



OCCUPATION SUMMARY

Develop programs to control the machining or processing of materials using automatic machine tools, equipment, or systems. This includes writing programs in the language of the machine's controller and storing them on various media. Additionally, they write instruction sheets and cutter lists to guide machine setup and encode numerical control tapes. Learn more at onetonline.org.

JOB TITLES

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

- CNC Programmers
- CNC Machinists and Programmers
- Application Engineers
- Fixture Designers
- Laser Applications Engineers

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

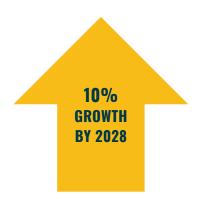
Contact your local *Michigan Works! Agency* to learn more michiganworks.org/michigan-works-network

AVERAGE WAGE IN MICHIGAN

	Entry	Median	Experienced
Hourly	\$19.91	\$28.22	\$37.79
Annually	\$41,413	\$58,698	\$78,603

OCCUPATIONAL GROWTH

Projected to slight decrease by 2028 (10%); 281 annual job openings are predicted.





COMPUTER NUMERICALLY CONTROLLED TOOL PROGRAMMERS WINTELLIGENCE INTELLIGENCE INTELLI



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

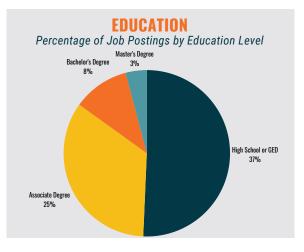
- · Hazardous Materials Manager Certification
- · Forklift Certification
- Industrial Hygienist Certification (CIH)



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

- · Quality Management
- Software Developement

- Engineering
- · Project Management



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

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 (3-6 YEARS EXPERIENCE)

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

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:

- Mills
- Tooling
- Cutting Tool (Machining)
- Machinery
- Blueprint Reading
- Computer-Aided Design
- SolidWorks (CAD)

Skills/knowledge in:

- Computer **Numerical Control** (CNC)
- Blueprinting
- 3D Modeling
- Machine Setup
- Manufacturing **Processes**

Oualifications:

 Forklift Certification

Skills/knowledge in:

- CNC Machining
- Machine Operation
- Process
- **Improvement**
- Technical Drawing
- Microsoft Suite
- Matercam (CAD/CAM
- Software) AutoCAD

Skills/knowledge in:

- Project Management
- Forklift Truck
- Asset
- Management
- Artificial Cardiac **Pacemakers**
- General Mathematics
- Geometry
- CAD Data Exchange

Skills/knowledge in:

- Automation
- Welding
- Calipers
- Vericut
- Teamcenter (PLM Software)
- Spreadsheets
- **G-Codes**
- Programming Tools

Oualifications:

 Certified Hazardous Materials Manager

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



Skills/knowledge in:

Computer-Aided

Manufacturing

Machining

Lathes

Oualifications:

License

Valid Driver's