

2014-15

LMC Program Review (Electrical/Instrument Technology)

Unit Profile	Mission Statement
The area surrounding Los Medanos College is heavily industrialized with 5 refineries, a steel processing company, a large chemical plant, several power plants, a sugar producer, wine bottling companies and several water and sanitation districts. The ETEC advisory board did a survey in 2006 and found that in the three counties surrounding LMC there will be 100 to 150 Electrical and Instrumentation Technicians needed per year for the next 10 years. Manufacturing in the United States went overseas because of lack of skilled workers here. Efforts are being made now to get these job back to the United States and the training provided by the ETEC program at Los Medanos College will be a major player in providing the skilled workforce needed to run these plants. The ETEC Program trains Electricians and Instrumentation Technicians to fill the industrial maintenance jobs in our area. The local industry has previously had to go out of state to fill these high skilled high wage positions. A large percentage of the present maintenance workforce is eligible to retire and the ETEC program is preparing candidates to fill these positions as they occur.	The mission of the ETEC program is to address these important needs in our community: 1. To reduce the number of unemployed in our area. 2. Provide a trained skilled workforce for our local industry. 3. To improve the economic future of this area by educating workers to not only be technicians but also to become managers.

Objectives Section I:

#	Objective Title	Objective Description	Rationale	Activities	Lead 1	Lead 2	Timeline 1	Timeline 2
1	Increase the effectiveness of the Analytical Instrumentation course.	The Analytical Instrumentation course needs equipment that can be used for hands on labs for the students to enhance the theory taught in this course.	Equipment is needed to improve the quality of instruction of the Analytical Instrumentation course by allowing students to perform hands on labs to properly analyze the product quality and environmental discharges. Safety of not only the plant operators but also the surrounding community depends on proper calibration and use of the equipment.	The instructor of the Analytical Instrumentation course is compiling a list of equipment needed to provide quality hands on experience for the students. Order and install the appropriate equipment. Write labs to include using this new equipment.	Cecil Nasworthy	Sabastian Enea	2014FA	possible multi year project

At this time only a limited amount of analytical equipment is available to the ETEC students. More equipment is required				
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Objectives Section II:

#	RAP Request	Maintenance Request	Maintenance "Other"	Program SLO	College Strategic Priority	District Strategic Plan
1	Program improvement			Gain entry-level or mid-level employment in the electrical or instrumentation field.	Increase and accelerate student completion of basic skills sequences.	GOAL 1: STUDENT LEARNING AND SUCCESS

Objectives Section III:

#	Status	Status Reason	Improvement	Modified By	Modified On
1				cnasworthy891	2/11/14

Core Indicators:

Core Indicator		1. Skill Attainment		2. Completion		3. Persistence and Transfer	
State Program		89.29%	94.44%	77.47%	65.00%	83.54%	72.64%
Plan for Improvement		Above State Target		Many students complete the ETEC courses but still lack academic courses to earn the certificate. Once they have the skills they get jobs and come back at night to complete the missing courses. New classes are being counseled to complete the academic courses as scheduled. Employers are also being asked to not hire until the certificate is earned.			
Core Indicator		4. Employment		5a. Non-Traditional Participation		5b. Non-Traditional Completion	
State Program		74.91%	91.18%	20.55%	3.70%	23.56%	1.85%

Plan for Improvement	Above state target	The occupations that ETEC educates for are traditionally male majority. Only a few females are found in the industry. Even though females that complete the program do well on the job, we have a hard time recruiting females. Advertising and brochures feature females and each time presentations are made to groups it is stressed that females succeed in this field and industry is anxious to hire them.	Nontraditional usually means single parents primarily moms in the ETEC program. This is a very demanding program and any time missed is hard to make up. Support is sought from Los Medanos's resources such as EOPS and financial aid. Counselors are also called in to help arrange help.
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Program SLO:

PSLO#	Learning Outcome	Rationale for Change	Aligned
1	Gain entry-level or mid-level employment in the electrical or instrumentation field.		Yes
2	Troubleshoot, analyze, operate, repair, and install electrical systems equipment.		No
3	Communicate the technical status of equipment in writing and verbally; be able to work and communicate with teams.		No
4	Safely use electrical or instrumentation test equipment.		No
5	Demonstrate the operational concepts of equipment and technology used in the electrical or instrumentation field.		No
6	Demonstrate the skills and knowledge necessary to take and pass certification exams for career advancement in electrical or instrumentation fields		No

Course-Cohorts:

Year #	Course N°	Assessed	COOR Updated	Objective Needed	Objective Written
3	ETEC-040	No	No	No	No
3	ETEC-042	No	No	No	No
3	ETEC-044	No	No	No	No

3	ETEC-046	No	No	No	No	No
2	ETEC-030	No	No	No	No	No
2	ETEC-032	No	No	No	No	No
2	ETEC-034	No	No	No	No	No
1	ETEC-004	No	No	No	No	No
1	ETEC-010	No	No	No	No	No
1	ETEC-012	No	No	No	No	No
1	ETEC-020	No	No	No	No	No
1	ETEC-022	No	No	No	No	No
1	ETEC-024	No	No	No	No	No