

Org-Type	CTE Higher-Education-based Government-based		
Lead	El Camino College	PoC	David Gonzales
PoC-Phone	310-973-3170	PoC-Email	dgonzales@elcamino.edu
Address	13430 Hawthorne Blvd Hawthorne, CA 90250		
URL	<a href="http://www.PLTW.org/index.cfm">http://www.PLTW.org/index.cfm</a>		
Service-Region	Southern California		
Type	Professional Development for Teachers Student Program		
Subjects	General Science Math Computer Science Engineering Robotics Technology		
Level	High School (9-12th grade)		
Other-Objectives	Hands-on instruction directly linked to a variety of career paths in engineering, technology and manufacturing to keep students interested and in school while creating a pipeline of new technical workers to support the critical manufacturing base in the L.A. region		
Served-per-Year	1200	Demographics	
Content	<p>The project utilizes Project Lead the Way curricula, a nationally recognized pre-engineering program. PLTW is a 501(c)(3) non-profit corporation with the goal of growing the nation's technology workforce. The high school pre-engineering curricula it has developed is : standards based rigorous and relevant program utilizing hands-on project based learning that also strengthens the core academic curricula while leading to 2-year and 4-year degrees. Its foundation course, Principles of Engineering, is a project based course that teaches engineering, materials science, structural design, applied physics, automation/robotics, embedded processors, drafting and design. El Camino College has 5 engineering technology courses that parallel the PLTW courses: Principles of Engineering Technology, Introduction to Engineering Design, Electronics for engineering Technologists, Computer Integrated Manufacturing, and Engineering Design and Development. El Camino College also provides Robotics courses that teach students basic design, fabrication, assembly, an prototyping skills and that prepare them for robotics competitions. Several high schools have participated in the FIRST Robotics Competition in the past few years.</p>		
Outcomes	Prepare future engineering and technicians with a relevant and project based curricula that will help them succeed in college and university engineering programs.		
Started	6-Jun	Funded-Through	9-Dec
Length	One-time	Cost	\$750,000
Primary-Funding	Government	Primary-\$	100%
Materials	Robotics kits, course materials, PCs, equipment, instructor training including travel.		
Other-Funding	None		
How-Assessed	Exams and observation		
Best-Practice-Why	<p>Yes. PLTW supports STEM education by having the high school students participate in a hands-on, activity oriented program that utilizes team efforts. The courses, which include Computer Integrated Manufacturing and Principles of Engineering complement math and science college preparatory programs to establish a solid background in engineering and technology. PLTW takes mathematics and science out of the confined realm textbooks and into the challenges of the real world, demonstrating to students the endless possibilities that are before them.</p>		
Promising-Practice	N/A		
Sponsor	Diane Woodruff	Sponsor-Org	CA Community College Chancellor's Office
Sponsor-Phone	916.445.8752	Sponsor-Email	info@cccco.edu
Other-Orgs	Local high schools and community business partners.		