

Computer Numerical Control (CNC) Technician

PROGRAM CODE: 32-444-1



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
MACHTL-386 Machine Trades Math 3 ‡	1
CNC-302 Computer Application/CNC	1
CNC-324 CNC Machine Programming/Proveout 1 ‡	3
CNC-325 CNC Machine Programming/Proveout 2 ‡	3
CNC-326 Machining Center CAD/CAM Programming 1 ‡	3
CNC-327 Machining Center CAD/CAM Programming 2 ‡	3
MDRAFT-320 Coordinate Blueprint Reading ‡	1
CNC-320 Tooling and Fixturing	1
CNC-321 CNC Machine Technology	1
CNC-332 CNC Turning Programming/Proveout 1 ‡	3
CNC-333 CNC Turning Programming/Proveout 2 ‡	3
CNC-334 Turning Center CAD/CAM Programming 1 ‡	3
CNC-335 Turning Center CAD/CAM Programming 2 ‡	3
MTLGY-321 Metallurgy 1	1

Location: Downtown Milwaukee Campus (year one only), Oak Creek Campus

Start Dates: August and January

Admission Requirement: High school diploma or equivalent

Academic Preparedness Requirements: Completion of Machine Tool Operations technical diploma program and two years of hands-on CNC machine tool experience

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

Program Description

MATC's equipment includes industrial-based CNC machining centers and turning centers, and computer-aided design/computer-aided manufacturing (CAD/CAM) workstations. Students gain hands-on experience in all phases of programming and operations.

Career Outlook

Large and small manufacturers employ CNC machine operators/programmers. Due to the high number of industrial companies in southeastern Wisconsin, there is a need for skilled people.

Program Learning Outcomes

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



Complete Program Details

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

CREDITS

Total credits needed to complete this diploma

64

‡ Prerequisite required.

^ Counts toward earning the Machine Tool Operations technical diploma.

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.

This program is accredited by the National Institute for Metalworking Skills, 10565 Fairfax Boulevard, Suite 10, Fairfax, VA 22030; 703-352-4971; <https://www.nims-skills.org/index.php/accreditation>.