

Assessment, Improvement, Measurement (AIM) Report: 04/03/2013**Plan Year:** 2011-2012**Unit:** Industrial Maintenance**Coordinator(s):** Kenneth Douglass, Jarvis Long, Karman Wheeler, Paul Turner**Reviewer:** Paul Turner

Objective or Outcome	Measure(s)				
	Measure Text	Achievement Target	Results	Achievement Target Result	Use of Findings/Next Steps
Students completing the Industrial Maintenance Technology program will be able to exhibit a working knowledge of precision alignment on mechanical components and drives.	Perform precision alignment on mechanical drives.	85% of students will perform precision alignment on mechanical drive components using dial indicators and LASER equipment through faculty observation (rubric).	90% of the students were successful based on faculty observation (rubric).	Met	We will continue to work on precision alignment by increasing the requirements for precision alignment, challenging the students with two additional alignment setups to ensure their understanding and skill set.
	All of the students completing the technical core will be able to troubleshoot basic machine control. (Danville)	Students success will be evaluated by providing end of semester final (examining the students logical approach the students make in identifying faulty components at 7/8 stations). Assigned Project. With success at 7 out of the eight stations.	As a result of the additional time on troubleshooting, all of the students were successful in troubleshooting at least seven out of the eight stations.	Met	With the additional time spent on troubleshooting in the lab, students were very successful overall on troubleshooting basic machine control; however we feel 3 phase power circuits appear to be a weakness of several students. We plan to adjust the curriculum content to provide more emphasis on three phase power circuits and will assess the students success on this outcome in 2012-2013.
	Students will be able to install, maintain, and troubleshoot fluid power systems with emphasis on	Part 1 - Written Exam related to designing and building fluid power system. All of the students will score at least 80% on questions	Part 1 - Class average for the written exam was 92%. Part 2 - Nine of Eleven students achieved a 4 or above. Part 3 -	Met	Although most of the students were successful with the design and build of the

	pressure release valves.	related to designing and building the fluid power system. Part 2 - Design - A rubric will used with all students scoring above a 4 . Part 3 - Build - Using a rubric to evaluate the students ability to build fluid power system based on their design. (Note: Compare students placement of pressure release valve between 2010-2011 and 2011-2012.)	All students except for two were able to successfully build the hydraulic system. Note: An increased focus on Pressure Relief Valves over last year proved to be successful. All but two students were able to perform successfully.		hydraulic system, additional emphasis will be placed in this area. Lessons plans will be adjusted accordingly.
SLO 1 - All of the students completing the technical core will be able to trouble shoot basic machine control. (Danville)	Students success will be evaluated by providing end of semester final (examining the students logical approach the students make in identifying faulty components at 7/8 stations).	Assigned Project. With success at 7 out of the eight stations.	As a result of the additional time on troubleshooting, all of the students were successful in troubleshooting at least seven out of the eight stations.	Met	With the additional time spent on troubleshooting in the lab, students were very successful overall on troubleshooting basic machine control; however we feel 3 phase power circuits appear to be a weakness of several students. We plan to adjust the curriculum content to provide more emphasis on three phase power circuits and will assess the students success on this outcome in 2012-2013.
SLO 2 - Students will be able to perform precision alignment on mechanical drive components using dial indicators and LASER equipment through faculty observation (rubric).	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).	90% of the students were successful based on faculty observation (rubric).	Met	We will continue to work on precision alignment by increasing the requirements for precision alignment, challenging the students with two additional alignment setups to ensure their understanding and skill set.
SLO 3 - Students will be able to install, maintain, and troubleshoot fluid power systems with	Observation skills final - One station project: Design, install, successful operation of fluid power	Part 1 - Written Exam related to designing and building fluid power system. All of the students will score at least 80% on questions	Part 1 - Class average for the written exam was 92%. Part 2 - Nine of eleven students achieved a 4 or above. Part 3 -	Met	Although most of the students were successful with the design and building of

<p>emphasis on pressure release valves.</p>	<p>system. Rubric will be used for the assessment of the three components with all students scoring a 4 or higher on a 1-5 point rubric.</p>	<p>related to designing and building the fluid power system. Part 2 - Design - A rubric will be used with all students scoring above a 4. Part 3 - Build - Using a rubric to evaluate the students ability to build fluid power system based on their design. (Note: Compare students placement of pressure release valves between 2010-2011 and 2011-2012.)</p>	<p>All students except for two were able to successfully build the hydraulic system. Note: An increased focus on Pressure Relief Valves over last year proved to be successful. All but two students were able to perform successfully.</p>		<p>the hydraulic system, additional emphasis will be placed in this area. Lesson plans will be adjusted accordingly.</p>
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