

# INDUSTRIAL DRAFTING – LEVEL I CERTIFICATE

---

Division: Technology and Engineering

PROGRAM CODE: 2C10622A

The **Industrial Drafting - Level I Certificate** is designed to prepare students to work as computer-aided drafters/designers in industry and to upgrade the skills of persons presently employed as drafts/designers. This certificate requires a total of 20 units. At least half of the units towards this certificate must be completed at Fullerton College. A grade of C or better is required in each course taken.

Code	Title	Units
<b>Required Courses (20 units):</b>		
ARCH 124 F	Architectural CAD I	3
DRAF 101 F	Blueprint Reading for Manufacturing (formerly DRAF 070 F)	2
DRAF 140 F	AutoCAD for Industry	3
DRAF 171 F	Fundamentals of Drafting	2
DRAF 173 F	Geometric Dimensioning and Tolerancing	2
MACH 116 F	Machine Tools	2
MACH 150 F	CNC Programming Using Mastercam (formerly MACH 050 F)	3
or MACH 154 F	CNC Programming Using Surfcam (formerly MACH 060 F)	
WELD 100 F	Introduction to Welding (formerly WELD 121AF)	3
<b>Total Units</b>		<b>20</b>

**Outcome 1:** Demonstrate an understanding of the current ASME standard 2D and 3D computer aided design skills required in manufacturing, design, and engineering disciplines.*standards.*

**Outcome 2:** Demonstrate knowledge of ASME annotation and dimensioning techniques used in producing drawings in the engineering and manufacturing fields.

---

[https://www.curricunet.com/fullerton/reports/program\\_report.cfm?programs\\_id=982](https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=982)