

# CNC MACHINE OPERATOR, CERTIFICATE OF ACHIEVEMENT

**Banner Code:** 1\_CT\_MTMO  
**Financial Aid Eligible**

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

Set-up and operate CNC Lathes and Milling Machines.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/certificates/#achievementtext>).

## Required Prerequisites

### Machinist Certificate of Achievement (24 Units)

Course	Title	Units
MACH A100	Introduction to Machine Shop	3
MACH A105	Lathe	5
MACH A110	Milling Machine	5
MACH A115	Production Machining Techniques	2
MACH A120	Measurement and Blueprint Reading	3
MACH A121	Computations for Machinists	3
MACH A130	Introduction to CNC and Manual Programming	3
<b>Total Units</b>		<b>24</b>

## Required Courses

Course	Title	Units
MACH A125	CNC Machine Operation 1	3
MACH A126	CNC Machine Operation 2	2
MACH A133	CNC Programming-Mastercam 1	3
<b>Total Units</b>		<b>8</b>

Requirement	Units
Program Prerequisites	24
Award Units	8
<b>Total Units</b>	<b>32</b>

## Program Sequence

These sequences at Orange Coast College are curriculum maps for students to finish all requirements for the certificate. There may be advisories, prerequisites, or time requirements that students need to

consider before following these maps. **Students are advised to meet with an Orange Coast College Counselor for alternate sequencing.**

Course	Title	Units
<b>Year 1</b>		
<b>Semester 1</b>		
MACH A100	Introduction to Machine Shop	3
MACH A105	Lathe	5
MACH A120	Measurement and Blueprint Reading	3
MACH A121	Computations for Machinists	3
<b>Units</b>		<b>14</b>
<b>Semester 2</b>		
MACH A110	Milling Machine	5
MACH A130	Introduction to CNC and Manual Programming	3
<b>Units</b>		<b>8</b>
<b>Year 2</b>		
<b>Semester 1</b>		
MACH A125	CNC Machine Operation 1	3
MACH A115	Production Machining Techniques	2
<b>Units</b>		<b>5</b>
<b>Semester 2</b>		
MACH A126	CNC Machine Operation 2	2
MACH A133	CNC Programming-Mastercam 1	3
<b>Units</b>		<b>5</b>
<b>Total Units</b>		<b>32</b>