



HVACR CERTIFICATE

PROGRAM THE CERTIFICATE IS A PART OF

Building Maintenance Major

JOB OPPORTUNITIES FOR GRADUATES

There are a number of skilled positions/careers available to students taking this program. Positions held are HVAC technicians, general building maintenance, building and grounds maintenance, and many become contractors.

According to the DOL Bureau of Labor Statistics the job outlook thru 2022 is good. Employment of heating, air conditioning, and refrigeration mechanics and installers is projected to grow 21 percent by 2022, faster than the average for all occupations. Commercial and residential building construction will drive employment growth as the construction industry continues to recover from the recent recession. The growing number of sophisticated climate-control systems is also expected to increase demand for qualified HVACR technicians.

SALARY

The median annual wage for heating, air conditioning, and refrigeration mechanics and installers is \$43,640. The lowest 10 percent earned less than \$27,330, and the top 10 percent earned more than \$68,990.

Apprentices will make less than journeymen make, however they are on a progressive pay scale. Generally apprentices receive pay increases as they progress through their apprenticeship. As apprentices advance in their skills and are capable of working with limited supervision their rate of pay reflects that knowledge and skill advancement.

LOCATION

Toledo-area Campus

For gainful employment data, visit www.owens.edu/gainful-employment/gedt-15.0501.html

REQUIRED COURSES

The Age of Coursework for Skilled Trades (SKT) courses is 6 years - chair approval required for courses beyond that. Please refer to College Policy, Chapter 2 - Academic, 3358:11-2-22 Age of Coursework Policy.

Technical courses may be selected from but are not limited to the classes listed, based on department approval.

MTH 151	Applied Algebra	Credits: 2(Lec: 2)
MTH 152	Applied Geometry/Trig	Credits: 2(Lec: 2)
SKT 122	Elec Printreading & Control	Credits: 2(Lec: 1.50 Lab: 1.50)
SKT 170	Maintenance Electricity	Credits: 3(Lec: 3)
SKT 176	Electricity: HVACR Principles	Credits: 2(Lec: 1 Lab: 3)
SKT 158	Refrigeration - A/C Principles	Credits: 3(Lec: 3)
SKT 165	Gas Heating Principles	Credits: 2(Lec: 1 Lab: 3)
SKT 167	Psychrometrics	Credits: 2(Lec: 1 Lab: 3)
SKT 206	HVACR: Service Application	Credits: 2(Lec: 1 Lab: 3)
SKT 244	HVACR System Troubleshooting	Credits: 2(Lec: 1 Lab: 3)

COURSE ELECTIVES

Select 7 credits from Course Electives listed:

SKT 132 - Electrical Prints: Controls	Credits: 2(Lec: 2)
SKT 145 - Building Print Reading	Credits: 2(Lec: 2)
SKT 150 - Piping Systems	Credits: 3(Lec: 3)
AIM 140 - Blueprint Reading for Industry	Credits: 2(Lec: 2)
SKT 166 - Oil/Electric Heat Principles	Credits: 2(Lec: 1 Lab: 3)
SKT 181 - Motor Control Systems: I	Credits: 2(Lec: 1.50 Lab: 1.50)
SKT 187 - Resid & Comm Mech Code	Credits: 2(Lec: 2)
SKT 195 - Low/High Pressure Boiler	Credits: 4(Lec: 4)
SKT 240 - Advanced Refrigeration	Credits: 2(Lec: 1 Lab: 3)
SKT 237 - Maintenance Tools/Equipment	Credits: 3(Lec: 3)
SKT 121 - Industrial Communications	Credits: 2(Lec: 2)
SKT 115 - Construction Estimating	Credits: 2(Lec: 2)
WLD 191 - Intro to the Welding Processes	Credits: 2(Lec: 1 Lab: 3)

For more information, visit www.owens.edu or call:

Office of Admissions

Toledo-area Campus - (567) 661-7777
Findlay-area Campus - (567) 429-3509

School of Science, Technology, Engineering
and Mathematics
(567) 661-7457



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