

COMPUTER NUMERICALLY CONTROLLED (CNC) TOOL OPERATORS

ADVANCED MANUFACTURING INDUSTRY
OCCUPATION OUTLOOK IN SOUTHEAST MICHIGAN, 2023

OCCUPATION SUMMARY

Operate computer-controlled tools, machines, or robots to machine parts from various materials like metal, plastic, wood, or stone. This includes setting up and maintaining the equipment as needed. Workers use precision measuring instruments, templates, and fixtures to measure dimensions of finished workpieces and ensure they meet specifications. Learn more at onetonline.org.

AVERAGE WAGE IN MICHIGAN

| | Entry | Median | Experienced |
|----------|----------|----------|-------------|
| Hourly | \$15.22 | \$21.17 | \$28.94 |
| Annually | \$31,658 | \$44,034 | \$60,195 |

JOB TITLES

The Computer Numerically Controlled (CNC) Tool Operators occupation refers to the entire industry in which someone works. Some examples of specific job titles for this occupation include:

- *CNC Operators*
- *CNC Machinists*
- *CNC Mill Programmers*
- *Machine Operators*

OCCUPATIONAL GROWTH

Slight decrease projected by 2028
(-1%); 1,201 annual job openings are predicted.

**-1%
GROWTH
BY 2028**

**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



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

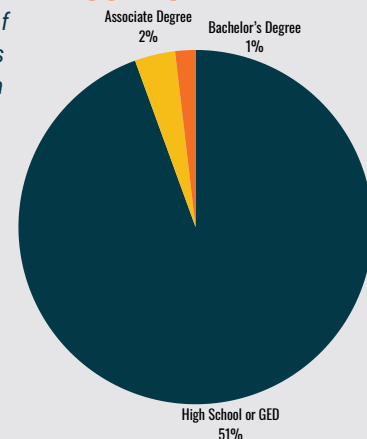
PROFESSIONAL CERTIFICATIONS

- CNC Machining Certification
- Forklift Certification
- 10-Hour OSHA General Industry Card
- Lean Certification
- Quality Certification



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:

- Computer Numerical Control (CNC)
- CNC Machining

Qualifications:

- Valid Driver's License

Skills/knowledge in:

- Machine Operation
- Lathes
- Machinery
- Tooling
- Machine Setup

Qualifications:

- Forklift Certification

Skills/knowledge in:

- Mills
- Metal Lathes
- Micrometer
- Calipers
- Blueprinting
- Blueprint Reading

Qualifications:

- Security Clearance

MID-LEVEL COMPETENCIES (3-6 YEARS EXPERIENCE)

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

Skills/knowledge in:

- Cutting Tool (Machining)
- Engineering Tolerance
- Drilling
- CNC Milling
- Machine Controls
- G-Codes
- Mastercam (CAD/CAM Software)

Skills/knowledge in:

- Geometry
- Hand Tools
- Material Handling Equipment
- Production Planning
- CAD Data Exchange
- Grinding
- AutoCAD

Skills/knowledge in:

- Life Coaching
- Quality Management Systems
- Lean Manufacturing
- Assembly Language
- GibbsCAM
- Microsoft Suite
- Enterprise Document Management System

PROFESSIONAL LEVEL COMPETENCIES (7+ YEARS EXPERIENCE)

Employers value staff that stay relevant and gain new skills.

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