



# OCCUPATION SUMMARY

This occupation involves applying mechanical engineering principles to develop, modify, test, and adjust machinery or equipment under the guidance of engineers or scientists. Workers interpret technical drawings, calculate system capacities, review project specifications, and conduct tests to troubleshoot and refine designs. They also assemble or disassemble complex systems and provide technical support for mechanical design, fabrication, testing, and documentation. Learn more at onetonline.org

# **JOB TITLES**

The Mechanical Engineering Technologists and Technicians occupation refers to the entire industry in which someone works. Some examples of specific job titles for this occupation include:

- Mechanical Technicians
- Engineering Analysts
- Mechanical Inspectors
- Engineering Technicians
- Mechanical Test Technicians

# Debt-free training and additional support may be available to jobseekers and those currently employed in this career

Contact your local Michigan Works! Agency to learn more

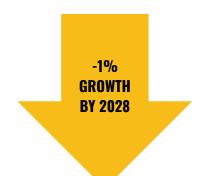
Odnitaci yo	di 100ai <b>micingan work</b>	s. Agency to learn	IIIOIC		
micl	higanworks.org/michiga	n-works-network			
	9 (11)			6	Con
Jackson	MOTT COMMUNITY COLLEGE  MONROE COUNTY COMMUNITY COLLEGE  **TECKING USES  **TEC	LANSING COMMUNITY COLLEGE	Community College	WORKS!	CAP MIC WA
HENRY FORD Community Coll Discover. Connect. Add	Community	choolcraft OAKLAN COMMU	NITY VVI TRING	Oakland County MICHIGAN WATERKS!	SEMCA MICHIGAN WORKS!

# AVERAGE WAGE IN MICHIGAN

	Entry	Median	Experienced
Hourly	\$17.63	\$29.80	\$45.08
Annually	\$36,670	\$61,984	\$93,766

#### OCCUPATIONAL GROWTH

Projected to decrease in growth (-1%); 740 annual job openings are predicted.



WORKS!

# MECHANICAL ENGINEERING TECHNOLOGISTS AND TECHNICIANS WINTERLIGENCE INTELLIGENCE INT



# EARN WHILE YOU LEARN: REGISTERED APPRENTICESHIP

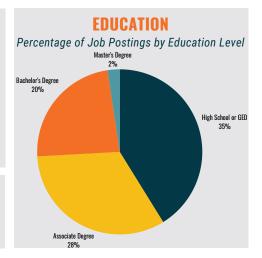
Employers or sponsors may provide apprenticeship opportunities, enabling individuals to acquire hands-on experience, engage in related instruction while receiving compensation. Completing a registered apprenticeship program can lead to career advancement and an average annual income of \$80,000. Learn more.

# **GROW A CAREER WITH ADVANCED DEGREES AND CERTIFICATES**

#### PROFESSIONAL CERTIFICATIONS

- EPA 608 Technician Certification
- **Contractor License**
- Automotive Service Excellence (ASE) Certification
- National Apprenticeship Certification
- · Six Sigma Certification

- LEED Accredited Professional (AP)
- CDL License
- **Project Management Certification**
- Forklift Certification
- **Project Management Professional** Certification



PROFESSIONAL LEVEL COMPETENCIES (7+ YEARS EXPERIENCE) Employers value staff that stay relevant and gain new skills.

#### ADVANCED DEGREES AVAILABLE

(Associate, Bachelor's and Master's Degrees)

· Business Administration

· Project Management

# A POTENTIAL PATH TO SUCCESS

Explore strategies for overcoming significant factors that can impact employment by clicking here. The following illustration outlines a potential career trajectory based on labor market insights within this occupation.

# **MID-LEVEL COMPETENCIES**

Continue gaining skills to stay relevant in an ever-changing ecosystem.

(3-6 YEARS EXPERIENCE)

# **ENTRY LEVEL COMPETENCIES** (0-2 YEARS EXPERIENCE)

Current employees who obtain training may be offered a new position, additional responsibility, and/or additional benefits.

#### Skills/knowledge in:

- Skills/knowledge in:
- Machinery
- Test Equipment
- Blueprinting
- Hand Tools

#### **Oualifications:**

· Valid Driver's License

- Fabrication
- Mechanical Engineering
- Electrical Wiring
- General **Mathematics**
- Microsoft Suite
- Instrumentation
- Hvdraulics

# Skills/knowledge in:

- HVAC
- Machining
- Mechanical **Systems**
- Mechanical Inspection

#### **Qualifications:**

 EPA 608 Technician Certification

### Skills/knowledge in:

- Air Handler
- Construction
- **Change Requests**
- Refrigerant
- Micrometer
- **Test Data**
- **Technical** Communication
- Welding
- Lathes
- Spreadsheets

### Skills/knowledge in: Project

- Management
- Process **Improvement**
- Mechanical Design
- SAP Applications
- Dashboard
- Key Performance Indicators (KPIs)
- Dashboard
- **Bill Of Materials**
- Data Analysis
- Power Tool Operation

#### Skills/knowledge in:

- Auditina
- Pivot Tables And Charts
- Milestones (Project
- Management)
- Tooling
- **Tooling Design**
- Project Proposals
- Portfolio Analysis
- Project Scoping
- Technical Design
- **Analytics**

## **Qualifications:**

 Contractor License

This workforce product was funded by a grant awarded by the U.S. Department of Labor (DOL)'s Employment and Training Administration (ETA). The product was created by the recipient and does not necessarily reflect the official position of DOL/ETA. DOL/ETA makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This product is copyrighted by the institution that created it.

This information was pulled and combined to create these profiles by WIN staff. Data pulled from ONet, Lightcast, and Indeed.