Assessment, Improvement, Measurement (AIM) Report: 10/08/2013

Plan Year: 2012-2013
Unit: Industrial Maintenance
Coordinator(s): Jarvis Long, Karman Wheeler, Paul Turner, William Cheser
Reviewer: Paul Turner

Objective or Outcome	Measure(s)				
	Measure Text	**Achievement Target**	**Results**	**Achievement Target Result**	**Use of Findings/Next Steps**
SLO 1 - Students will be able to troubleshoot and measure 3-phase power circuits.	Students success will be evaluated by using components of the end of semester lab final related to troubleshooting and measuring three-phase power circuits (examining the students logical approach).	85% of students will successfully complete this portion of the lab final.	82% of students were able to successfully complete the required lab tasks within the alotted time frame.	Partially Met	We will renew emphasis on basic multimeter use in all of our courses.
SLO 2 - Students will be able to perform precision alignment on mechanical drive components using dial indicators and LASER equipment.	Faculty observations on precision alignment of students using a rubric.	85% of students will perform precision alignment on mechanical drive components using dial indicators and LASER equipment through faculty observation (rubric).	This measure was not assessed during this cycle due to equipment breakdown.	Not Assessed in this Cycle	Will rollover to next cycle while attempting to bring equipment online.
SLO 3 - Students will be able to install, maintain, and troubleshoot fluid power systems with emphasis on pressure release valves.	Observation skills final - One station project: Design, install, successful operation of fluid power system. Rubric will be used for the assessment of the three components.	Part 1 - Written Exam related to designing and building fluid power systems. All of the students will score at least 80% on questions related to designing and building the fluid power system. Part 2 - 50% of students will be able to design & build a functioning system on their first attempt. Part 3 -85% of students will be able to troubleshoot their systems and make them work.	Part 1-Students average score on the written design-build questions was 87%. Part 2 - Build and Design - 47% of student designs functioned properly when first assembled in the lab. Part 3- Troubleshooting - 86% of the students were able to troubleshoot and modify to a working system without instructor help. We view this as very significant since it closely replicates a workplace evolution.	Met	Continue to emphasize importance of basic design principles and documentation, with increased time allotted for designing and building.