

Assessment, Improvement, Measurement (AIM) Report: 12/15/2014**Plan Year:** 2013-2014**Unit:** Computerized Mfg. & Machining - Danville**Coordinator(s):** Karman Wheeler, Danny Roberts**Reviewer:** William Franklin

| Measure(s) | | | | | |
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| Measure Text | Achievement Target | Results | Achievement Target Result | Use of Findings/Next Steps | Assess Month |
| Evaluation using a rubric to show The method of measurement to identify if tolerances where met, was the use of Coordinate Measurement Machine. A program was written by instructor to measure the parts size and perpendicularity. Each Tolerance amount out on size = deduction of 5 pts Each tolerance out on perpendicularity = deduction of 5 pts | All students will score at least 90% based on functionality, usability, and finish of the final product. The level of accuracy required was .0002, on all sizes and perpendicularity on width of block. | The results had an average of 90 %, meeting all required sizes and tolerances | Met | This outcome has been assessed in three cycles. Machine calibrations along with having all of the chucks on the surface grinders and critical setup equipment reground will increase students' success. This has been accessed in three cycles with a new outcome identified for assessment in 2014-2015. | December |
| The method of measurement to identify if tolerances where met, was the use of Coordinate Measurement Machine. A program was written by instructor to measure the parts size and perpendicularity. | The level of accuracy required was .0002, on all sizes and perpendicularity on width of block. | The results had an average of 90 %, meeting all required sizes and tolerances. | Met | The improvement planed is to have all of the setup equipment reground and calibrated. Machine calibrations along with having all of the chucks on the surface grinders and critical setup equipment reground will increase students' success. This has been accessed in three cycles with a new outcome identified for assessment in 2014-2015. | |
| Evaluation Form - Students parts will be measured using metrology equipment to verify part print tolerances have been achieved. | All students will score at least a 85% on the evaluation form. | Students average of all parts produced and defined by print tolerances in course CMM 234 was 93.5 %, which was simply outstanding. | Met | We plan on extending the number of projects required that starts introducing 4 axis cutting on the edm. This will increase students | December |

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| | | | | abilities and job readiness. | |
| Students will be provided orthographic prints and find dimensions through questions and answers. | All students will have an average score 85% or higher on the assessment | Average score was 67% | Not Met | This was the first year offering this online. As a result of the results from this online delivery, it will be offered in person in the fall semester. Since this is the third assessment cycle, a new outcome will be identified for 2014-2015. | April |