

Report : Operational Plan Details for : Welding

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Workspace : Program Assessment Plans

Operational Plan : 2018-2020 Assessment Cycle: Use of Results and Status Report

Operational Plan Template : Academic Program Operational Plan Template

Report Generated : Friday, September 04, 2020

Actions and Status Report

Welding Outcome Set (2018-2020)

Outcome

SLO 1

Demonstrate the knowledge of how to properly identify and use basic hand tools.

Action Plan for SLO 1

Action Plan Details:

In review of the 2018-2020 assessment cycle results, students met the performance standards established for both measures of SLO 1. Faculty noted that students that did not meet the goal had a low attendance and participation rate. Also, students who did not do well on this goal may not have properly reviewed the appropriate textbook section related to this goal. Faculty will put more emphasis on study material. Explaining the training material more clearly and emphasizing the importance of attending class should result in a further increase in student performance.

Measures:

Course Alignment: WELD 1110
Acceptable Target: At least 75% of Welding students will be able to recognize and identify some of the basic hand tools and their proper uses in the construction trade.
Measure Description: Written Exam - (Module 00103-09 in NCCER Core Curriculum)

SLO 2

Demonstrate the knowledge and the understanding of how to properly prepare base metals for welding.

Action Plan for SLO 2

Action Plan Details:

In review of the 2018-2020 assessment cycle results, students met the performance standards established for

both measures of SLO 2. Faculty note that students do generally well with content related to SLO 2 assessment but students who didn't typically do well with these goals struggled with attendance, making it harder to get the valuable practice time needed for this goal. Moving forward, faculty will make it more clear how many important it is to attend class every day. Explaining to the students the importance of attending class should result in an increase of the percentage of students completing this goal.

Measures:

Course Alignment: WELD 1130
Acceptable Target: At least 75% of Welding students will be able to identify and describe basic weld joints.
Measure Description: Written Exam (Module 29105-15 in NCCER Welding Level One)

SLO 3

Demonstrate the knowledge and the operations of a CAC (Carbon Arc Cutting) process.

Action Plan for SLO 3

Action Plan Details:

In review of the 2018-2020 assessment cycle results, students met the performance standards established for both measures of SLO 3. Faculty noted that students who didn't do well on these goals had trouble with comprehending some of the test questions and some did not get enough time with hands-on experience for the performance assessment. Faculty will explain and simplify more complex topics, so the students fully comprehend the information given. Also, Faculty will give more hands-on instruction. Explaining the training material more clearly and giving more hands-on instruction for students. This should result in an increase of the percentage of students completing these goals.

Measures:

Course Alignment: WELD 1310
Acceptable Target: At least 85% of Welding students will perform a A-CAC gouge to a uniform width and depth.
Measure Description: Performance Evaluation and Rubric (Module 29104-15 in NCCER Welding Level One)

SLO 4

Demonstrate the knowledge and the ability to make fillet welds using the SMAW (Shielded Metal Arc Welding) process.

Action Plan for SLO 4

Action Plan Details:

In the 2018-2020 cycle, faculty set a high performance standard for success with Module 29109-15 (related to stinger beads). Unfortunately, students performed well (78.3% completion) but not well enough to meet the 85% mark. Faculty found that students who did not perform well on this assessment struggle with understanding the appropriate amperage needed to make a proper weld. More hands-on instruction and more emphasis on machine setup will be utilized. More explanation of machine setup and proper welding amperages should bring student completion up to the target goal of 85%.

Measures:

Course Alignment: WELD 1411
Acceptable Target: At least 85% of Welding Students will properly perform a stinger bead with E7018 electrodes in the Horizontal (2F) position.
Measure Description: Performance Evaluation and Rubric (Module 29109-15 in NCCER Welding Level One)

SLO 5

Demonstrate the knowledge and the ability to make Open Root V-Groove welds using the SMAW (Shielded Metal Arc Welding) Process

Action Plan for SLO 5

Action Plan Details:

In review of the 2018-2020 assessment cycle results, students met the performance standards established for both measures of SLO 5. Students typically perform well with this outcome but the students who don't do well had trouble with test preparations and machine setup. Faculty will put more emphasis on study material as well as hands-on machine and joint setup. This should result in an increase of the percentage of students completing these goals.

Measures:

Course Alignment: WELD 1420
Acceptable Target: At least 85% of Welding Students will be able to make an open root groove weld the Flat (1G) Position with E6010 and E7018 electrodes.
Measure Description: Performance Evaluation and Rubric (Module 29112-15 in NCCER Welding Level One)

