

**Assessment, Improvement, Measurement (AIM) Report: 04/03/2013****Plan Year:** 2011-2012**Unit:** Computerized Mfg. & Machining - Lexington**Coordinator(s):** Danny Roberts, Karman Wheeler, William Franklin, Mark Welch**Reviewer:** William Franklin

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 successfully (at least 90% on rubric evaluation) produce a operating Turner's cube that includes a small radii on cube edges using six different planes.	Rubric to evaluate the cube	All students will successfully complete the project on the first attempt (at least 90% on rubric evaluation).	All but one student successfully completed the cube on the first attempt.	Partially Met	One of the weaker areas identified is manual boring. Will emphasize manual boring with more hands on experiences in 2012-2013.
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 air driven motor (on first attempt).	Using a blueprint as rubric, and final clinical evaluation (Development of an air driven 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.	90% of the students cored 90 or above on the final blue print reading assessment	Met	The changes required an adjustment of the time allowed to complete the project. But a better understanding of design was achieved. The schedule will be revised next year to allow for the extra time needed to complete the project.
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 (handle), 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 handle.	the students were able to develop and machine 3D surfaces. This class did not have time to complete the handle.	Partially Met	Some of the time was needed for the design changes and modifications for completion of the motors. More time was needed with the CAD department for the students to learn and use Solid Works for the design changes. A better working schedule will be devised for next year.