



ALAMO
COLLEGES

PALO ALTO COLLEGE

Program Student Learning Assessment Plan/Report

Academic Year 2010-11

Program/Award: Industrial Automation Associate

Program Lead Faculty: Leo Diaz

Department Chair: Dean Shelman

Outcome #1	Identify fluid power symbols; demonstrate knowledge of basic fluid power theory; demonstrate knowledge of component operation; generate basic fluid power circuits; and demonstrate fluid power circuits using electrical and manual controls.
Measures	The final exam in ELMT 1305 Basic Fluid Power Course
Targets	70% of the students will get a D or better on the ELMT 1305 Basic Fluid Power final exam.
Findings	Spring 2008: 6 students took the exam and 6 students passed for 100% pass rate. Spring 2009: 8 students took the exam and 7 students passed for 87.5% pass rate. Fall 2010: 4 students took the exam and 4 students passed for 100% pass rate.
Assessment of Previous Cycle's Action Plan	Create a test blue print for the final Offer the course on a rotating semester basis for larger class sizes and better interaction among the students. Increase hands-on activity.
New Action Plans	Offer in Spring 2011
Outcome #2	Maintain and repair power transmission systems involving gear, V-belt, and chain drives; describe positive displacement and centrifugal pumping systems and compressors; and identify symptoms, causes, and cures for mechanical problems. Demonstrate maintenance, repair, and overhaul procedures on common process pumps and compressors; and apply industrial safety standards.
Measures	The final exam in IEIR 1343 Industrial Equipment Maintenance
Targets	70% of the students will get a C or better on the IEIR 1343 Industrial Equipment Maintenance final
Findings	Spring 2010: 5 students took the exam and 5 students passed for 100% pass rate. Course did not make in Fall 10
Assessment of Previous Cycle's Action Plan	Create a test blue print for the final - Continue Monitor student pre-requisites. - Continue Offer tutoring. - Continue Reduced the amount of work so that students can focus on the quality of the assignment. - Continue
New Action Plans	Offer in Spring 2011
Outcome #2	Operate test equipment; identify various sources of electricity in alternating (AC) circuits; analyze AC circuits using applicable mathematical formulas; and troubleshoot various AC circuits using schematic diagrams.
Measures	The final exam in the CETT 1305 AC Circuits Course.



ALAMO
COLLEGES

PALO ALTO COLLEGE

Program Student Learning Assessment Plan/Report

Targets	70% of the students will achieve a C or better on the CETT 1305 AC Circuits final.
Findings	Spring 2008: 9 students took the exam and 8 students passed for 88.8% pass rate Fall 2009: 9 students took the exam and 7 students passed for 77.7% pass rate. Spring 2010: 3 students took the exam and 3 students passed for 100% pass rate.
Assessment of Previous Cycle's Action Plan	Course has been removed from degree plan and replaced with a combination DC-AC Circuits course (CETT-1409) for better integration of concepts.
New Action Plans	Offer CETT-1409 in Spring 2011