

Heating, Ventilation, and Air Conditioning Technology Certificate

The certificate program is designed to prepare HVAC graduates for the HVAC job skills needed to service and maintain heating and air conditioning equipment. Students who elect to complete the certificate learn the theory of operation, how to service, repair and design gas furnaces, central air conditioners, heat pumps, rooftop systems. The instructional format is reinforced by working on actual equipment in the laboratory. By completing this program, it will allow students to seek employment in the HVAC trade.

Suggested/Sample Course Sequence

The sequence taken by the student may vary depending on prerequisites, course availability, and personal/ professional responsibilities.

(Major Code 6230; State CIP Code 47.0201)

- Heating, Ventilation and Air Conditioning Technology (<http://www.jccc.edu/academics/industrial-technology/hvac>)
- Gainful Employment Data (<http://www.jccc.edu/academics/industrial-technology/hvac/gainful-employment/Gedt.html>)

First Semester

HVAC 105	HVAC Fundamentals	4
HVAC 110	Electrical Fundamentals	4
HVAC 136	Heating System Fundamentals	3
HVAC 164	EPA 608 Refrigerant Management	1
HVAC 167	Sheet Metal Layout and Fabrication	3
INDT 155	Workplace Skills	1
Total Hours		16

Second Semester

INDT 125	Industrial Safety/OSHA 30	3
HVAC 188	Load Calculation and Duct Design	3
HVAC 201	Cooling Systems*	3
HVAC 250	HVAC Installation and Start-up Procedures*	3
HVAC 278	Advanced Electrical Systems*	3
HVAC 280	HVAC Internship*	1-3

Note: Only a 1 credit hour internship is required for the certificate program.

Total Hours		16-18
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Total Program Hours: 32-34