

# CNC MACHINIST, CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in CNC Machinist 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. This COA includes the introduction to CAD/CAM software and g code programming, as well as use of general manufacturing process technology that gives 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 machinist or a manufacturing quality inspector.

Course ID	Title	Units/ Hours
<b>Required Courses</b>		
MT V06	CNC Machining II	2
MT V07	CNC Machining III	2
MT V18	Manufacturing Projects and Applications	2
MT V35	Production Machining and Tooling Design Techniques	3
DRFT V50	Flexible Manufacturing Applications: Computer Assisted Drafting CAD/Computer Assisted Machining CAM	3
<b>Total Hours</b>		<b>12</b>

Year 1		Units/Hours
Spring Semester		
MT V06	CNC Machining II	2
MT V07	CNC Machining III	2
MT V18	Manufacturing Projects and Applications	2
MT V35	Production Machining and Tooling Design Techniques	3
DRFT V50	Flexible Manufacturing Applications: Computer Assisted Drafting CAD/Computer Assisted Machining CAM	3
	<b>Units/Hours</b>	<b>12</b>
	<b>Total Units/Hours</b>	<b>12</b>

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

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