

# HEATING, VENTILATION & AIR CONDITIONING (HVAC) - CERT C

The Heating Ventilation and Air Conditioning (HVAC) Cert C program presents technical training to students in the areas of electricity, heating, residential air conditioning, refrigeration, sheet metal fabrication, residential installation practices, HVAC troubleshooting skills, direct digital controls (DDC) & commercial HVAC applications. This program provides students with industry credentialing in the areas of refrigerant handling safety, job site safety, tool usage, residential HVAC and basic commercial HVAC. Foundational skills and principles learned in this program prepare students to work in the commercial and residential HVAC industry. This program will offer students preparation to test for the industry-recognized credentials listed below.

The Washburn Tech HVAC program is in alignment with the National Center for Education Statistics (NCES) CIP Code 47.0201: Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/ Technician. A program that prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. 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.

## Program Information

- Program Start (semesters): August
- Industry-recognized credentials: EPA 608; OSHA 10 - Construction; Low GWP Refrigerant Safety; NCCER Core; NCCER HVAC Level I and II

## Certificate Requirements

Code	Title	Hours
CEC 111	Introduction to HVACR	3
CEC 115	Electrical Fundamentals	4
CEC 120	Heating System Fundamentals	4
CEC 105	Workplace Skills	1
CEC 205	HVAC Fundamentals	5
CEC 210	EPA 608	1
CEC 212	HVAC Installation	3
CEC 214	HVAC Services & Diagnostics	3
CEC 215	Intro Mechanical Refrigeration	6
CEC 225	Heat Pumps & VRF	6
CEC 230	Commercial HVAC Level I	6
CEC 235	Commercial HVAC II	6
<b>Total Hours</b>		<b>48</b>