

PROGRAM APPROVAL APPLICATION NEW or SUBSTANTIAL CHANGE or LOCALLY APPROVED (This application may not exceed 3 pages)

Fill In Form							
Drafting Level I Certificate			Fall-2018				
Proposed Program T	itle		Projected Program Start Date				
Fullerton College			North Orange County Community College District				
College			District				
Contact Information	on						
Doug Benoit Voting Member			Dean Business & CIS Office Title				
714-992-7033			dbenoit@fullcoll.edu				
Phone Number			Email				
Goal(s) of Program	(Check all that apply):						
☐ Career Technical	Education (CTE)	Transfer		Other			
Type of Program (Check all that apply):						
Certificate of Act	nievement 12-17 (or 17-27 qu	uarter) units	☐ Certificate of Achievement	: 18+ semester (or 27+ quarter) units			
Associate of Scie	nce Degree		Associate of Arts Degree				
Reason for Approx	val Request (Check One):						
☐ New Program ☐ Substantial Ch		Substantial Cha	nge Locally Approved				
Program Informat	ion						
0953.00	Recommended <u>Taxonomy</u>	of Program (TOP) Cod	<u>e</u>				
	Units for Major-Degree						
	Total Units for Degree						
18	Required Units-Certificate						

Written Form

1. Insert the description of the program as it will appear in the catalog. (See PCAH pp. 142 and 170) Industrial Drafting Level I Certificate PROGRAM CODE: 2C10622

The Industrial Drafting Level I certificate program prepares students to work as computer-aided drafters/designers in industry and to upgrade the skills of persons presently employed as drafters/designers. This Certificate requires a total of 18 units with a grade of "C" or better in each course



taken. At least one half of the units toward the certificate must be completed at Fullerton College. of C or better is required for each course taken.

2. Provide a brief rationale for the program.

- The Industrial Drafting Level I Certificate program is designed to introduce students to the Technical Drafting field. In the Industrial Drafting Level I certificate program students will learn basic drafting and AutoCAD skills applicable to general drafting positions.
- Drafters prepare mechanical drawings and plans used to build everything from manufactured products, machinery and aerospace
 products. Most drafters use Computer Aided Drafting (CAD) systems to prepare drawings. Within the mechanical drafting occupation
 there are a number of specialties, including: aeronautical, mechanical, automotive, structural and robotic fields. All of these require
 mechanical ability and visual aptitude. An ability to draw well and perform detailed work accurately and neatly is also important. In
 addition, drafters will be working with other professionals and customers and need to have good interpersonal skills.
- 3. Summarize the Labor Market Information (LMI) and employment outlook (including citation for the source of the data) for students exiting the program. (See PCAH pp. 85-88, 136, 147, 148, 165, 168, and 176)

The three-year average supply from regional colleges is 51 per year.

Regional annual openings for the SOC codes listed within 17-3000 group are at a minimum of 197 indicating a gap of 146 hires per year. Source: http://coeccc.net/supply-demand/ For Orange County

EDD enrollment projection stated below.

SOC Code* Occupational Title	Estimated Employment 2012**	Projected Employment 2022	Numeric Change 2012-2022 [1]	Percent Change 2012-2022	Annual Average Percent Change	
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Orange County

	Drafters, Engineering Technicians, and					
	Mapping Technicians	9,390	9,220	-170	-1.8%	-0.2%
17-3000						
17-3011	Architectural and Civil Drafters	2,040	1,970	-70	-3.4%	-0.3%
	Electrical and Electronics Drafters	320	340	20	6.3%	0.6%
17-3012						
17-3013	Mechanical Drafters	580	530	-50	-8.6%	-0.9%
	Drafters, All Other	220	240	20	9.1%	0.9%
17-3019						

California

	Drafters, Engineering Technicians, and					
	Mapping Technicians	77,400	80,400	3,000	3.9%	0.4%
17-3000						
17-3011	Architectural and Civil Drafters	12,200	12,100	-100	-0.8%	-0.1%
17-3012	Electrical and Electronics Drafters	4,500	5,000	500	11.1%	1.1%
17-3013	Mechanical Drafters	4,100	3,800	-300	-7.3%	-0.7%
	Drafters, All Other	1,800	2,100	300	16.7%	1.7%
17-3019						



4. List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (There is space for 10 listings, if you need more, please contact laocrc@rsccd.edu)

College	Program	Who You Contacted	Outcome of Contact
Cerritos College	Engineering Design	Miodrag Micic	Left voice mail
Mt. SAC	Manufacturing Technology	Jenny Wang	Left email
Saddleback College	Drafting Technology	Susan Sherod	Left email
Santa Ana College	Engineering CAD	Steve James	Left email

5. List all courses required for program completion, including core requirements, restricted electives and prerequisites. (There is space for 20 listings, if you need more, please contact laocrc@rsccd.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Required core	DRAF 070 F	Blueprint Reading for the Metal Trades	2
Required core	DRAF 140 F	AutoCAD for Industry	2
Required core	DRAF 173 F	Geometric Dimensioning and Tolerancing	2
Required core	DRAF 171 F	Fundamentals of Drafting	2
Required core	MACH 116 F	Machine Tools	2
Required core	MACH 150 F	CNC Programming Using Mastercam	3
Required core	Or MACH 154 F	CNC Programming Using Surfcam	3
Required core	WELD 121AF	Introduction to Welding	2
Required core	ARCH 124 F	Architectural CAD I	3

6. Include any other information you would like to share.