

Bluegrass Community and Technical College
2010-2011 Technical Programs - Assessing Student Learning Outcomes: A Snapshot

Welding

2010-11 Student Learning Outcomes

Activity	Date accomplished	Brief Description
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	8/18/2010	Graduates will demonstrate success in joining, surfacing, and repairing structures made from weldable materials.
2. Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks.	8/18/2010	Comprehensive AWS Structural Steel Code exam to be given with 80% of graduates expected to obtain at least an 80%.
3. Assessment - Perform assessment	April, 2011	Given in last semester of program (spring).
4. Review of Results - Gather and summarize data collected. Analyze and document results.	April, 2011	95% of the students received a score of 80% or above
5. Use of Results for Improvement - "Close the Loop"/use the results to make improvements.	May, 2011	This will be reassessed in 2011-2012, raising the target level of performance to 85%. Additional time will be provided in the lab for review in preparation for the AWS Structural Steel Code Exam.
Activity	Date accomplished	Brief Description
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	8/18/2010	Graduates will be able to use blueprint reading skills required in the welding profession.
2. Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks.	8/18/2010	Fabrication project - Students will use their project to read blue prints as they relate to the fabrication project.AWS Student 1.1. Standard Evaluation with a 1-10 rubric scale with all students will score at least 70% on the rubric.
3. Assessment - Perform assessment	May, 2011	Given in last semester of program (spring).
4. Review of Results - Gather and summarize data collected. Analyze and document results.	May, 2011	All of the students scored at least 70% on the rubric.
5. Use of Results for Improvement - "Close the Loop"/use the results to make improvements.	May, 2011	Even though all of the students scored at least 70% (7.0) on the rubric, additional time needs to be devoted to blue print reading. This will be reinforced on their project in the Fabrication class. In 2011-12 we will also raise the acceptable target from 70% to 75%.
Activity	Date accomplished	Brief Description

1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	8/18/2010	Student will be able to apply knowledge of forming, fitting, and welding processes.
2. Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks.	8/18/2010	Capstone Project to apply knowledge of forming, fitting and welding processes, using AWS Structure Standard evaluation rubric (scale 1-10) with all students scoring at least 70%.
3. Assessment - Perform assessment	May, 2011	Capstone project assessment end of spring semester.
4. Review of Results - Gather and summarize data collected. Analyze and document results.	May, 2011	All students scored at least 70% with the class average score of 8.6.
5. Use of Results for Improvement - "Close the Loop"/use the results to make improvements.	May, 2011	Areas of weakness showed up in the reading of blueprint symbols and basic math calculations. Plan for improvement: