

BERGEN COMMUNITY COLLEGE

**Assessment Report for (Department and/or Program):
Industrial & Design Technologies: Manufacturing Technology**

Academic Chair: Prof. Matt King

Assessment Period: 2011 - 2013

Submitted by: Prof. Mark Balzarette

1. Intended Outcome (Goal):

Students in the Manufacturing Technology Program will be able to apply the skills of precision measurement in a professional work environment.

2. General Education Requirement(s) to which the intended outcome relates:

Technological Competency or Information Literacy – (Technology)
Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.

3. Section(s) of the Strategic Plan to which the intended outcomes relates:

We will improve student engagement and student success.

1.1 Take steps to increase student retention and student progression through academic programs.

4. Means of assessment, sources of data, and desired result:

For the MFG-122, Machine Tool Principles I classes in Spring and Fall of 2012, the lecture and laboratory coverage of precision measurement using micrometers, calipers and related devices will be expanded. A standard of +/- .001” will be used as the tolerance for maximum precision using these devices to measure assigned student projects. A faculty developed rubric (see below) will be used to grade the projects. The maximum number of points awarded for each feature, if it is within tolerance, is 25. It is expected that 80% of the students will earn a C (70 points) or better on the measurement part of the project. The penalty for lateness is one grade drop for each week it is late, for a maximum of two weeks. Later than two weeks is a failure for that project.

MFG-122							
Project 1							
Student:							
Student ID#							
Feature	#	Maximum Point Value	Within Tolerance	Out of Tolerance . +/- .0005"	Out of Tolerance +/- .010"	Out of Tolerance +/- .015	Value
Percent			100%	80%	70%	60%	
Length	1	25					
Width	2	25					
Height	3	25					
Slot Width	4	25					
						Sub Total	
						Late?	
						Total	

5. Summary of Results:

6. Recommendations for improvement: