

# ADVANCED MANUFACTURING

OCCUPATION OUTLOOK IN MICHIGAN, 2023

## WHAT OPPORTUNITIES ARE AVAILABLE?

Advanced manufacturing jobs range from assembly and production, to skilled trades and technicians, to designers and engineers and more. Occupations encompassed in advanced manufacturing include First-line Supervisors of Production and Operating Workers, Industrial Machinery Mechanics, Electrical and Electronics Engineering Technologists and Technicians, Industrial Engineering Technologists and Technicians, and Tool and Die Makers, along with Maintenance and Repair Workers, General.

**112,243  
WORKERS  
EMPLOYED**

## HOW MUCH COULD I EARN?

	ENTRY	MEDIAN	EXPERIENCED
Electrical and Electronic Engineering Technologists and Technicians	\$21.78	\$29.82	\$48.13
Industrial Engineering Technologists and Technicians	\$17.87	\$29.02	\$37.39
Industrial Machinery Mechanics	\$17.97	\$28.42	\$37.24
Maintenance and Repair Workers, General	\$13.54	\$18.23	\$29.10
First-Line Supervisors of Production and Operating Workers	\$18.35	\$29.61	\$47.95
Tool and Die Makers	\$18.31	\$29.28	\$37.18

## RELATED CAREER PROFILES (Industrial Machinery Mechanics )



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## WHAT EDUCATION & SKILLS WILL I NEED?

Advanced manufacturing occupations typically require a high school diploma or equivalent for entry. Technical roles like Tool and Die Makers or engineering technicians require an associate degree or postsecondary non-degree award coupled with long-term on-the-job training. Comparatively, 45.6% of postings require a high school education, and an HVAC certification is a highly demanded qualification.

## WHAT AREAS OF STUDY SHOULD I CONSIDER?

In 2021, there were 5,473 advanced manufacturing-related educational program completions, with the Electrical, Electronic and Communications Engineering Technology educational program having the highest completion number. Other programs that had high completion numbers are the Industrial Mechanics and Maintenance Technology program and Industrial Production Technologies/Technicians, Other program.

## WHAT SKILLS SHOULD I DEVELOP?

- Plumbing
- HVAC
- Machinery
- Preventive Maintenance
- Carpentry
- Hand Tools
- Painting
- Housekeeping
- Hydraulics
- Field Service Management
- Communications
- Troubleshooting (Problem Solving)
- Operations
- Management
- Customer Service

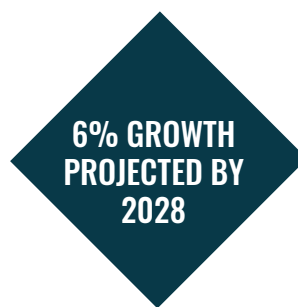
## WHAT QUALIFICATIONS SHOULD I PURSUE?

- Valid Driver's License
- HVAC Certification
- Commercial Driver's License (CDL)
- Automotive Service Excellence (ASE) Certification
- EPA 608 Technician Certification
- Forklift Certification
- Pesticide Applicator License
- Chauffeur License

## WHAT ELSE SHOULD I KNOW?

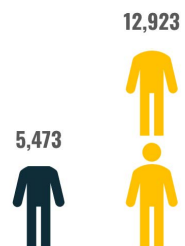
General Maintenance and Repair Worker positions are often available to entry-level workers. Working in maintenance can help provide hands-on learning experiences to build the skills necessary when seeking credentials to become an industrial machinery mechanic or tool and die maker. Salary approximations for advanced manufacturing occupations can range from \$28,000 to over \$101,000.

## IS THIS FIELD EXPECTED TO GROW?



↑ 2021 Program  
Completions

↑ 2022 Job  
Openings



## HOW DO I GET STARTED?

For more information on how to start your career in advanced manufacturing visit [www.winintelligence.org](http://www.winintelligence.org).

