Welding Code Certificate

This certificate specializes in the American Welding Society Structural Steel Welding Code (D1.1) and Seismic Welding Code (D1.8). Students can select one of three courses to prepare for the Certified Welding Inspector (CWI) exam at AWS testing sites. Students may take all focus courses to assist with preparing for the CWI exam, but only one is needed to earn the certificate.

Total Units: 12

First Year

Semester 1

5.5 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
WELD 100 Z Introduction to Welding & Safety	1.5		F(1st 8 wks), S(1st 8 wks), Su
WELD 110 Z Shielded Metal Arc Welding Procedures **or**	4		F(2nd 8 wks)
WELD 113 Z Flux Core Arc Welding Process	4	WELD 100	S(1st 8 wks)

Z At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the ZTC page of the college website.

Semester 2

6.5 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
WELD 151 Z Welding Industry Training	4	WELD 110, 111, 113, 126, 127, 128, or 129	S(2nd 8 wks)
WELD 153 Z Introduction to Welding Codes	2.5	Advisory WELD 100	

Z At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the ZTC page of the college website.

Career Options/Outlook:

Welders use hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. Typical tasks include operating safety equipment, using safe work habits, and recognizing, setting up, and operating hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment.

A sample of reported job titles:

Aluminum Welder, Fabrication Welder, Fabricator, Fitter/Welder, Maintenance Welder, Mig Welder, Sub Arc Operator, Welder, Welder-Fitter, Welder/Fabricator

Projected job openings in California (2020-2030):

3,890

Projected growth in California (2020-2030):

^You must have passed the prerequisite course(s) with a “C” or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (P) = partially online

11% growth

Median Salary in California (2021):

$48,590/yr

Source:

https://www.onetonline.org/link/summary/51-4121.06

About this program map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the Zero Textbook Costs page of the college website.

Catalog Year: 2025-2026
Published May 17, 2025

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