

CNC MACHINE OPERATOR, CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in CNC Machine Operator prepares students to develop the core technical skills necessary to meet the needs and challenges within the various manufacturing industries. Students will integrate and apply concepts from the areas from advanced manufacturing using the most modern software and hardware to provide a good environment for learning. The inclusion of multi-axis machining, new computer-controlled laser technology, and continuing use of general manufacturing process technology gives the students access to industrial tools and technologies found in the industry.

Students who complete this certificate will be prepared for careers in a variety of occupations related to multiple career pathway opportunities in manufacturing, specifically as a CNC machine operator or a manufacturing quality inspector.

Course ID	Title	Units/ Hours
Required Courses		
DRFT V02A or WEL V02	Blueprint Reading: Manufacturing	3
MT V04	Measurements and Computations	3
MT V05	CNC Machining I	2
MT V08	Computer Numerical Control (CNC) Programming	3
MT V10	Quality Control and Mechanical Inspection	2
MT V15	Manufacturing Processes	3
Total Units		16

Year 1		
Fall Semester		Units/Hours
DRFT V02A or WEL V02	Blueprint Reading: Manufacturing or Blueprint Reading: Manufacturing	3
MT V04	Measurements and Computations	3
MT V05	CNC Machining I	2
MT V08	Computer Numerical Control (CNC) Programming	3
MT V10	Quality Control and Mechanical Inspection	2
MT V15	Manufacturing Processes	3
	Units/Hours	16
	Total Units/Hours	16

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.