

Machine Tool Operations

PROGRAM CODE: 31-420-1



Technical Diploma



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	2
(or) ENG-195 Written Communication ‡	
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

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.

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