



TOOL AND DIE/MOLDMAKER CERTIFICATE

PROGRAM THE CERTIFICATE IS A PART OF

Mechanical Major

JOB OPPORTUNITIES FOR GRADUATES

There are a number of skilled positions/careers available to students taking this program. Positions held are tool & die, machinist, tool maker, die maker, mold maker, CNC machinist, CAM/CNC Programmer, and CNC Operator.

According to the DOL Bureau of Labor Statistics the job outlook thru 2022 is good. Employment for plumbers is projected to grow 21% 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. Demand for plumbers will stem from new building construction and stricter water efficiency standards for plumbing systems, such as low-flow toilets and showerheads. Adding to the growth will be construction of new power plants, factories and new regulations governing sprinkler systems.

SALARY

The median hourly wage for tool and die makers and moldmakers is \$22.60. The lowest 10 percent earned less than \$15.16 per hour, and the top 10 percent earned more than \$33.44 per hour. While CNC operators make slightly less, they are not required to have as much overall knowledge to perform their jobs. Many CNC operators expand their skills and knowledge to become tool & die or moldmakers.

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

***High school and adult career-technical students who successfully complete specified technical programs are eligible to have technical credit transfer. For more information on career-technical course work that students can complete for transfer, visit The University System of Ohio Board of Regents, Career-Technical Credit Transfer (CT)² website or contact your advisor.*

MTH 143	Applied Industrial Mathematics	Credits: 3(Lec: 3)
SKT 143	Drftg/Blueprint Reading:3D	Credits: 3(Lec: 2 Lab: 2)
CAM 160	Machining I	Credits: 2(Lec: 1 Lab: 3)
CAM 161	Machining II	Credits: 2(Lec: 1 Lab: 3)
CAM 122	CNC Mill Applications	Credits: 2(Lec: 1 Lab: 3)
CAM 124	CNC Lathe Applications	Credits: 2(Lec: 1 Lab: 3)
CAM 120	Modern Manufacturing Processes	Credits: 3(Lec: 3)

COURSE ELECTIVES

Select 6 to 8 Credit Hours from the list.

CAM 126	Advanced CNC Applications	Credits: 2(Lec: 1 Lab: 3)
CAM 216	Basic CAD/CAM	Credits: 2(Lec: 2)
CAM 218	Advanced CAD/CAM	Credits: 2(Lec: 1 Lab: 3)
WLD 191	Intro to the Welding Processes	Credits: 2(Lec: 1 Lab: 3)
STM 105	Technology in Society	Credits: 2(Lec: 2)
MET 130	Material Science	Credits: 3(Lec: 2 Lab: 3)
ENV 110	OSHA General Safety	Credits: 3(Lec: 3)

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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