

Machine Tool Operations

PROGRAM CODE: 31-420-1



Technical Diploma



Location: Downtown Milwaukee Campus

Start Dates: August and January

Admission Requirement: High school diploma or equivalent
Note: Students will need a tablet or mobile device to complete course requirements.

Financial Aid Eligible: Yes. Use code 003866 at fafsa.gov.

Program Description

Learn in-demand skills for machine tool operations. Students gain hands-on experience in Computer Numerical Control (CNC) machine setup and operation.

Career Outlook

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

Program Learning Outcomes

- Apply basic safety practices in the machine shop.
- Interpret industrial/engineering drawings.
- Apply precision measuring methods to part inspection.
- Perform basic machine tool equipment setup and operation.
- Perform programming, setup and operation of CNC Machine Tools.

COURSES

CREDITS

MACHTL-360	Metrology ^	1
MACHTL-367	Machine Tool Technology.....	1
MACHTL-384	Machine Trades Mathematics 1 ^	1
MDRAFT-385	Machine Blueprint Reading 1 ^	1
MACHTL-300	Engine Lathe 1 (Turning).....	3
MACHTL-301	Engine Lathe 2 (Turning) ‡.....	3
MACHTL-309	Manual Vertical Milling Machine 1 ^.....	3
MACHTL-310	Manual Vertical Milling Machine 2 ‡ ^.....	3
ENG-340	Workplace Communication..... (or) ENG-195 Written Communication ‡	2
MACHTL-304	Introduction to CNC Programming ‡ ^.....	1
MACHTL-385	Machine Trades Mathematics 2 ‡ ^	1
MACHTL-391	Quality Control ‡.....	1
MDRAFT-386	Machine Blueprint Reading 2 ‡ ^	1
MACHTL-320	Introduction to CNC Turning Centers ‡.....	4
MACHTL-322	Introduction to CNC Vertical Machining Centers ‡ ^	4
MACHTL-325	Surface Grinding	4

CREDITS

Total credits needed to complete this diploma

34

‡ Prerequisite required.

^ Counts toward earning the CNC Setup and Operations certificate.

Program curriculum requirements are subject to change.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

MATC courses are offered in person, entirely online or partially online. Check each course's delivery options in Self-Service at selfservice.matc.edu.



Complete Program Details

QUESTIONS? 414-297-8901 or mctpathway@matc.edu