

HEATING, VENTILATION AND AIR CONDITIONING 47.0200.00

Program Description, Industry Credential, Coherent Sequence, and Teacher Certification

PROGRAM DESCRIPTION

The **Heating, Ventilation and Air Conditioning** program prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. The **Heating, Ventilation and Air Conditioning** program includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

The **Heating, Ventilation and Air Conditioning** program is delivered as a coherent sequence of courses designed to offer students knowledge and skills that meet the need of the workplace. The Professional Skills developed by business and industry leaders across Arizona are integrated throughout the program. Students learn how to get along with their team members, to make critical decisions, to solve problems, to develop respect, and to be successful in their chosen occupation. **Heating, Ventilation and Air Conditioning** students also develop leadership, social, civic, and career skills through their participation in the state-recognized Career and Technical Student Organization SkillsUSA.

The **Heating, Ventilation and Air Conditioning** instructional program prepares students for entry-level employment, further training, and/or post-secondary education for these and other occupations: Heating, Air Conditioning, and Refrigeration Mechanics, Heating, Air Conditioning, and Refrigeration Installers

INDUSTRY CREDENTIALS

The following credentials have been approved for the A-F CCR and are CTED eligible for the **Heating, Ventilation and Air Conditioning** instructional program:

- National Center for Construction Education and Research (NCCER) - Core
- National Center for Construction Education and Research (NCCER) - HVAC - Level 1
- National Center for Construction Education and Research (NCCER) - HVAC - Level 2
- OSHA 10 - Construction Industry

COHERENT SEQUENCE

47.0200.10 - Heating, Ventilation and Air Conditioning I, **and**

47.0200.20 - Heating, Ventilation and Air Conditioning II, **and program may elect to add:**

47.0200.25- Heating, Ventilation and Air Conditioning III, **or**

47.0200.40 - Heating, Ventilation and Air Conditioning IV, **or**

47.0200.70 - Heating, Ventilation and Air Conditioning – DCE (Diversified Cooperative Education) **or**

47.0200.75 - Heating, Ventilation and Air Conditioning – Internship **or**

47.0200.80 - Heating, Ventilation and Air Conditioning – Cooperative Education

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TEACHER CERTIFICATION REQUIREMENTS

The instructor must be ADE/CTE certified in one of the following Certificates: PCTIET, SCTIET, or SSCTEET

Note:

- Heating, Ventilation and Air Conditioning 47.0200.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN).
- Heating, Ventilation and Air Conditioning 47.0200.75 is not required to have a Cooperative Education Endorsement (CEN).
- Heating, Ventilation and Air Conditioning 47.0200.80 is required to have a Cooperative Education Endorsement (CEN).

CERTIFICATE TYPES

PCTIET	Provisional Career and Technical Education Industrial and Emerging Technologies
SCTIET	Standard Career and Technical Education Industrial and Emerging Technologies
SSCTEET	Standard Specialized Career and Technical Education Industrial and Emerging Technologies