

**CHICO STATE UNIVERSITY**  
**ASSESSMENT SUMMARY UPDATE**

PROGRAM: B.S. Sustainable Manufacturing

Year of review	Student Learning Outcome	Describe assessment activity done this year for this SLO	Findings	Based on the results or evidence, what action was taken regarding program improvements?
2016-2017	a. An ability to apply knowledge of mathematics and science to manufacturing systems	Students achieved a score of 60% or higher in the areas of math and science for the CMfgT certification exam	70% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	b. An ability to apply manufacturing concepts in a capstone manufacturing project application	Results from final project	93% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	c. An ability to integrate contemporary computer applications and process automation including the use of sensors, actuators, and controllers to automate machines and processes	Final project report results	100% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	d. An ability to understand the economic, technical, and societal issues involved in manufacturing	Segments of LCA report in SMFG 218. Points in section dealing with societal, environmental and economic aspects of bioplastic part.	83% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	e. An ability to successfully function as team members in a manufacturing laboratory setting	Results of survey of students on participation of other students on team and participation score from instructor	83% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	f. An ability to communicate technical matters effectively in oral form	Safety manual presentation results	93% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	g. An ability to communicate technical matters effectively in written form	Safety manual report results	83% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.

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	h. An ability to communicate technical matters effectively in graphical form	Final CAD project results	90% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	i. An ability to demonstrate project management, quality assurance methods, supply chain management	Exam question results	91% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	j. An understanding of the fundamental behavior of materials and the testing techniques used	Lab report on tensile and hardness testing results	96% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.
	k. An understanding of contemporary manufacturing processes, particularly for parts consisting of manufacturing materials	Final project report results	83% pass rate.	No actions taken, the assessment result did not warrant major actions for program improvement.