

2021-22 ACADEMIC PROGRAMS

ADVANCED MACHINE TOOL PROGRAMMING (CVMTPA)

Advanced Certificate

In this program, students will learn advanced CNC programming skills. Students will practice the fundamentals of Intuitive Probing Systems (IPS) and Visual Quick Code (VQC) needed to create machine tool programs. Starting with 2D and 3D CAM programming and advancing to 4th and 5th axis machining, students will learn the proper methods for creating tool paths.

This is a **high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

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Description

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Admissions Requirements

Completion of the Machine Tool Programming (CNC) certificate.

Course Requirements

Major/Area Requirements

Class	Title	Minimum Credits
MEC 120	3D-Printing: Machine, Process and Innovation	4
NCT 255	Probes, Macros and Conversational Programming for CNC	4
NCT 259	MasterCam 2D and 3D CAM CNC Programming for Mills	4
NCT 269	4 and 5 Axis Machining for the CNC Vertical Mills	4
Total		16

Total Credits Required: 16

Accurate as of 03/03/2021 Information is subject to change without notice.