

Palo Verde College

Program Outline Report

Program Basics

Program Title:	Industrial Steel Welding Certificate of Career Preparation
Program Status:	Active from 2021-22 Summer (2022SU)
Department:	Welding
Award Type:	Certificate of Career Preparation (Credit)
Program/Catalog Description	The Certificate of Career Preparation in Industrial Steel Welding is designed to provide comprehensive occupational training in welding methods currently used in the structural steel industry. Students will be taught entry level skills and the technical knowledge required to operate shielded metal arc welding (SMAW) and flux cord arc welding (FCAW) systems, along with oxyacetylene and plasma arc cutting equipment. They will be prepared for certification testing in AWS D1.1 Structural Steel code. The program also provides continuing education for those already employed as welders and to other professions related to welding technology.
Control Number:	No value
Credential ID:	No value
Transferability:	No value
(SP01) Program TOP Code:	0956.50
(SP01) Program TOP Code:	Welding Technology
(SP02) Student Program Award:	Certificate requiring 6 to fewer than 18 semester units (not approved by Chancellor's Office)
Maximum Credits:	12
Minimum Credits:	12
Curriculum Committee Approval Date:	04/14/2022
Board of Trustees Approval Date:	05/10/2022
External Review Approval Date:	05/10/2022

Proposal Details

Proposal Start:	2021-22 Summer (2022SU)
What changes have been made to the program:	No value
Program Justification:	No value

Submission Rationale

- New Program

Program Requirements

Required Courses (Total 12)

Complete all of the following

WEL250 - Industrial Shielded Metal Arc Welding (SMAW) I	3
WEL251 - Industrial Flux Cored Arc Welding (FCAW) I	3
WEL252 - Industrial Shielded Metal Arc Welding (SMAW) II	3
WEL253 - Industrial Flux Cored Arc Welding (FCAW) II	3

Recommended Sequences

Proposed Sequence

Term 1 (Total 3)

Required Courses (Total 3)

Take one of the following

WEL250 - Ind. Shielded Metal Arc Welding (smaw) I	3
WEL251 - Ind. Flux Cored Arc Welding (fcaw) I	3

Term 2 (Total 3)

Required Courses (Total 3)

Take one of the following

WEL252 - Industrial Shielded Metal Arc Welding (SMAW) II	3
WEL253 - Industrial Flux Cored Arc Welding (FCAW) II	3

Program Outcomes

Industrial Steel Welding Certificate of Career Preparation

PSLO	Performance
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Apply knowledge of codes, standards, and specifications for the purposes of inspecting and testing welds.	70
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Program Narrative

Narrative Item 1. Program Goals and Objectives

The Welding Technology program provides students with a basic background in welding, construction, and fabrication. Students will find employment in the broad spectrum of opportunities available in the welding industry. The program also provides continuing education for those already employed as welders and to other professions related to welding technology.

Narrative Item 2. Catalog Description

The Certificate of Career Preparation in Industrial Steel Welding is designed to provide comprehensive occupational training in welding methods currently used in the structural steel industry. Students will be taught entry level skills and the technical knowledge required to operate shielded metal arc welding (SMAW) and flux cord arc welding (FCAW) systems, along with oxyacetylene and plasma arc cutting equipment. They will be prepared for certification testing in AWS D1.1 Structural Steel code. The program also provides continuing education for those already employed as welders and to other professions related to welding technology.

Narrative Item 3. Program Requirements

<u>Course Number</u>		<u>Course Titles</u>	<u>Units</u>		
		REQUIRED COURSES	Required	Pending	Completed
WEL	250	Industrial Shielded Metal Arc Welding (SMAW) I	3		
WEL	251	Industrial Flux Cored Arc Welding (FCAW) I	3		
WEL	252	Industrial Shielded Metal Arc Welding (SMAW) II	3		
WEL	253	Industrial Flux Cored Arc Welding (FCAW) II	3		
		Total Required	12		

Narrative Item 4. Master Planning (Not needed for Certificates of Career Preparation)

This certificate program fits in to the college mission by allowing students to complete all 4 courses in 1 year. This certificate has been designed so that it can be latticed and stacked with other certificates for students pursuing the AS degree in welding.

Narrative Item 5. Enrollment and Completer Projections (Not needed for Certificates of Career Preparation)

(15) students are expected to complete this certificate each year, based on current and past enrollment.

Narrative Item 6. Place of Program in Curriculum/Similar Programs (Not needed for Certificates of Career Preparation)

This certificate fits into the existing welding program by allowing students the opportunity to complete the certificate in 1 year's time, which will help with student retention in the WEL program.

Narrative Item 7. Similar Programs at Other Colleges in Service Area (Not needed for Certificates of Career Preparation)

The following community colleges in our service area offer welding programs: Imperial Valley College and College of the Desert. Based on Palo Verde College's remote location and industry growth requiring welding in our community, Palo Verde College will bridge the gap by providing new courses and programs that will lead to High Skill - High Demand training and possible employment.

LMI and Analysis

attached

Advisory Committee Recommendations (Not needed for Certificates of Career Preparation)

No Value

Regional Consortia Recommendations (Not needed for Certificates of Career Preparation)

No Value