

CNC OPERATOR CERTIFICATE

Division: Technology and Engineering

PROGRAM CODE: 2C40638

The **CNC Operator Certificate** is designed to prepare students for entry-level employment as CNC (Computer Numerical Control) machine tool operators and to enhance the skills of machinists who are currently employed in the trade. This type of certificate program can also lead to entry level careers as a machinist, toolmaker, CNC programmer, manufacturing engineer, process engineer, field service technician as well as a number of other manufacturing/service positions. This certificate requires a total of 14 units. At least one half of the units toward the certificate must be completed at Fullerton College. A grade of C or better is required for each course taken.

Code	Title	Units
Required Courses (14 units):		
MACH 101 F	Introduction to Machine Tools (formerly MACH 091 F)	5
MACH 110 F	CNC Machine Set-Up and Operation (formerly MACH 086 F)	3
MACH 115 F	CNC Parts Programming (formerly MACH 087 F)	3
MACH 120 F	Advanced CNC Machining (formerly MACH 088 F)	3
Total Units		14

Outcome 1: Identify and analyze different types of computer numerical machinery, their axis systems, control features, positioning systems, tooling and cutting tools which can produce piece parts to drawing specifications.

Outcome 2: Analyze and solve mathematical calculations necessary to determine part feature locations of machined parts to fabricate piece parts to drawings specifications.

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