

Program Assessment Report

Program: Welding Engineering Technology - Associate in Applied Science
Year: 22/23
Division: Business and technology
Contact: James Proctor

Delta College



Actions Taken in Response to Last Year's Report

Rationale for Current Assessments

Assessment 1 of 3

Goal / Project

Outcome(s)

Visually evaluate finished weldments using the American Welding Society D1.1 structural welding code.

Standard / Objective

Students will do this at an 85% success rate.

Method of assessment

Current Student Self Evaluation or Reflection

Comment/Details about the method of assessment

Students will examine their welds and state if they pass visual inspection. If not they must explain why.

Courses Affected

WELD 220

Time Frame

Spring 2023

Submitted By

Result

Result

(2) Results met expectation/standard

How many students

42

Average Score

0

Percent that met standard

89.7%

For GenEd Only

Level 0:

Level 1:

Level 2:

Level 3:

Data Collection (general or specific stats regarding results)

Students took 185 tests and visually examined correctly 166 times(89.73%).

What We Learned (areas for improvements, strengths, etc.)

We learned that what we are doing is working.

Use of Data to Improve Student Success

Continue to teach weld evaluation in every welding class.

Institutional Student Learning Outcome	Action plan items of what is planned based on the data and results	
<input checked="" type="checkbox"/> Apply Knowledge and Skills	<input type="checkbox"/> Change assignments/activities	<input type="checkbox"/> Update course or CC prog conte
<input checked="" type="checkbox"/> Think Critically	<input type="checkbox"/> Change materials provided	<input type="checkbox"/> Update course or CC prog outco
<input checked="" type="checkbox"/> Communicate Effectively	<input type="checkbox"/> Adjust grading rubric	<input type="checkbox"/> Change course sequence or prerequisites
<input type="checkbox"/> Act Responsibly	<input checked="" type="checkbox"/> Continue to monitor and assess next outcome	<input type="checkbox"/> Other
	<input type="checkbox"/> Review or update assessment process	

Assessment 2 of 3

Goal / Project

Outcome(s)

Pass an American Welding Society safety test with 100% accuracy

Standard / Objective

85% of students will pass

Method of assessment

Course or CC Program Embedded Exam or Quizzes

Comment/Details about the method of assessment

Weld tests will pass initial visual inspection along with destructive bend specimen evaluation.

Courses Affected

Weld 220

Time Frame

Spring 2023

Submitted By

Result

Result

(1) Results did not meet expectation/standard

How many students

42

Average Score

0

Percent that met standard

76.0%

For GenEd Only

Level 0:

Level 1:

Level 2:

Level 3:

Data Collection (general or specific stats regarding results)

33 out of 42 passed the safety exam with 100%

What We Learned (areas for improvements, strengths, etc.)

Four of 42 students failed to get a "C" or better in Weld 220. Students attitude regarding a assessment in welding that is not hands-on can be poor.

Use of Data to Improve Student Success

Continue to teach safety in every welding class. We want to explain/discuss with our students how this safety exam is part of their AWS SENSE Certification.

Institutional Student Learning Outcome <input checked="" type="checkbox"/> Apply Knowledge and Skills <input checked="" type="checkbox"/> Think Critically <input type="checkbox"/> Communicate Effectively <input type="checkbox"/> Act Responsibly	Action plan items of what is planned based on the data and results <input type="checkbox"/> Change assignments/activities <input type="checkbox"/> Change materials provided <input type="checkbox"/> Adjust grading rubric <input checked="" type="checkbox"/> Continue to monitor and assess next outcome <input type="checkbox"/> Review or update assessment process <input type="checkbox"/> Update course or CC prog conte <input type="checkbox"/> Update course or CC prog outcc <input type="checkbox"/> Change course sequence or prerequisites <input type="checkbox"/> Other
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Assessment 3 of 3
Goal / Project
Outcome(s)

Apply the knowledge gained in the welding program to pass four welding tests (3G-vertical and 4G-overhead using both the GMAW and SMAW processes) to the American Welding Societies D1.1 Structural Welding Code.

Apply the knowledge gained in the welding program to pass four welding tests (3G-vertical and 4G-overhead using both the GMAW and SMAW processes) to the American Welding Societies D1.1 Structural Welding Code.

Standard / Objective

85% of students will pass

Method of assessment

Capstone Exam/ Mock Prof Exam

Comment/Details about the method of assessment

Weld tests will pass initial visual inspection along with destructive bend specimen evaluation.

Courses Affected

Weld 220

Time Frame

Spring 2023

Submitted By
Result
Result

(1) Results did not meet expectation/standard

How many students

42

Average Score

0

Percent that met standard

80.5%

For GenEd Only

 Level 0:

 Level 1:

 Level 2:

 Level 3:
Data Collection (general or specific stats regarding results)

35 of 42 students earned all four certifications(83%). 185 total test were taken and 149 passed(80.54%). Four students passed both SMAW tests and no FCAW tests. Two students passed one SMAW test and no FCAW tests. One students passed zero tests.

What We Learned (areas for improvements, strengths, etc.)

We learned that what we are doing is working with most students. Students need to be able to better handle the mental pressure of weld testing. Our testing format mimics employment tests.

Use of Data to Improve Student Success

Prepare students for test anxiety. Identify low achieving students earlier and offer support. We want to continue to have high standards. Have our students destructively test more often in other classes.

Institutional Student Learning Outcome	Action plan items of what is planned based on the data and results	
<input checked="" type="checkbox"/> Apply Knowledge and Skills	<input type="checkbox"/> Change assignments/activities	<input type="checkbox"/> Update course or CC prog conte
<input checked="" type="checkbox"/> Think Critically	<input type="checkbox"/> Change materials provided	<input type="checkbox"/> Update course or CC prog outco
<input type="checkbox"/> Communicate Effectively	<input type="checkbox"/> Adjust grading rubric	<input type="checkbox"/> Change course sequence or prerequisites
<input checked="" type="checkbox"/> Act Responsibly	<input checked="" type="checkbox"/> Continue to monitor and assess next outcome	<input type="checkbox"/> Other
	<input type="checkbox"/> Review or update assessment process	

Comments and Action Plan

Discipline/Program Comments

Advisory Board Comments

Assessment Committee Comments

Curriculum Council Comments

Action Plan

Actions Taken in Response to Older Reports