

PRECISION MACHINING ESSENTIALS (NONCREDIT), CERTIFICATE OF COMPLETION

The Certificate of Completion in Precision Machining Essentials (Noncredit) is designed to prepare students for employment as entry-level computer numerical control (CNC) machine operators and equip transfer students with relevant hands-on skills.

The program includes the most modern software and hardware to provide a good environment for learning, in both the lecture and laboratory settings. The inclusion of multi-axis machining, new computer-controlled laser technology, and continuing use of general manufacturing process technology gives students access to industrial tools and technologies found in the industry. Courses are aligned with industry skills and national standards to prepare students interested in starting a career in manufacturing.

Course ID	Title	Units/ Hours
Required Core Courses		
MT N102	Applied Machining I (Noncredit)	105
MT N105	CNC Machining I (Noncredit)	105
Required Core Hours		210
Total Hours for the Certificate		210

Year 1		
Fall Semester		Units/Hours
MT N102	Applied Machining I (Noncredit)	105
MT N105	CNC Machining I (Noncredit)	105
Units/Hours		210
Total Units/Hours		210

Upon successful completion of this program, students will be able to:

- Apply safe work practices in a manufacturing environment.
- Analyze engineering documentation and apply the information to the manufacturing process.
- Perform CNC machine setup, operation, and part inspection per industry (National Institute for Metalworking Skills (NIMS)) standards.