



Cluster: Manufacturing

Guided  
Career Pathways

Production

Program of  
Study: Welding, Occupational (Combination Welder)

Associate of Arts/ Science Degree	M	E	T	I	P	N	E	E	D
<b>2. AMERICAN INSTITUTIONS/STATE &amp; LOCAL GOVERNMENT : (3 units)</b>									
Political Science 101**, 105 and 106; Social Science 132. <small>(**Students who completed POL S 101 before Spring 2014 must also complete POL S 106).</small>									
<b>3. U.S. HISTORY: (3units)</b>									
Economics 111, History 116; History 110, 111(CD), 117, 118; Social Science 131									
<b>4. MATHEMATICS</b>									
Mathematics 101, 120, 131 or 220AB (2 units)									
<b>5. HEALTH (3 units)</b>									
Health 104, 106; Psychology 111(CD)* or equivalent will satisfy this requirement.									
<b>6. PHYSICAL EDUCATION (2 units)</b>									
physical education activity classes and/or dance activity classes									
<b>7. FIRST AID (1 units)</b>									
Health 101, 102; Emergency Medical Technology 140									
<b>8. CULTURAL DIVERSITY (3 units)</b>									
Courses that satisfy this requirement have been marked by (CD) and appear throughout the graduation requirements. The requirement may be satisfied by completing any one of the graduation requirements with a course marked (CD) or by completing Child Development 156.									
<b>9. General Education: 18 units; 1 course from each areas</b>									
<b>A. Natural Science (3 units)</b>									
<b>B. Social Sciences (3 units)</b>									
<b>C. Humanities:</b>									
1. Interdisciplinary Humanities (3 units)									
2. Arts, Foreign Language, Literature, & Philosophy (3 units)									
<b>D. Lang &amp; Reality:</b>									
1.English Composition (3 units)									
2.Communication & Analytical Thinking (3 units)									
<b>TOTAL UNITS 35-37</b>									

PREREQUISITE COURSES	CERTIFICATE (Requirements)	U N I T S	M E T	I P	N E E D	Transfer Credit
	ENGR 102 Engineering Print Reading for Industry	2				
	WELD 121 General Welding	3				
WELD 121 or equivalent	WELD 122 General Welding	3				
	WELD 123 Occupational Welding	3				
	WELD 124 Occupational Welding	3				
WELD 117 or 121 or equivalent	WELD 125 Advanced Welding Procedures	1				
	MTLGY 150 Principles of Metallurgy and Heat Treating	3				
<b>Choose 6 units from the following</b>						
	BUSAD 158 Introduction to Entrepreneurship	3				
	MACH 107 Machine Practice I	1				
MACH 107	MACH 112 Machine Practice III	3				
	T ED 140 Fundamentals of Engineering Documentation	3				
	TED *142 Technical Mathematics I	3				
WELD 117 or 118 or 125	WELD 126 Occupational Welding Certificate Shop	1				
<b>TOTAL UNITS REQUIRED 24</b>						

\*Non-Degree Applicable

Student / Faculty Notes:

\*\*\*Courses with an asterisk may be counted in one area only.  
\*\*\*Students who complete POL S 101 prior to spring 2014 must also complete POL S 106

**Online Resources**



[www.salarysurfer.cccco.edu](http://www.salarysurfer.cccco.edu)



[www.CaCareerZone.org](http://www.CaCareerZone.org)



1500 North Verdugo Road, Glendale, CA 91208

[Academic Counseling](#) (818) 240-1000 Ext. 5918 [Career Center](#) (818) 240-1000 Ext. 5407 or 5408 SEE A COUNSELOR TO PREPARE A STUDENT EDUCATIONAL PLAN



# Manufacturing and Product

The Manufacturing and Product Development industry sector is an important part of California's economy, producing a wide range of products, including computers, communications equipment, electronic components, high-tech instruments, apparel, metal products, chemicals, plastics, aircraft, ships, missiles and space products, and search and navigation equipment.



**Manufacturing and Product**

**Need a great career plan? Put one together right here.**

**Industrial Machinery Mechanics**  
**\$20.36 - \$30.45**

**Structural Metal Fabricators and Fitters** \$13.29 - \$21.34

**Welders and Brazers** \$12.91 - \$21.09

**Electrical and Electronic Equipment Assemblers** \$10.30 - \$17.28

Source:  
[www.WhoDoUWant2b.com](http://www.WhoDoUWant2b.com)

Once you've learned the core knowledge and skills on this pathway, you'll have the chance to follow one of four different branches: Machine Tools, Welding, Graphic Communications and Graphic Design.

These specialized courses of study will give you the additional skills and real-world experience you need to create everything from incredibly complex machines to eye-popping full-page magazine advertising career for yourself.

## Technical Level Careers

(with AA or AS degree or certificate)

- Commercial Photographer
- Production Manager
- Graphic Artist Journeyman
- Advertising Design
- Multimedia Digital Editor
- CNC Programmer
- Machine Technician
- Tooling Journeyman
- Industrial Electrician
- Carpenters
- Power Plant Operators



**How much can you make?**



## Professional Level Careers

(with BS or BA degree)

- Publisher, Editor
- Production Developer
- Industrial Technology Instructor
- Network Engineer
- Publications Management
- Multimedia Author
- Manufacturing Engineer
- Mechanical Engineer
- Design Engineer
- Fabrication Designer

O\*NET ONLINE

[www.Online.OneToOnline.org](http://www.Online.OneToOnline.org)

Has detailed descriptions of the world of work for use by job seekers, students, researchers, and more! Click on "find occupation".