

# WELDERS, CUTTERS, SOLDERERS, AND BRAZERS

## ADVANCED MANUFACTURING INDUSTRY OCCUPATION OUTLOOK IN SOUTHEAST MICHIGAN, 2023

### OCCUPATION SUMMARY

Use various welding techniques to weld metal components or repair fabricated metal products. Safety protocols are strictly followed, including the operation of safety equipment and adherence to safe work practices. Workers meticulously inspect workpieces for defects and ensure they meet specifications. It is crucial to identify any equipment malfunctions or substandard materials and promptly report them to supervisors. Learn more at [onetonline.org](https://onetonline.org).

### JOB TITLES

The Welders, Cutters, Solderers, and Brazers occupation refers to the entire industry in which someone works. Some examples of specific job titles for this occupation include:

- Welder
- Fabricator
- Robotic Welder
- Production Welder
- Certified Welding Inspector

**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  
[michiganworks.org/michigan-works-network](https://michiganworks.org/michigan-works-network)

### AVERAGE WAGE IN MICHIGAN

	Entry	Median	Experienced
Hourly	\$15.06	\$20.31	\$30.07
Annually	\$31,325	\$42,245	\$62,546

### OCCUPATIONAL GROWTH

Projected to grow faster than average (8%); 1,583 annual job openings are predicted.

**8%  
GROWTH  
BY 2028**



## 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 AND LICENSES

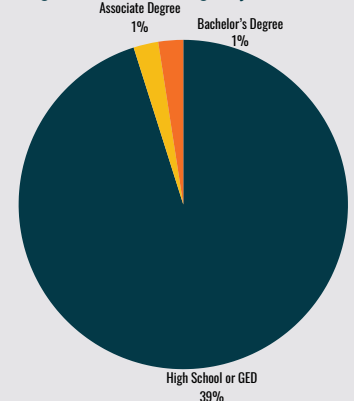
- Certified Welder
- Forklift Certification
- Certified Welding Inspector
- Commercial Driver's License (CDL)
- ASNT Non-Destructive Tester
- 6G Welding Certification
- Certified Safety Professional

### LAUNCH A CAREER WITH CDL TRAINING

CDL holders gain important work-related skills, knowledge, and experience. License holders are well-prepared to meet demands for many different jobs, especially in transportation and manufacturing. The skills learned with a CDL are versatile, enhance performance in different kinds of jobs and help meet the needs of a changing job market.

### EDUCATION

Percentage of Job Postings by Education Level



## 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.

### 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:**

- Metal Inert Gas (MIG) Welding
- Welding
- Gas Tungsten Arc Welding

**Qualifications:**

- Valid Driver's License
- Certified Welder

**Skills/knowledge in:**

- Aluminum
- Fabrication
- Welding Equipment
- Hand Tools

**Qualifications:**

- Security Clearance
- Forklift Certification

### MID-LEVEL COMPETENCIES (3-6 YEARS EXPERIENCE)

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

**Skills/knowledge in:**

- Brazing (Metal Work)
- Blueprinting
- Grinding Machine
- Welding Symbols
- Machinery
- American Welding Society Codes

**Qualifications:**

- Certified Welding Inspector

**Skills/knowledge in:**

- Safety Standards
- Sawing
- Machining
- General Mathematics
- Tooling
- Micrometer

**Qualifications:**

- Commerical Driver's License (CDL)

**Skills/knowledge in:**

- Structural Welding
- Engineering Documentation
- Oxy-Fuel Welding and Cutting
- Engineering Drawings
- Fair Credit Reporting Act
- ISO 14000 Series
- Microsoft Office

**Skills/knowledge in:**

- Shielded Metal Arc Welding
- Mechanics
- Sheet Metal
- Plasma (Physics)
- Prototyping
- Fleet Maintenance Software

**Qualifications:**

- Chauffeur License

### PROFESSIONAL LEVEL COMPETENCIES (7+ YEARS EXPERIENCE)

Employers value staff that stay relevant and gain new skills.

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