

Local Application Program Information by TOP Code

College: CERRITOS COLLEGE

Agreement No.: 17-C01-006

Program Title: Machine Tool Technology

TOP Code: 095630

Briefly describe program improvement issue(s) concerning this TOP code and include specific examples. (Limited to 2,000 characters, or approximately ½ page of text.)

The Machine Tool Technology Program scored below the district negotiated levels in indicators 2, 3, 5a & 5b. The reported outcomes indicate that the program should focus on completions, persistence, and transfer, and non-traditional participation and completion. The persistence indicator is low due to the usually strong job economy for students and the continual retirement aging workers within the industry. Most students tend to update their skill sets up to the point needed in their employment. These students usually do not have a direct incentive or motivation for completion after completing the minimum amount of courses needed for their employment. Transfers continue to be a challenge as few programs closely relate to Machine Tool Technology at the university level. Non-traditional participation and completion outcomes are still an issue as is common in most manufacturing-related male-dominated industries.

Briefly describe how the issue(s) will be addressed. (Limited to 2,000 characters, or approximately ½ page of text.)

The program currently makes various efforts for improvement. The program provides, monitors, and assists students with a progress checklist that tracks their progress towards completion of certificate and/or graduation requirements. The program continues to work with campus counseling and career services to assist students through course planning, options for transferring, and employment opportunities. The program continually assesses current industry needs and trends to update course content where appropriate. Part of this continual assessment involves ongoing efforts to introduce and provide advanced machining courses within the program. This provides an incentive for students to maintain enrollment or return for degree completion as it provides them with opportunities to seek and meet the requirements for positions in the industry beyond their current skill sets. Additionally, the program collaborates with the other technical programs on campus such as engineering design, plastic manufacturing, and welding in order to provide students a well-rounded technical education that could also motivate students to seek further education to fulfil intellectual and practical curiosity. The program continues to participate in outreach activities such as Majors Day, Manufacturing Day, local High School Career Days, and Non-traditional Careers for Women events. Finally, the program maintains articulation agreements with local high schools and has plans for further expansion.

>Below are the nine §135(b) Requirements for Uses of Funds. Programs receiving these funds must meet these requirements. Indicate with a check mark those requirements that the program currently meets (met). Any remaining unmet requirement(s) must be addressed with completed or ongoing activities by June 30 for reporting in the final report. Note: All nine required uses of funds must be met by the end of the Act or each year until reauthorization. Funds may also be used for the permissive activities specified in number 10.		Indicate with a check mark which requirements have been met, below.	
Requirements for Uses of Funds		MET	UNMET
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"/>
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"/>
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"/>

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"/>
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"/>
6.	Develop and implement evaluations of the CTE programs carried out with Perkins IV funds, including an assessment of how the needs of special populations are being met. [§135(b)(6)]	<input checked="" 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"/>
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"/>
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"/>

FOR THOSE REQUIREMENT(S) LISTED ABOVE AS "UNMET:

Describe specific activity(ies) intended to address the unmet requirement(s) (Limited to 2,000 characters, or approximately ½ page of text.)

10. Permissive Uses Per Section 135(c)(check activities to be funded with CTE funds)

- 1. Involve parents, businesses, and labor organizations, in the design, implementation and evaluation of CTE programs. [§135(c)(1)]
- 2. Provide career guidance and academic counseling for students participating in CTE programs, that improves graduation rates and provides information on postsecondary and career options, and provides assistance for postsecondary students and adults, [§135(c)(2)]
- 3. Local education and business partnerships, including work-related experiences for students, adjunct faculty arrangements for qualified industry professionals and industry experience for teachers and faculty. [§135(c)(3)]
- 4. Provide programs for special populations. [§135(c)(4)]
- 5. Assisting career and technical student organizations. [§135(c)(5)]
- 6. Mentoring and support services. [§135(c)(6)]
- 7. Leasing, purchasing, upgrading or adapting equipment, including instructional aides and publications (including support for library resources) designed to strengthen and support academic and technical skill achievement. [§135(c)(7)]
- 8. Teacher preparation programs that address the integration of academic and CTE and that assist individuals who are interested in becoming CTE faculty, including individuals with experience in business and industry. [§135(c)(8)]
- 9. Developing and expanding postsecondary program offerings at times and in formats that are accessible for all students, including through the use of distance education. [§135(c)(9)]

- 10. Developing initiatives that facilitate the transition of sub-baccalaureate CTE students into baccalaureate degree programs, including articulation agreements, dual enrollment programs, academic and financial aid counseling and other initiatives to overcome barriers and encourage enrollment and completion. [§135(c)(10)]
- 11. Providing activities to support entrepreneurship education and training. [§135(c)(11)]
- 12. Improving or developing new CTE courses, including the development of programs of study for consideration by the state and courses that prepare individuals academically and technically for high-skill, high-wage or high-demand occupations and dual or concurrent enrollment opportunities. [§135(c)(12)]
- 13. Developing and supporting small, personalized career-themed learning communities. [§135(c)(13)]
- 14. Providing support for family and consumer sciences programs. [§135(c)(14)]
- 15. Providing CTE programs for adults and school dropouts to complete secondary education or dropouts to complete secondary education or upgrade technical skills. [§135(c)(15)]
- 16. Providing assistance to individuals who have participated in services and activities under this Act in continuing their education or training or finding an appropriate job. [§135(c)(16)]
- 17. Supporting training and activities (such as mentoring and outreach) in nontraditional fields. [§135(c)(17)]
- 18. Providing support for training programs in automotive technologies. [§135(c)(18)]
- 19. Pooling a portion of such funds with a portion of funds available to other recipients for innovative initiatives. [§135(c)(19)]
- 20. Supporting other CTE activities consistent with the purposes of the Act. [§135(c)(20)]

NOTE: If you indicate CTE funds are being used for the specified activities below, then there must be funding for the activity(ies) indicated in the line item budget for that TOP Code program(s) funded.

Check all types of activities to be funded with CTE Funds:

- | | |
|--|---|
| <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 checked="" 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) CTE Coordinator assists in |

Check one: UNMET REQUIREMENTS WILL BE ADDRESSED:

- Entirely with CTE Funds
- Entirely with Other Funding Sources
- Using Both CTE and Other Funding Sources