

HVAC Commercial Service Technician Certificate

The postsecondary certificate program is designed to prepare you for the basic job skills needed to service and maintain heating and air conditioning equipment. Students who elect the facilities maintenance technician certificate option learn the theory of operation and how to service, repair and design rooftop air conditioners, cooling towers, steam boilers and commercial systems air conditioners. This knowledge is reinforced by working on actual equipment in the laboratory. Completion of this program will allow the student to seek employment as a commercial maintenance and service technician in the heating/air conditioning trade.

Suggested/Sample Course Sequence

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

(Major Code 6250; State CIP Code 47.0201)

- Gainful Employment -HVAC (<http://www.jccc.edu/hvac/ge-hvac.html>)
- HVAC (<http://www.jccc.edu/hvac>)

Fall Semester

ENGL 121	Composition I*	3
HVAC 121	Basic Principles of HVAC*	4
HVAC 123	Electromechanical Systems	4
MATH 115	Elementary Algebra*	3
Total Hours		14

Spring Semester

HVAC 150	Refrigerant Management and Certification	1
HVAC 231	HVAC Rooftop Units*	3
HVAC 221	Commercial Systems: Air Conditioning*	4
HVAC 155	Workplace Skills	1
HVAC 143	Reading Blueprints and Ladder Diagrams	2
Total Hours		11

Fall Semester

HVAC 229	Advanced Control Systems*	4
HVAC 167	Sheet Metal Layout and Fabrication	3
HVAC 223	Commercial Systems: Heating*	4
INDT 125	Industrial Safety/OSHA 30	3
Total Hours		14

Total Program Hours: 39