



GET COOL TRAINING
FOR A HOT CAREER

Heating, Ventilation & Air Conditioning (HVAC)

[CONSTRUCTION]



Self-starters who enjoy new challenges will quickly warm up to a career in climate and energy control technologies, traditionally known as HVAC training. Washburn Tech will give you the knowledge and skills to repair, service and maintain heating and cooling systems both in large commercial and residential settings.

LEARNING AT WASHBURN TECH

The program operates out of the Midwest Training Center, a state-of-the-art facility in partnership with Trane, Snap-on and the National Coalition of Certification Centers. You will study electricity, heating, residential air conditioning, refrigeration, sheet metal fabrication, direct digital controls (DDC) and commercial HVAC applications. You can leave with industry credentials in the areas of refrigerant handling safety, tool usage and control systems. Full-day students can finish this program in two semesters while half-day students can complete in four semesters. Upon completion, you will earn a 43-credit hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

JOB AND SALARY OUTLOOK

Employment in this field is projected to grow by 5 percent from 2020 to 2030, with the growing

number of sophisticated climate-control systems expected to increase demand for qualified HVAC technicians. According to the Kansas Department of Labor, the average salary for an entry-level HVAC position is \$19.79 or \$41,155 annually. The average wage is \$24.50 an hour or \$50,960 annually.

ENTRY REQUIREMENTS

Students are required to take the Accuplacer and score a 5 in both reading and math. Other assessments or college coursework can be accepted in place of the Accuplacer. See an admissions counselor for details. You also must complete an application and submit an official copy of your transcripts.

CERTIFICATIONS

- + ICE Core + Residential
- + EPA 608
- + OSHA-10

Build your best self.

TALK TO AN ADMISSIONS COUNSELOR TODAY!

785.670.2200

CAREERS IN HVAC »

- + residential
- + commercial
- + industrial
- + sales
- + solar technician
- + wind turbine tech
- + systems designer
- + service manager



COURSE DESCRIPTIONS

WORKPLACE SKILLS

Gain job skills that lead to a successful career

SAFETY ORIENTATION/OSHA

Covers OSHA standards relevant to construction

ELECTRICAL FUNDAMENTALS

Covers basic electrical theory for DC and AC systems

ELECTRICAL FUNDAMENTALS II

Introduces motor theory and applications; requires a firm understanding of magnetism/voltage production

HEATING SYSTEM FUNDAMENTALS

Covers combustion and how it is applied in HVAC trade

ADVANCED ELECTRICAL THEORY FOR HVAC

Continuation of Electrical Fundamentals; places an emphasis on developing systemic diagnosis and troubleshooting methods and procedures

ADVANCED HEATING SYSTEMS

Introduces electric furnaces and hydronic heating with emphasis on electrical systems and code requirements

SHEET METAL FABRICATION I

Focuses on sheet metal fabrication utilizing many tools and techniques

HVAC FUNDAMENTALS

Designed to introduce students to the broader picture that is HVAC; covers trade related organizations and job requirements

HEATING SYSTEM INSTALLATION

Designed to walk students through the requirements of the Uniform Mechanical Code in relation to gas piping and exhaust ventilation

EPA 608

Students will be certified in federal regulations of safe refrigerant handling practices

INTRO TO MECHANICAL REFRIGERATION

Apply knowledge learned in HVAC Fundamentals to ice machines, refrigerators and commercial coolers

HEAT PUMPS

Learn basic functions of various heat pump designs

COMMERCIAL HVAC I & II

Introduces students to the commercial applications of various HVAC systems plus hands-on training



APPLICATION CHECKLIST



**MEET WITH
ADMISSIONS**



**TAKE
ACCUPLACER***



**SUBMIT
TRANSCRIPT(S)**



**PAY
ENROLLMENT
FEE
(ADULT ONLY)**

2023-2024 PROGRAM COSTS (Estimated)

	HIGH SCHOOL	ADULT
Enrollment fee	\$0	\$50
Tuition	*\$304	\$6,536
All other fees	\$255	\$3,854
TOTAL	\$559	\$10,440

*Tiered courses are paid by Excel in CTE. Non-tiered courses are paid by the student.

ADDITIONAL CHARGES** (Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	\$147	\$147

COST NOTE

**A list of required tools/books is on a separate sheet of paper and on our website, WashburnTech.edu. Students also will need to purchase supplies such as (but not limited to) pens/pencils, notebooks/paper, three-ring binder, etc. Students may purchase them at the vendor of their choice.

MORE INFO »

For more programs, enrollment and course schedule information, please contact Admissions. Financial Aid is available to those who qualify.

CALL 785.670.2200

TO TALK W/ ADMISSIONS COUNSELOR