

COMPUTER NUMERICAL CONTROL (CNC) CERTIFICATE

14 Semester Credit Hours; Curriculum: 0279

Certificate prepares students for entry-level Computer Numerical Control (CNC) positions. Material taught in the program includes technical print reading and concepts related to precision machining processes, tooling, and fixtures. Students will learn how to operate, setup, and create basic G-code programs for CNC lathe and mill machines. This certificate can be completed in one semester.

Code	Title	Hours
Courses for a Certificate		
MFG 102	Industrial Drafting and Design	3
MFG 110	Introduction to Machining	3
MFG 141	CNC Machine Operation - NIMS	4
MFG 144	Introduction to CNC Programming	4
Total Hours		14

Program Learning Outcomes

1. Interpret technical prints to select correct machining method.
2. Define basic terminology and principles of precision machining.
3. Practice safe operation of CNC Turning and CNC Milling Centers.
4. Create basic G-code programs to run CNC Lathe and Mill machines.