



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

ABOUT THE DANA CENTER

Owens Community College continues to fulfill its mission as the region's workforce education leader by responding to labor market needs and expanding opportunities with the creation of the Dana Advanced Manufacturing Training Center, the renovated 59,000-square-foot, \$9.6 million facility focused on producing job-ready, skilled workers for in-demand careers in skilled trades and advanced manufacturing. The Dana Center's design provides highly technical and integrated training in a modernized setting with amenities including natural lighting, glass walls and polished floors – a clean and safe environment conducive to learning.

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 143	Applied Industrial Mathematics	Credits: 3(Lec: 3)
SKT 131	Electrical Prints	Credits: 3(Lec: 3)
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	HVAC Design & Application	Credits: 2(Lec: 1 Lab: 3)
SKT 197	Sheet Metal Fabric/Layout	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)
SKT 145	Building Print Reading	Credits: 3(Lec: 3)

COURSE ELECTIVES

Select two courses from the Course Electives listed:

SKT 240	Light Commercial Refrigeration	Credits: 2(Lec: 1 Lab: 3)
SKT 211	Chiller Operations	Credits: 3(Lec: 3)
SKT 242	HVACR Control Systems I	Credits: 2(Lec: 1 Lab: 3)
SKT 128	Building Energy Management	Credits: 2(Lec: 2)

OWENS.EDU

Office of Admissions

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

**School of Science, Technology, Engineering
 and Mathematics**
 (567) 661-7169



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 COMMUNITY COLLEGE