



**Machine Tool Dual Enrollment Curriculum Possible Careers**

**During High School (12 Credits)**

<b>MACHTL-360</b>	Metrology.....	1
<b>MACHTL-384</b>	Machine Trades Math 1.....	1
<b>MDRAFT-385</b>	Machine Blueprint Reading.....	1
<b>MACHTL-300</b>	Engine Lathe.....	3
<b>MACHTL-367</b>	Machine Tool Technology.....	1
<b>CIVIL-102</b>	Intro to AutoCad.....	2
<b>MACHTL-385</b>	Machine Trades Math 2.....	1
<b>MDRAFT-386</b>	Machine Blueprint Reading 2.....	1
<b>MACHTL-391</b>	Quality Control.....	1

- CNC Setup and Operator-Turning and Vertical
- Manual Lathe and Milling Machine Setup and Operator

**Complete the remaining classes after graduation@MATC (22 Credits)**

<b>MACHTL-301</b>	Engine Lathe 2.....	3
<b>MACHTL-309</b>	Manual Vertical Milling 1.....	3
<b>MACHTL-310</b>	Manual Vertical Milling 2.....	3
<b>MACHTL-304</b>	Intro to CNC Programming.....	1
<b>MACHTL-320</b>	Intro to CNC Turning.....	4
<b>MACHTL-322</b>	Intro to CNC Vertical Mach.....	4
<b>MACHTL-325</b>	Surface Grinding.....	4

**Related Programs**

- Computer Numerical Control (CNC) Technician
- Machine Tool Operations-CNC Swiss Turning Center Setup and Operation
- Mechanical Design Technology
- Tool and Die Making

**Income After Graduation**

**\$20.007/hour median wage (2015)**

*\*Classes you can complete at Bradley Tech will save you the costs of 12 MATC credits, \$2,500.00!*

Lynde & Harry Bradley  
 School Of Technology & Trade  
 700 South Fourth Street  
 Milwaukee, WI 53204  
 (414) 212-2400



**Bradley Tech  
 Manufacturing Academy  
 Career Pathways:**

- Welding
- Machine Tool

[www5.milwaukee.k12.wi.us/school/bradleytech](http://www5.milwaukee.k12.wi.us/school/bradleytech)



**CAREER CLUSTER:** Manufacturing



# Machine Tool Operations: CNC Machine Setup and Operation

**TECHNICAL DIPLOMA**

Program Code: 31-420-1.B

## Downtown Milwaukee Campus

This two-semester program covers the setup and operation of the Computer Numerical Control (CNC) vertical machining center and the CNC turning center – the centerpiece of many manufacturing firms. You also will receive instruction in how to interpret the CNC programs used by these machines.

### Career Outlook

CNC machine tool operators with up-to-date experience are in demand.

### Program Learning Outcomes

- Set up and operate manual engine lathe
- Set up and operate manual milling machine
- Set up and operate CNC turning machine
- Set up and operate CNC vertical machine
- Set up and operate surface grinders

### Admission Requirements

- High school diploma or GED
- Demonstration of proficiency in basic skills through a course placement assessment

Note: Students will need a tablet or mobile device to complete course requirements.



[matc.edu/academic\\_programs/pathways](http://matc.edu/academic_programs/pathways)

After completing this program, your credits can be applied to earning the CNC Technician technical diploma.