



Computer Numerical Control Technology (CNC)



Program Description:

This program offers training for both new and experienced computer numerical control (CNC) personnel. Students new to CNC can complete the entire program to learn the basic CNC operator skills necessary for entry-level employment in manufacturing and earn a CNC technology certificate. Experienced CNC personnel can attend any of the CNC certificate courses they choose to upgrade their skills.

Audience:

Machinists, CNC operators and programmers, shop floor technicians and supervisors.

Topics Covered:

- Calculate speeds and feeds for machining
- Calculate dimensional part data using shop math and trigonometry
- Mount tools and set geometry offsets on CNC mills and lathes
- Load parts and set work shift offsets
- Activate and run CNC part programs
- Write and edit basic part programs for CNC mills and lathes
- Adjust offsets to maintain tolerances on a part

Program Prerequisite(s):

- Previous experience with machine tools or completion of a machining technology program

Courses:

Required Courses	Hours	Cost
CNC Fundamentals	32	\$625
CNC Technologies	32	\$625
CNC Mill Advanced	32	\$625
CNC Lathe Advanced	32	\$625
MasterCAM Basic Mill or Lathe	32	\$625
TOTAL	160	\$3,125
Optional Hands-on Labs		
CNC Lathe Lab I	12.5	\$310
CNC Mill Lab I	12.5	\$310
CNC Lathe Lab II	12.5	\$310
CNC Mill Lab II	12.5	\$310
TOTAL	50	\$1,550

An assessment is given at the end of each course. A score of 70 percent or better is required to receive a certificate for each course. Students successfully completing all five required courses receive an additional certificate for the entire program.

Upon Completion:

- Earn a Competency Award from the Workforce & Economic Development Division (WEDD)
- Be prepared to compete for positions such as CNC operator, CNC set up person or CNC programmer.

Information: 216-987-3204