ALAMO COLLEGES

PALO ALTO COLLEGE

Program Student Learning Assessment Plan/Report
Academic Year __2010-11____

Program/Award: Industrial Automation Assistant
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	Develop existing electromechanical systems to meet specific performance criteria; troubleshoot electromechanical systems; and compile documentation to meet industrial standards.
Measures	The final exam in the ELMT 2341 Electromechanical Systems Course.
Targets	70 % of the students will achieve a C or better on the ELMT 2341 Electromechanical Systems final.
Findings	Fall 2007: 9 students took the exam and 4 students passed for 44.4% pass rate. Spring 2009: 3 students took the exam and 3 students passed for 100% pass rate. Spring 2010: 4 students took the exam and 4 students passed for 100% pass rate.
Assessment of Previous Cycle's Action Plan	Develop a test blue print – **In process** Offer the course on a rotating semester basis for larger class sizes and better interaction among the students. **- Continue** Increase hands-on activity. - **Continue** Revise course to reduce the number of lab exercises so students can focus on quality. – **In process.** Explore additional avenues for enhancing course. **Continue**
New Action Plans	Continue to offer the course on a rotating semester basis for larger class sizes and better interaction among the students. Continue to increase hands-on activity. Continue to revise course to reduce the number of lab exercises so students can focus on

	quality. Explore additional avenues for enhancing course.
Outcome #3	Develop ladder logic to utilize advanced PLC functions; compose a ladder logic program to demonstrate an advanced industrial control application; apply advanced programming techniques for specialized applications.
Measures	The final exam in the ELMT 2339 Advanced Programmable Logic Controllers Course.
Targets	70 % of the students will achieve a C or better on the ELMT 2339 Advanced Programmable Logic Controllers final.
Findings	Spring 2007: 7 students took the exam and 5 students passed for 71.4% pass rate. Spring 2009: students took the exam and 7 students passed for 100% pass rate. Spring 2010: 4 students took the exam and 4 students passed for 100% pass rate
Assessment of Previous Cycle's Action Plan	Develop a test blue print – **In process** Offer the course on a rotating semester basis for larger class sizes and better interaction among the students. **- Continue** Increase hands-on activity. - **Continue** Revise course to reduce the number of lab exercises so students can focus on quality. – **In process.** Explore additional avenues for enhancing course. **Continue**
New Action Plans	Continue to offer the course on a rotating semester basis for larger class sizes and better interaction among the students. Continue to increase hands-on activity. Continue to revise course to reduce the number of lab exercises so students can focus on quality. Explore additional avenues for enhancing course.