-8 credits:**

Electrical Fundamentals 3-4 credits

Safety Orientation/OSHA 10 or 30 1-3 credits

Workplace Skills 1 credit

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

Institutions may add additional competencies based on local demand.

**Institutions may utilize existing like course titles for Support Courses that adhere to the agreed upon course lengths.*

Notes

Specifics pertaining to HVAC programs:

1. Title must include HVAC and may also include:
 - Refrigeration *and/or*
 - Climate and Energy Control

Certificate B or C

Institutions may choose one of the following three credentialing options:

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.

