

**CUESTA COLLEGE
PROGRAM OF STUDY**

Catalog Year: 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020

WELDING TECHNOLOGY Associate in Science

Required Courses (19 credits)

ENGR 226	ENGINEERING DRAWING	4
WELD 270A	BASIC WELDING	3
WELD 270B	ADVANCED WELDING	3
WELD 270C	WELDING: GMAW & GTAW	3
WELD 277	METAL FABRICATION	3
WELD 280A	STRUCTURAL STEEL WELDING CERTIFICATION	3
	or	
WELD 280B	PIPE WELDING CERTIFICATION	3

**Plus 5-6 credits of technical electives from the following:
(Must choose two of the following courses)**

	Units	
WELD 275	BLUEPRINT READING AND INDUSTRY PRACTICES	3
WELD 276	WELDING POWER	3
WELD 273	METALLURGY	3
CTCH 100	WORKPLACE SAFETY	2

Total Units **24 - 25**

PID 369

Program Outcome Report for WELDING TECHNOLOGY

A: Outcome

SLO i Safety Outcome – Demonstrate proper safety practices when working in a welding environment.

Assessment

SLO i Successful completion of safety exam. Completion of industry standard Job Safety Analysis (JSA) forms as they pertain to all equipment and procedures in the shop. Demonstrate correct use of Personal Protective Equipment (PPE) on a daily basis.

Student Survey

B: Outcome

1 Demonstrate welding skills sufficient to meet industry journeyman welder standards.

Assessment

1 American Welding Society D1.1 Structural Welding Certification test with E7018 electrodes and the FCAW process in the vertical and overhead positions.

Student Survey.

C: Outcome

2 Apply integrated knowledge with incremental skill improvement resulting in functional application of welding techniques.

Assessment

2 Demonstrative weld completion and documentation of knowledge progress evaluation.

Student Survey.

D: Outcome

3 Use proper hand, measuring and layout tools to fabricate welding projects.

Assessment

3 Completion of shop projects which incorporate the use of common fabrication tools.

Student Survey.

E: Outcome

4 Apply academic skills in reading, mathematics, chemistry and physics to the application of welding skills

Assessment

4 Record of traditional knowledge assessments followed by hands on application to welding procedures in the laboratory to produce weldments and projects which incorporate said objectives and outcomes.

Student Survey.

F: Outcome

5 Demonstrate work attributes that contribute to personal success and contribute to the goals of the company or organization for which one is employed.

Assessment

5 Completed job portfolios. Professionalism evaluation as part of the grading procedures of each course. Evaluate safety practices through subjective and objective methods.

Student Survey