

CNC MACHINE OPERATOR, CERTIFICATE OF ACHIEVEMENT

Financial Aid Eligible

Banner Code: 1_CT_MTMO

Control Number: 19542

The CNC Machine Operator certificate enhances the skills of students who have earned the Machinist certificate by providing that student with CNC machine operating skills and manual programming skills. The courses required for earning this certificate are designed to make the machine operator capable of setting up and manually programming a CNC machine tool. The CNC Machine Operator Professional Upgrade Certificate is specifically for the returning student with on-the-job machining experience.

Program Outcome

1. Set-up and operate CNC Lathes and Milling Machines.

Certificate Requirements

Orange Coast College offers two types of certificate awards in career programs designed to prepare the graduate to enter a particular field of employment. At least 3 units in an advanced course from the certificate must be completed at OCC.

1. **Certificate of Achievement** - 8 units or more in a state-approved program. Certificates of Achievement are not automatically awarded. A petition must be filed in Enrollment Services or online at the beginning of the semester in which the student will be completing his or her final requirements. The petitioning periods are listed in the Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/>) section of this catalog.
2. **Certificate of Specialization** - 16 units or less in a locally approved program. Certificates of Specialization are not automatically awarded, not printed on official academic transcripts, and there is no acknowledgment of completion given at graduation. Please contact the division for details regarding the submission of petitions as procedures for each division vary. Most division offices prefer that students complete all of the required courses and then provide a copy of the transcript while some divisions allow petitions for Certificates of Specialization before finishing.

Minimum Grade Requirement

In order to be awarded a certificate, students are required to obtain a grade of "C" or better in all program-required courses. Grades of "CR" or "P" will be accepted whereas "CR" or "P" meets the equivalency of a "C" or better. A list of certificate programs can be found in the Programs A-Z (<https://catalog.cccd.edu/orange-coast/programs-study/>) section of this catalog. Check with a counselor to determine the requirements for completion.

Required Prerequisites

Machinist Certificate of Achievement

Course	Title	Units
Year 1		
Fall		
MACH A100	Introduction to Machine Shop	3
MACH A105	Lathe	5
MACH A120	Measurement and Blueprint Reading	3
MACH A121	Computations for Machinists	3
	Units	14
Spring		
MACH A110	Milling Machine	5
MACH A115	Production Machining Techniques	2
MACH A130	Introduction to CNC and Manual Programming	3
	Units	10
	Total Units	24

Subtotal 24

Course	Title	Units
Year 1		
Fall		
MACH A125	CNC Machine Operation 1	3
	Units	3
Spring		
MACH A126	CNC Machine Operation 2	2
MACH A133	CNC Programming-Mastercam 1	3
	Units	5
	Total Units	8

Total Units - 32