



A L A M O  
C O L L E G E S

PALO ALTO COLLEGE

**Program Student Learning Assessment Plan/Report**

**Academic Year 2011-12**

**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 2009: 4 students took the exam and 4 students passed for 100% pass rate. <b>Fall 2011 ELMT 1305 Did not make due low enrollment.</b>
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	<b>Offer in Spring2012, Increase advertisements, present to students through I'Best.</b>
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. <b>Offered in Summer II, L. Diaz Taught, 7 students took course, 100% pass rate, &amp; student final grade was an A, average grade 93, Not offered in Fall2011.</b>
Assessment of Previous Cycle's Action Plan	Develop 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. Reduced the amount of work so that students can focus on the quality of the assignment. Explore additional avenues for enhancing course.
New Action Plans	



ALAMO  
COLLEGES

PALO ALTO COLLEGE

### Program Student Learning Assessment Plan/Report

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 Dr. Song taught. 5 academic students took course, 4 passed, 2 As, 2 Bs, 1 F, Average 81.5 overall/passing average 87.
Assessment of Previous Cycle's Action Plan	Develop a test blue print Offer the course on a rotating semester basis for larger class sizes and better interaction among the students. Increase hands-on activity. Reduced the amount of work so that students can focus on the quality of the assignment. Explore additional avenues for enhancing course.
New Action Plans	Offered as a dual listing to increased enrollment.
Outcome #4	
Measures	
Targets	
Findings	
Assessment of Previous Cycle's Action Plan	
New Action Plans	
Outcome #5	
Measures	
Targets	
Findings	



ALAMO  
COLLEGES

PALO ALTO COLLEGE

**Program Student Learning Assessment Plan/Report**

Assessment of Previous Cycle's Action Plan	
New Action Plans	