Program Assessment Report
Program: Mechatronics Technology - Advanced Certificate
Year: 18/19
Division: Business and technology
Contact: Diane Lobsiger-Braden

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.”

<table>
<thead>
<tr>
<th>Institutional Student Learning Outcome</th>
<th>Action plan items of what is planned based on the data and results</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Apply Knowledge and Skills</td>
<td>☑ Change assignments/activities</td>
</tr>
<tr>
<td>☑ Think Critically</td>
<td>☑ Change materials provided</td>
</tr>
<tr>
<td>☑ Communicate Effectively</td>
<td>☑ Adjust grading rubric</td>
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<tr>
<td>☐ Act Responsibly</td>
<td>☑ Continue to Monitor</td>
</tr>
</tbody>
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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