

SWISS LATHE CERTIFICATE

Division: Technology and Engineering

PROGRAM CODE: 2C37761

The **Swiss Lathe Certificate** is designed to prepare students for entry-level employment as Screw Machine Operator (Machinist; Computer Numerical Control Operator) and to enhance the skills of machinists who are currently employed in the trade where Automatic Swiss Style Lathes (screw machines) are used. An Automatic Swiss Lathe type machine (commonly known as a Screw machine) performs a variety of task with one or more multiple spindles. These machines are used to produce bulk quantities of custom parts from stock metal or other materials. The Swiss Lathe Certificate requires the student to complete a total of 19 units. A minimum grade of C or better is required for each taken. At least one-half of the units toward the certificate must be completed at Fullerton College.

Code	Title	Units
Required Courses (19 units):		
DRAF 101 F	Blueprint Reading for Manufacturing (formerly DRAF 070 F)	2
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 140 F	Basic CNC Swiss Style Lathe Set-Up and Operation	3
MACH 142 F	Advanced CNC Swiss Style Lathe Set-Up and Operation	3
MACH 145 F	Basic CNC Swiss Style Lathe Programming and Applications	3
Total Units		19

Outcome 1: Demonstrate an understanding of computer numerical control programs for a Swiss style lathe machine and prepare a simple program to machine piece parts per drawing specifications.

Outcome 2: Demonstrate the ability to set fixture offsets, tool length offsets, geometry and wear offsets on a Swiss Style Lathe (screw machine type) to manufacture piece parts to drawing specifications.

https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=791