



HVACR Technology

at Walla Walla Community College

www.wwcc.edu/energy

The Program

The HVACR Technician installs, maintains, and repairs heating, ventilating, air-conditioning and refrigeration systems in residential, commercial, and industrial sites. WWCC's HVACR training program is nationally accredited offering a two-year degree and a one-year certificate. Students exit the program with related certifications in entry-level positions covering safety, electrical theory, refrigeration basics and components, applied wiring, air conditioning systems, controls, electric motors, duct design and installation, heating systems, industrial refrigeration, electronics, national electrical code, programmable logic controllers and direct digital controls, and commercial refrigeration. The HVACR curriculum is reviewed by an advisory committee composed of local and regional industry members and adheres to national and state skill standards.

WWCC's Degree Options

An Associate in Applied Arts and Sciences (AAAS) in Heating Ventilating Air-Conditioning and Refrigeration is available upon completion of the two-year program of study. Also, the Heating & Air Conditioning Certificate is available upon completion of the one-year program of study.

Career Opportunities

- Test And Balance (TAB) Technician
- HVAC Installer, Service, Maintenance Technician
- Indoor Air Quality (IAQ) Technician
- Environmental Control Technician, Energy Auditor
- DDC Controls Technician
- Sheet Metal Worker
- Specialty Electrician
- Boiler Operator & Refrigeration Mechanic
- Refrigeration Mobile Service Technician (Railroad, Transport, Sea)
- Marine Service HVACR Technician



For More Information

Mike Houdak • (509) 527-4252 • michal.houdak@wwcc.edu

Walla Walla Community College ... *Your Best Choice*

HVACR Technology

Required Coursework for Heating & Air Conditioning Certificate and HVACR AAAS Degree

The actual order and specific coursework may vary depending on student placement, start date, and quarter. Please check with your advisor prior to any substitutions.

Fall Quarter

Course #	Course Name	Credits
EST 100	Refrigeration Basics I	4
EST 131	Principles of Electricity Theory	5
EST 144	Industrial Safety in the Workplace	3
OCSUP 107	Quantitative Problem Solving for the Trades II (M) or ***OCSUP 105 or OCSUP 106	5
IFA 022	AHA HeartSaver First Aid	0.4
Total Credits		17.4

Winter Quarter

EST 101	Refrigeration Basics II	4
EST 110	Refrigeration Components	5
EST 130	Electricity for HVACR**	5
EST 192	Human Relations Seminar (R)	2
Total Credits		16

Spring Quarter

EST 120	Air Conditioning Systems & Heating Systems	5
EST 133	Introduction to Controls	5
EST 150	Electric Motors & Motor Maintenance	5
WRITE 100	Writing in the Workplace (W)	3
Total Credits		18
Year One Credits		51.4

Total Certificate Credits 51.4

Summer Quarter

Course #	Course Name	Credits
EST 191	Cooperative Training*	2-12
Total Credits		2-12

Fall Quarter

Course #	Course Name	Credits
EST 263	Electric Heat, Heat Pumps	4
EST 220	Intro to Ammonia Refrigeration	3
EST 292	Leadership Seminar (L)	2
OCSUP 102	Oral Communication in the Workplace (O)	3
EST 291	Cooperative Training	4
Total Credits		16

Winter Quarter

EST 250	Intro to PLC and DDC Control	5
EST 264	Fossil Fuel Heating and Boilers	4
EST 265	Commercial Refrigeration I	4
EST 260	Intro to the National Electrical Code	2
EST 291	Cooperative Training	3
Total Credits		18

Spring Quarter

EST 225	Commercial Air Conditioning Systems	4
EST 266	Commercial Refrigeration II	4
EST 109	Orientation to the Energy Industry (J)	3
EST 291	Cooperative Training	3
Total Credits		14
Year Two Credits		48

Total Degree Credits 99.4
Degree With options - 111.4

Air Conditioning Certificate can be earned by completing first 3 quarters of program. Degree can be earned after completing all identified courses.

*EST 191 Cooperative Training may be taken in addition to EST 291 series as determined by EST instructor and with Dean permission.

**EST 132 may substitute for EST 130

***For certificate completion only, not for degree

The following courses can be substituted for identified related instruction courses.

(W) Written Communications:	ENGL 087 or Higher
(M) Math:	MATH& 141, MATH 201
(O) Oral Communications:	CMST& 220
(J) Jobs:	AGPR 100 or OCSUP 103
(R) Human Relations:	Any 192 course, OCSUP 101, PSYCH 100
(L) Leadership:	Any 292 course

Walla Walla Community College does not discriminate on the basis of race, color, national origin, sex, disability or age in programs and activities.