

## Program Assessment Report

Program: Mechatronics Technology - Associate in Applied Science

Year: 18/19

Division: Business and technology

Contact: Diane Lobsiger-Braden

## Delta College



### Actions Taken in Response to Last Year's Report

This is first report on this outcome

### Rationale for Current Assessments

#### Assessment 1 of 1

#### Goal / Project

#### Outcome(s)

Demonstrate comprehension of electrical/fluid power drawings including symbols

#### Standard / Objective

*80% of students will obtain a score of 75% or higher on the drawing electrical/fluid power symbols embedded in the final exam.*

#### Method of assessment

Course Embedded Exam(s)

#### Comment/Details about the method of assessment

The drawing of electrical/fluid power symbols is embedded in the final exam that is given at the end of the semester. Students must utilize skills learned throughout the program and emphasized in this course to properly draw the symbol for numerous electrical and fluid power devices. Students will be scored by a rubric designed by program faculty to evaluate the comprehension of electrical/fluid power drawings and symbols.

#### Courses Affected

SKET130/ET130

#### Time Frame

Fall 2018 to Winter 2019

#### Submitted By

Diane Lobsiger-Braden

#### Result

#### Result

(2) Results met expectation/standard

#### Data Collection (general or specific stats regarding results)

"Data was collected from 84 students over 4 semesters from Fall 2017 through Winter 2019. 97.62% of students scored a 75% or higher on the drawing portion of the final exam. The average score of all students was 70.27 out of 75 for an average score of 93.7%."

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

"There does not appear to be any variation in data that occurs between instructors that are teaching the course. There also does not appear to be any variations or trends over time in student scores. With 97.62% of students meeting the goal and an average score from all students of 93.7% it appears the test may not be challenging enough to accurately measure student learning. "

Use of Data to Improve Student Success

"Modifications will be made to the final exam structure. The final exam will be rearranged so the drawing portion of the exam will be taken first and will be taken without the use of any text books, notes, or Power Points. After the drawing portion of the exam is turned in to the instructor, the students will receive the remaining portion of the final exam and will be allowed to use their text books, notes, and Power Points.

We will closely monitor this approach during Fall semester 2019."

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 checked="" type="checkbox"/> Change assignments/activities	<input type="checkbox"/> Update course content
<input checked="" type="checkbox"/> Think Critically	<input type="checkbox"/> Change materials provided	<input type="checkbox"/> Update course outcomes
<input type="checkbox"/> Communicate Effectively	<input type="checkbox"/> Adjust grading rubric	<input type="checkbox"/> Update prior courses
<input type="checkbox"/> Act Responsibly	<input checked="" type="checkbox"/> Continue to Monitor	<input checked="" type="checkbox"/> Other

**Comments and Action Plan**

**Discipline/Program Comments**

We were pleased that the results met the expectations for the initial assessment of this outcome. We would like to improve the process by requiring the students to draw the electrical/fluid power symbols without the use of their textbooks, notes, or Power Points.

**Advisory Board Comments**

**Assessment Committee Comments**

**Curriculum Council Comments**

**Action Plan**

"Coordinator to rearrange the format of the final exam and share the updated final exam with all instructors that teach the course. Coordinator will closely monitor the results for Fall 2019 and continue to monitor feedback from instructors where problems occur."

**Actions Taken in Response to Older Reports**