



## CAREER PROFILES

### Machining Tool Operators:

**Machining Tool Operators** set up and operate or tend metal-cutting machines designed for repetitive machining work. **Machining Tool Operators** perform a variety of tasks with metal products. They may also etch or chemically mill metal pieces.

### Wage/Salary Information:

\$32,500 is the median annual salary found in local job-postings.

\$19.82/hour is the median wage reported locally.

### Commonly Listed Skills in Job Postings:

- Detail oriented
- Blueprint reading
- Heavy equipment operation
- Oral and written communication
- Teamwork
- Maintenance
- Forklift driving
- Math
- Manual dexterity
- Problem solving
- Self-motivated
- Tool use
- Bilingual

### Job Duties:

Machining Tool Operators study job orders and interpret blueprints to determine machining operations to be performed. Machining Tool Operators set up and operate machine tools to perform repetitive machining operations, such as turning, milling, drilling, boring, planning, honing, broaching, grinding, or other machining operations. They verify dimensions of parts machined using micrometers, callipers, and other precision instruments. Machining Tool Operators also prepare etching solution and immerse metal parts or workpiece in etching solution to remove unwanted portions. They also perform routine maintenance on equipment and machinery.

### Working Conditions:

Machining Tool Operators usually work in a conventional controlled environment such as an office, hospital or school.

This work produces enough noise to cause loss of hearing.

Work is done with equipment, machinery or power/hand tools that could cause an injury

Work may involve chemicals that are harmful to skin or eyes, dangerous if inhaled or may cause a fire or explosion.

Work may cause harmful vibrations in the body.

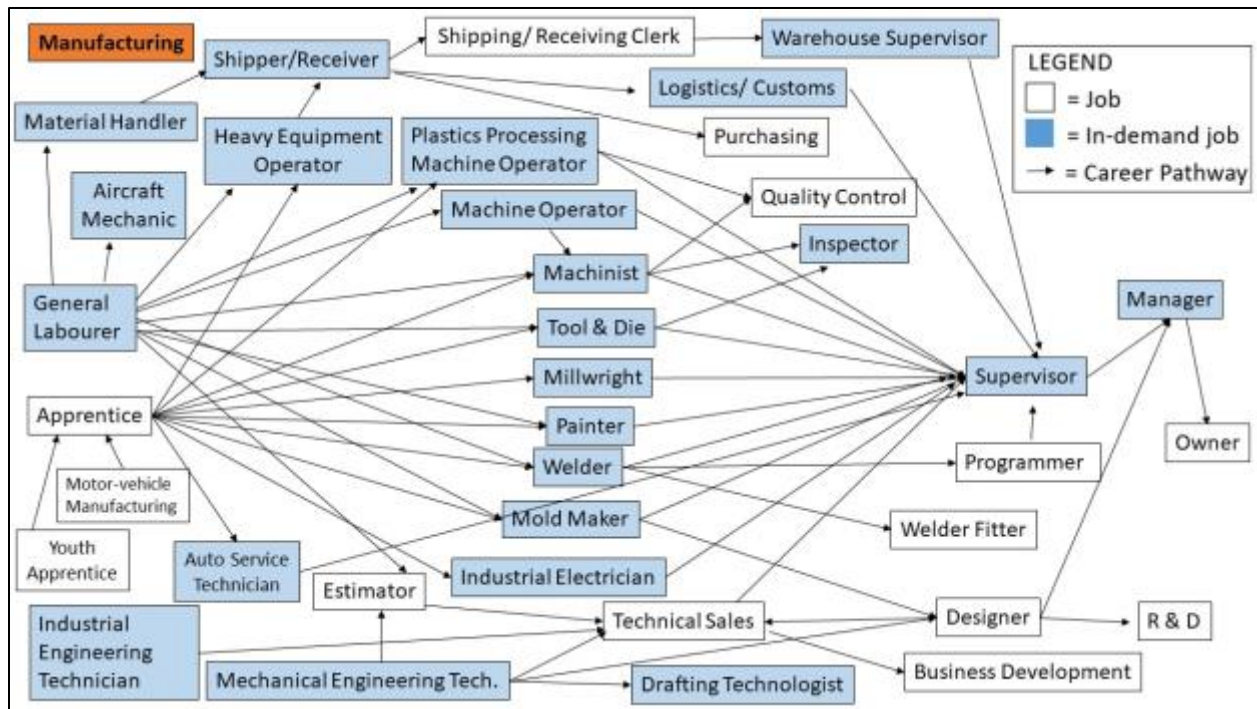
Workers are exposed to small pieces of flying material and falling objects that could cause injury.

### Career Pathways:

Many of today's manufacturing companies require expertise in high-tech tools like AutoCAD and MasterCAM. Those with education or training in these areas are more likely to land a job as a Machining Tool Operator. Experienced Machining Tool Operators may become Machinists or Tool and Die Makers through apprenticeship training.

Machining Tool Operators are employed by metal products and other manufacturing companies and machine shops. Below are potential career pathways for Machining Tool Operators:

- Aircraft Parts Etcher
- Boring Mill Operator – Metal Machining
- CNC Machining Tool Operator
- Lathe Machining Operator
- Machining Tool Operator
- Milling Machine Set-Up Operator
- Production Gear Cutter
- Production Grinder Operator – Metal Machining
- Radial Drill Operator – Metal Machining



## Education and Training Pathways:

If you're interested in becoming a Machining Tool Operator, you can begin your apprenticeship or attend a local training/education program.

### Apprenticeship Details:

#### Bearings Mechanic

- Certification: Voluntary (not required to practice this profession in Ontario)
- Red Seal: No
- On-the-job training: 5,760 hours
- In-class training: 240 hours

#### Tool and Cutter Grinder

- Certification: Voluntary (not required to practice this profession in Ontario)
- Red Seal: No
- On-the-job training: 3,760 hours
- In-class training: 8 weeks of technical training

Individuals interested in pursuing an apprenticeship pathway, should follow these steps:

- 1) Get hired – by an employer/sponsor/union

- 2) Apply online to register as an apprentice at [www.ontario.ca/page/start-apprenticeship](http://www.ontario.ca/page/start-apprenticeship)
- 3) Sign a training agreement with your employer/sponsor and the Employment Ontario apprenticeship office.
- 4) Become a Member of the Ontario College of Trades Apprentices Class at [www.collegeoftrades.ca/membership](http://www.collegeoftrades.ca/membership)
- 5) Keep a record of the hours you work
- 6) Achieve the competencies listed in your training standard if required in your trade
- 7) Complete all of the training requirements in your trade and you will receive a Certificate of Apprenticeship (CoA).
- 8) Write the Exam for the Certificate of Qualification if required in your trade

If you are currently in high school and would like to begin an apprenticeship, visit [oyap.com](http://oyap.com) for more information about the Ontario Youth Apprenticeship Program.

Individuals unsure about whether to pursue an apprenticeship or not, can learn more by visiting [www.ontario.ca/page/prepare-apprenticeship](http://www.ontario.ca/page/prepare-apprenticeship).

#### St. Clair College:

#### **Civil Engineering Technology**

**Admission/Eligibility Requirements:** OSSD with the majority of courses at the College ©, University (U), University/College (M), or Open (O) level plus: Grade 12 Math © or (U)

**Academic Credential:** Three Year - Ontario College Advanced Diploma

**Professional Certification:** Unknown

**Attendance:** In-person

**Full-time or Part-time:** Full-time

**Program Length:** 3 years

**Program Cycle:** Unknown

#### **Program Cost:**

- Year 1: \$4,186.61
- Year 2: \$3,781.05
- Year 3: \$3,804.05
- Total: \$11,771.71 (2017/18)

**OSAP Eligible:** Yes

**Location:** 2000 Talbot Road West, Windsor, NgA 6S4

For more information on this program, please visit:

<http://www.stclaircollege.ca/programs/postsec/civil/>

[Windsor Career College:](#)

**Engineering Design & Drafting Technologist**

**Admission/Eligibility Requirements:** Unknown

**Academic Credential:** Diploma

**Professional Certification:** Unknown

**Attendance:** In-Person

**Full-time or Part-time:** Full-time

**Program Length:** 28 weeks

**Program Cycle:** Unknown

**Program Cost:** Unknown

**OSAP Eligible:** Unknown

**Location:** 235 Eugenie Street West, Windsor, N8X 2X7

For more information on this program, please visit:

<http://www.windsorcareercollege.ca/engineering.html>

***Disclaimer:** The educational institution reserves the right to change information without notice, and may result in discrepancies between their information and the information presented above. If any errors are found, please report them to [info@workforcewindsorsex.com](mailto:info@workforcewindsorsex.com).*