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Bluegrass Community and Technical College 2010-2011 Technical Programs - Assessing Student Learning Outcomes: A Snapshot Industrial Maintenance							
					2010-11 Student Learning Outcomes	Date	
					Activity	accomplished	Brief Description
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	9/2/2010	All of the students completing the technical core will be able to trouble shoot basic machine control. (Danville).					
 Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks. 	9/2/2010	Students success will be evaluated by providing end of semester final (examining the students logical approach the students make in identifying faulty components at 6/8 stations).					
3. Assessment - Perform assessment		Assigned Project.					
4. Review of Results - Gather and summarize data collected. Analyze and document results.		100% of the students were successful at six out of the eight stations.					
 Use of Results for Improvement - "Close the Loop"/use the results to make improvements. 		We will continue to monitor all student projects for content and purpose and tighten the standards in 2011-2012 to success of 7/8 stations. In addition, we will provide more practice in the lab on troubleshooting.					
Activity	Date accomplished	Brief Description					
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	9/2/2010	All of the students will apply industrial principles to troubleshoot mechanical and electrical systems.					
 Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks. 	9/2/2010	During skill finals, students will demonstrate proof of proficiency through faculty observation of successful diagnosis using a rubric. All students will be successful at five out of the six stations.					
3. Assessment - Perform assessment	November, 2010	Assigned Project.					
4. Review of Results - Gather and summarize data collected. Analyze and document results.	December, 2010	100% of the students were successful at five out of the six stations.					
 Use of Results for Improvement - "Close the Loop"/use the results to make improvements. 	December, 2010	We will continue to monitor all student projects for content and purpose with focus on precision alignment on mechanical drives using dial indicators and LASER equipment.					
Activity	Date accomplished	Brief Description					
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	9/2/2010	Students will be able to install, maintain, and troubleshoot pumping stations.					

 Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks. 	9/2/2010	Observation skills final - One station project: Design, install, successful operation of pump station. Rubric will be used for the assessment of the three components with all students scoring a 3 or higher on a 1-5 point rubric.
3. Assessment - Perform assessment	April, 2011	Part 1 - Written Exam related to designing and building fluid power system. All of the students will score at least 75% on questions related to designing and building the fluid power system. Part 2 - Design - A rubric will used with all students scoring above a 3. Part 3 - Build - Using a rubric to evaluate the students ability to build fluid power system based on their design.
 Review of Results - Gather and summarize data collected. Analyze and document results. 	May, 2011	Part 1 - All students scored at least 75% on the written exam related to designing and building fluid power systems. Part 2 - All students scored above 3 (class average = 4.2). Part 3 - All students scored above 3 on the rubric (average = 4.0).
 Use of Results for Improvement - "Close the Loop"/use the results to make improvements. 	May, 2011	We will continue to monitor students ability to install, maintain, and troubleshoot power systems but will tighten the target level of achievement on the exam (from 75% to 80%) and rubrics (from 3 to 4). In addition, one of the areas the students struggled with was the placement of pressure release valves. Increased emphasis will be made on proper placement which will be reflected when this is reassesses in 2011-2012.

Office of Institutional Effectiveness