

Final Report Program Information by TOP Code

District/College: CERRITOS CCD/CERRITOS COLLEGE
 Program Title: Engineering Technology, General

Agreement No.: 17-C01-006
 TOP Code: 092400

Briefly describe the program improvement issue(s) concerning this TOP code.			
There are two major issue for engineering technology program at Cerritos College, and they are a) increasing student enrollment, b) obtaining qualified instructors. The other issues facing the ET program is the contextualization of knowledge, especially in the area of electrical and electronics engineering technology. At the moment of this writing Cerritos College has a lack of qualified instructors to teach most of the electrical topics, and does not have any equipment to contextualize electronics learning by making the printed circuit boards. Core Indicator 3 need to be addressed and so does many others.			
Briefly describe how the issue(s) will be addressed.			
1.Increase exposure of ET program to local high school through participation through PLTW activities. With expiration of the AMTELL grant, its crucial to use Perkins funding for continuous access to PLTW portal and software. 2.Increase exposure of ET program through exhibiting and promotions at local makertfaire and similar shows. 3.Raising awareness by participating in national students competitions. 4.Train currently employed full time and part time ENGT instructors for teaching motor control and process control classes by attending Amatrol and PLTW training and national ET-related conferences. 5.Obtain equipment for fabrication of printed circuit boards, so that the ET-EET students can contextualize their learning.			
Final Report Summary:			
1. Was the program improvement issues(s) addressed and/or planned objectives met (Narratives limited to 1000 characters)? If the response in Section 1 is No or Partially describe the barriers and/or lessons learned in Section 2. If the response in Section 1 is Yes or Partially describe the accomplishment and/or effective practices derived from the project in Section 3			
Select <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially			
2. Describe any barriers encountered and lessons learned (Narratives limited to 1000 characters).			
3. Describe accomplishments/best practices derived from the project (Narratives limited to 1000 characters).			
With introduction of the 3 new certificates centered around the PLTW classes, we were able to increase student enrollment and completion. We have obtained the PCB manufacturing equipment and are in search of qualified electrical instructors. Furthermore current ET instructors plans to take additional training in electrical and mechatronics area in the next fiscal year and combining training equipment with PMT program for mechatronics training (injection molding machine).			
Requirement for Uses of Funds	MET	UNMET	NOW MET
1. Strengthening the academic, and career and technical skills of students participating in CTE programs through the integration of academics with CTE programs. [§135(b)(1)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Link CTE at the secondary and the postsecondary levels, including by offering elements of not less than one program of study described in §122(c)(1)(A). [§135(b)(2)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Provide students with strong experience in and understanding of all aspects of an industry, which may include work-based learning experiences. [§135(b)(3)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Develop, improve, or expand the use of technology in CTE, which may include training to use technology, providing students with the skills needed to enter technology fields, and encouraging schools to collaborate with technology industries to offer internships and mentoring programs. [§135(b)(4)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Provide in-service and pre-service professional development programs to faculty, administrators, and career guidance and academic counselors involved in integrated CTE programs, on topics including effective integration of academics and CTE, effective teaching skills based on research, effective practices to improve parental and community involvement, effective use of scientifically based research and data to improve instruction. Professional development should also ensure that faculty and personnel stay current with all aspects of an industry; involve internship programs that provide relevant business experience; and train faculty in the effective use and application of technology. [§135(b)(5)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Develop and implement evaluations of the CTE programs carried out with Perkins I-C funds, including an assessment of how the needs of special populations are being met. [§135(b)(6)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Initiate, improve, expand and modernize quality CTE programs, including relevant technology. [§135(b)(7)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Provide services and activities that are of sufficient size, scope and quality to be effective. [§135(b)(8)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Provide activities to prepare special populations, including single parents and displaced homemakers enrolled in CTE programs, for high-skill, high-wage or high-demand occupations that will lead to self-sufficiency. [§135(b)(9)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Describe specific future activity(ies) intended to address the remaining unmet requirement(s) (Narratives limited to 4000 characters):			
Final Report of Expenditure by TOP Code: \$45,410			
<input checked="" type="checkbox"/> Professional Dev. (including stipends)	<input checked="" type="checkbox"/> Instructional Materials Purchase/Replacement (including software)		
<input checked="" type="checkbox"/> Instructional Equipment Purchase/Replacement	<input type="checkbox"/> Project Administration		
<input type="checkbox"/> Facility rental/lease (off-campus location)	<input type="checkbox"/> Programs/Services for Special Populations		
<input type="checkbox"/> Curriculum Development	<input checked="" type="checkbox"/> Consultants or Other Contracted Services		
<input checked="" type="checkbox"/> Program Marketing and Outreach	<input checked="" type="checkbox"/> Other(specify) <u>CTE Coordinator assist in ad</u>		