Assessment, Improvement, Measurement (AIM) Report: 12/15/2014

Plan Year: 2013-2014
Unit: Computerized Mfg. & Machining - Lexington
Coordinator(s): Mark Welch, Karman Wheeler, Danny Roberts
Reviewer: Kevin Dunn

Objective or Outcome	Measure(s)				
	Measure Text	**Achievement Target**	**Results**	**Use of Findings/Next Steps**	**Assess Month**
SLO 1 - Students will be able to successfully setup and operate CNC and conventional mills and lathes (program outcomes #5 and #10).	To produce a Turner's cube that includes a small radii on cube edges using six different planes.Rubric to evaluate the turner cube	Students will score at least 90% on the rubric used to evaluate the cube.	The students scored 100% on this years cubes.	This outcome has been included in our assessment plan for the last three years. The students have been very successful in meeting our target level of achievement and we will identify a new outcome for the 2014-2015 Assessment Plan. We will continue to use this project as an assessment of the students ability to set-up and operate CNC machines because of the because of the multiple operations involved. This has proven to be a valid process practice project.	October
SLO 2 - Using critical thinking skills the students will be able to incorporate blueprint readings, use of machine tools, understanding print specifications and selecting appropriate materials to developing a working model of an heat driven motor (on first attempt). This will incorporate program outcomes #5, #9 and #10.	Using a blueprint as rubric, and final clinical evaluation (Development of a sterling motor, incorporating blueprint readings, use of machine tools, understanding print specifications and selecting appropriate materials to developing a working model.)	90% of the students will achieve a 90% or higher in the designated areas on the evaluation form.	The students achieved better than 90% on the evaluation form.	This was a good project for teamwork and multiple parts working together. We are changing to another project next year.	April

SLO 3 - Students will be able to demonstrate blueprint reading, use of esprit, and the operation of CNC machines and lathes.	Given a 3D project (turtle car), students will utilize a blue print and use of esprit to develop a 3D model using CNC machines (CNC mill and lathe). A blue print rubric will be used to evaluate the project.	90% of students successfully meeting blueprint tolerance for the car.	The students achieved making all parts to blueprint tolerances.	We are changing to different tasks next year for this class.	April