

Local Application Program Information by TOP Code (& Final Report)

2014-2015

District/College: RSCCD/ Santa Ana College **Agreement No.:** XX-C01-XX
Program Title: Engineering Department **TOP Code:** 0953.00

Title of Proposed Project/Activity		Modernization and Enhancement of CAD Technology Program	
Department/Division		ENGINEERING/ BUSINESS	
Project Director		Craig D Takahashi	
Project Director's Phone #	714-564-6306	Email	<u>Takahashi_craig@sac.edu</u>
Division Dean	Allen Dooley		
Dean's Phone #	714-564-6750	Email	<u>Dooley_allen@sac.edu</u>
TOP Code	0953.00	TOP Code Title	Drafting Technology

Funding Rationale

Based upon a review of the Core Indicators Report for your program, which of the following core indicators will be addressed in this plan?

- 1P1 – Technical Skill Attainment – Successful course completion
- 2P1 – Credential, Certificate or Degree – Student program completion
- 3P1 – Student Persistence or Transfer – Higher Education
- 4P1 – Student Placement – Employment
- 5P1 – Nontraditional Participation – DISTRICT PRIORITY
- 5P2 – Nontraditional Completion – DISTRICT PRIORITY

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)

CAD (computer-aided) drafting & design is an essential technical skill required of drafters, designers, & technicians across every branch of engineering. These programs constantly evolve to enhance productivity, incorporate increasingly complex designs, & increasingly integrate multiple areas of the engineering process. Designers, drafters, & technicians in the engineering field must be proficient in the latest CAD programs to be competitive in the job market, where businesses continually move to the most advanced CAD software to enhance productivity. CAD technology and environmental technology are fundamentally technology-based fields.

The software and tools utilized by industry and employers who hire engineers has become progressively more complex and technology resource intensive. In response to this SAC's Engineering Department is creating, developing, and improving its program content to address this industry driven requirement. These areas of study require classrooms that

are equipped with modern technology. With this technology in place SAC's Engineering Department will be positioned to prepare SAC engineering students for well paying careers in CAD program technology. This proposal specifically targets the type of technology required to meet the needs of SAC's engineering students.

Engineering seeks to modernize and enhance the computer technology in its classrooms. This modernization will allow students to learn the latest industry-used CAD software, which will in turn make them competitive for these technical jobs. This project also allows lessons to be delivered in multiple formats which appeals to a variety of student learning styles. By utilizing multiple student learning modalities, student success and retention can be improved. This is especially important for non-traditional learners.

What is your projected completion date?

June 2015

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

Overall, this program will help SAC develop programs that keep pace with rapid advances in engineering & environmental technology, CAD, & surveying. Students will be better prepared with the highest level of technical skill necessary to be competitive for these high-tech jobs. This program will help SAC engineering keep pace with industry demands and it will help students be prepared and competitive for jobs in these technology areas.

Funds will be used to:

1. Modernize the engineering classroom with new computers. Modern computer technology is required for the latest design software that is used in the corporate world. Students must learn the latest, most advanced design software to be competitive in the job market. This enhancement will allow students to learn the latest in design technology, utilizing the types of software that will help them get jobs. This includes industry-demanded programs that utilize 3D parametric technology in the architectural & civil engineering areas (AutoCAD, Civil 3D, Revit), the mechanical, manufacturing, aerospace, & industrial areas (CATIA V5, Solidworks, Creo), and in the GIS areas (ArcGIS). This modernization also enhances classroom lessons by allowing multiple deliveries so as to appeal to a variety of student learning styles. This should improve student success and retention, especially with non-traditional learners.

2. Promote the drafting/design technology programs (flyers, brochures, mailings).

Other activities that do not require funding from this grant include:

1. Enhance coordination & relationships with local high schools, four-year institutions, & other SAC departments, including manufacturing technology & automotive areas (which provide engineering students with hands-on fabrication skills).

2. Expand & promote program to enhance enrollment & completions of a broader range of students, including non-traditional groups & special populations.

Final Report summary *(this yellow shaded sections are for Final Report)*

1. Was the program improvement issue(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 Yes No Partially *(Complete the following narrative section(s) as appropriate.)*

2. Describe any barriers encountered and lessons learned – Required if the response to Question 1 is **No** or **Partially**.
 (Narratives limited to 1000 characters, or approximately one quarter page of text).

3. Describe accomplishments including effective practices derived from the project
 (Narratives limited to 1000 characters, or approximately one quarter page of text).

Final Report of Expenditures: \$ _____ *(Resource Development will have this amount for Final report)*

Professional Dev. (Including stipends)	Instructional Materials Purchase/Replacement (Include software)
Instructional Equipment Purchase/Replacement	Programs/Services for Special Populations
Facility rental/lease (off-campus location)	Consultant or Other Contracted Services
Curriculum Development	Other (specify)
Program Marketing & Outreach	

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	For Final Report if the UNMET activity is 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)]	X		
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)]	X		
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)]	X		
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)]	X		

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)]	X		
6. Develop and implement evaluations of the CTE programs carried out with Perkins funds, including an assessment of how the needs of special populations are being met. [§135(b)(6)]	X		
7. Initiate, improve, expand and modernize quality CTE programs, including relevant technology. [§135(b)(7)]	X		
8. Provide services and activities that are of sufficient size, scope and quality to be effective. [§135(b)(8)]	X		
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)]	X		

FOR THOSE REQUIREMENT(S) LISTED ABOVE AS "UNMET:"
 Describe specific activity(ies) intended to address for each of the unmet requirement(s). (Limited to 2,000 characters, or approximately 1/2 page of text.)

FOR THOSE REQUIREMENT(S) LISTED ABOVE AS "UNMET:"
 Describe specific future activity(ies) intended to address for each remaining unmet requirement(s). (Limited to 4,000 characters)

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

<input checked="" type="checkbox"/>	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)]
<input checked="" type="checkbox"/>	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)]
<input checked="" type="checkbox"/>	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 checked="" type="checkbox"/>	Programs/Services for Special Populations
	Facility rental/lease (off-campus location)		Consultants or Other Contracted Services
	Curriculum Development		Other (specify)self evaluation for improvement of the program
<input checked="" type="checkbox"/>	Program Marketing and Outreach		

Check one: UNMET REQUIREMENTS WILL BE ADDRESSED:

<input type="checkbox"/>	Entirely with Perkins Funds
<input type="checkbox"/>	Entirely with Other Funding Sources
<input checked="" type="checkbox"/>	Using Both Perkins and Other Funding Sources

PROVIDE DETAILED BUDGET

Department Code: 15150

Budgeting Category/Description	Fund Requested		
	Instructional	Non-Instructional	TOTAL
1000 – Faculty salaries	0	0	0
2000 – Classified salaries (Instructional Assistant)	0	0	0
3000 – Benefits (based on 2013/14 benefits) Part-time faculty & beyond contract (13.15%) P/T short-term classified (6.2% of wages) P/T ongoing classified (22.542%) Full-time classified (22.542% of wages + health & life insurance (maximum \$22,374.12) & fringe ben.\$1,486.36)	0	0	0
4000 – Supplies & Materials Reference Books; Instructional Supplies; Supplies Technology – no promotional materials/favors	0	0	0
5000 – Other Operating Expenses & Services Conference, consultants, contracts, printing, software license & fees, maintenance contract	0	\$2,000	\$2,000
6000 – Capital Outlay Equipment, software over \$1,000 (no furniture)	\$59,400	0	\$59,400
Total Funding Requested			\$61,400

Note: Final Report of expenditures will be reported according to the following categories:

- a. Curriculum Development/Instruction
- b. Professional Development
- c. Counseling/Direct Services to Students
- d. Other: You must provide a description of programs/services funded
- e. Administration (not to exceed 5% - reserved for DO)

PLEASE NOTE CARL PERKINS IV FUNDS MAY ONLY SERVE CAREER-TECHNICAL STUDENTS

Budget Questions/Clarifications:

All quantities are rounded to nearest dollar.
 Computers (50x \$1296), promotional supplies/brochures (\$2k)

Acceptance of requested funds entails a responsibility for developing a project plan and final report. All 9 mandated activities must be achieved. Each department must submit a copy of their Advisory Committee Minutes to the Career Education & Workforce Development Office.



Project Director

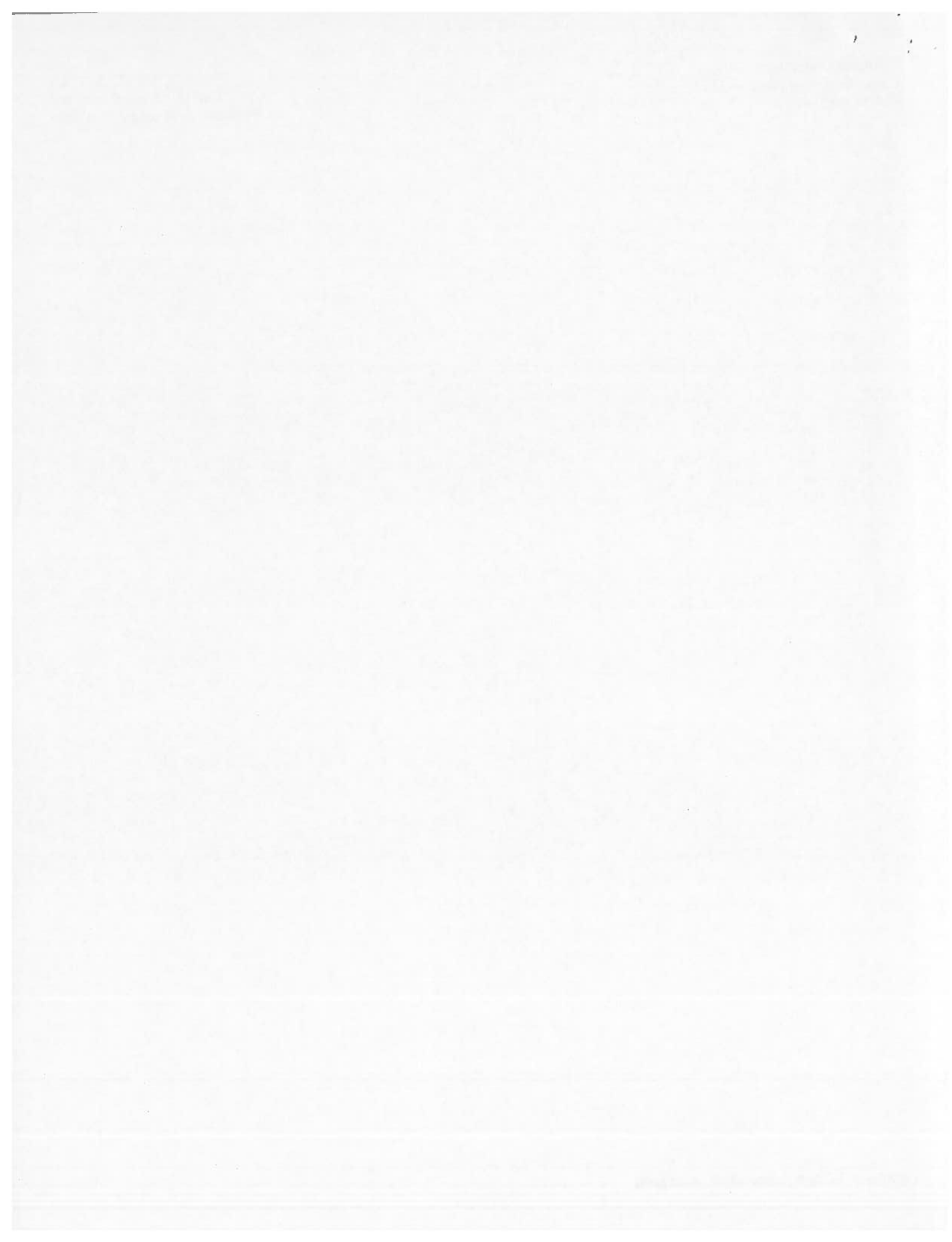


Division Dean

Date: 3/19/2014

Date: 3-19-2014

Perkins IV I-C application (& Final Report)



**Section II Part B
Perkins Career and Technical Education Act (Title IC) – Local Application (& Final Report)
Program Information by TOP Code**

College/District: RSCCD –

Agreement #: XX-C01-042

0953.00 Retain in District Audit Files

TOP CODE(s): _____

Section 135(b) Requirements

Program Title: _____

Column A	Column B	Column C	Column D	Column E
<p>Column A</p> <p>Refer to the District's 2008-2012 Local Plan for Title I, Part C, Section 132 Funds, Carl D. Perkins Career and Technical Education Act of 2006 (Perkins).</p> <p>Check the corresponding Section II Part A form for the Met/Unmet "Requirements for Use of Funds."</p> <p>Note: Each TOP Code identified for funding must meet each of the nine requirements by the end of the Act or each year until reauthorization.</p> <p>Section 135(b) Requirements</p> <p>1. Strengthening the academic and career and technical skills of students participating in CTE programs through the integration of academics with CTE programs.</p>	<p>Column B</p> <p>Describe activities to be conducted to address Perkins Section 135(b) requirements listed in Column A.</p> <p>1. Under the appropriate requirement, describe activities to be funded by Perkins Title IC to improve or expand the identified 4- or 6-digit TOP Code career and technical education programs.</p> <p>2. For each Section 135(b) requirement listed in Column A, number each activity separately (i.e., 1.1, 1.2, etc.).</p> <p>3. If an activity meets more than one requirement, reference the number of the activity stated previously (i.e., same as 1.2).</p> <p>PLEASE BE SPECIFIC SINCE THESE ACTIVITIES WILL BE AUDITED!</p>	<p>Column C</p> <p>Enter applicable number in appropriate column below.</p> <p>Core Indicator addressed by the activity listed.</p> <p>1 = Tech. Skill Attainment 2 = Credential/Certificate/ Degree 3 = Student Persistence or Transfer 4 = Student Placement 5 = Nontrad. Participation 6 = Nontrad. Completion</p>	<p>Column D</p> <p>Designate source of funds to be used by assigning a number as shown below:</p> <p>1 = Perkins IC 2 = Other funds 3 = Both 4 = No funds needed</p>	<p>Column E</p> <p>Status of Activity:</p> <p>1 = Planned 2 = Started 3 = Continuing 4 = Completed</p>
<p>Section 135(b) Requirements</p> <p>1. Strengthening the academic and career and technical skills of students participating in CTE programs through the integration of academics with CTE programs.</p>	<p>Activities</p> <p>Activities list in the application (local application)</p> <p>Outcome by the end of the fiscal year (final report)</p> <p>1. Provide students with modern computer technology in the classroom. This allows students to keep pace with the rapid advances in CAD technology and be competitive for jobs after leaving school.</p> <p>2. Provide students with the latest, industry-demanded CAD software (including AutoCAD, CATIA V5, Creo, Solidworks, Microstation, & Revit Structure & MEP, Civil 3D).</p>	<p>Core Indicators</p> <p>1, 2, 3, 4, 5, 6</p>	<p>Source of funds</p> <p>1</p>	<p>Status</p> <p>Status of activity at the beginning (local application)</p> <p>Status of activity at the end of the fiscal year (final report)</p> <p>3</p>
<p>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).</p>	<p>COMPLETED</p> <p>1. The program presently has articulation agreements with local high schools (e.g., Valley High School Academics, Inc.) and CCROP in the areas of CAD technology.</p>	<p>1, 2, 3, 5, 6</p>	<p>1</p>	<p>4</p>

Section II Part B
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Program Information by TOP Code

College/District: RSCCD - Agreement #: XX-C01-042
 TOP CODE(s): 0953.00 Retain in District Audit Files
 Section 135(b) Requirements Program Title: _____

Column A	Column B	Column C	Column D	Column E
3. Provide students with strong experience in and understanding of all aspects of an industry, which may include work-based learning experiences.	1. Students learn modern CAD software, which is complex, managing the entire lifecycle of a product from conception to service & disposal. Modern CAD software increasingly integrates multiples areas of the engineering design process, including manufacturing, construction, supply chain management, & rapid prototyping. Thus, education in CAD links students with many facets of the engineering process.	1, 2, 3, 4	1	4

Section II Part B
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Program Information by TOP Code

College/District: **RSCCD –**

Agreement #: **XX-C01-042**

0953.00 *Retain in District Audit Files*

TOP CODE(s): _____
 Section 135(b) Requirements _____
 Program Title: _____

Column A	Column B	Column C	Column D	Column E
Section 135(b) Requirements	Activities	Core Indicators	Source of funds	Status
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.	COMPLETED 1. Program uses technology in CTE, teaching students the latest, industry-utilized CAD software to prepare students for employment in technology fields (jobs include drafters, designers, & engineering technicians). The program modernizes technology in the classrooms, so that students are prepared for technology use in the job market.	1, 2, 3, 4, 5, 6	1	4
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.	COMPLETED 1. Program provides training & development opportunities for instructors in the areas of new CAD software, use of technology in the classroom, & the use of data to improve instruction.	1, 2, 4	1	4
6. Develop and implement evaluations of the CTE programs carried out with Perkins funds, including an assessment of how the needs of special populations are being met.	Program presently works with RSCCD Research Department to compile student population statistics.	2, 3, 4, 5, 6	3	4

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Section 135(b) Requirements

Column A	Column B	Column C	Column D	Column E
Section 135(b) Requirements	Activities	Core Indicators	Source of funds	Status
7. Initiate, improve, expand and modernize quality CTE programs, including relevant technology.	<p>1. Modernize classroom facilities with the latest computer technology. This will allow the department to use the latest industry-demanded CAD software that will prepare students for employment in CAD technology fields (engineering design, drafting, & engineering technician positions).</p> <p>2. Create, enhance, & streamline course sequences that teach student proficiency in CAD & engineering design. This sequence is designed to directly facilitate vocational job placement.</p>	1, 2, 3, 4, 5, 6	1	4
8. Provide services and activities that are of sufficient size, scope and quality to be effective.	<p>The program provides enough seats for about 50 students. This is an appropriate capacity for effectiveness in the engineering department.</p>	1, 2, 6	1	4
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.	<p>The department provides course offerings at a variety of times, (including day, night, & weekend) and with a variety of deliverities (in-person, online, hybrid) to accommodate different populations, including special populations. This variety provides the required flexibility for many in special populations (e.g., mothers) to take our technical courses. The training will help them to secure high-wage & high-demand occupations in drafting technology. The program will allow for enhanced promotion of the technology programs so that more diverse populations may be reached.</p>	5,6	1	4

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Agreement #: XX-C01-042

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Program Title: _____

TOP CODE(s): _____

Section 135(b) Requirements

Column A	Column B	Column C	Column D	Column E
Section 135(c) Permissive Uses	Activities	Core Indicators	Source of funds	Status
10. Funds may be used to: (1) Involve parents, businesses, and labor organizations, in the design, implementation and evaluation of CTE programs. (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.	Work with local industry to help design & evaluate the CTE program (includes Advisory Meeting activities)	1, 2, 3, 4, 5, 6	1	3
(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.	Form partnerships in local industry for internships, faculty arrangements for industry professionals, & industry experience for instructors.	1, 2	1	1
(4) Provide programs for special populations.				
(5) Assisting career and technical student organizations.	1. Give access to software, equipment, & other technology to the SAC Engineering Club for their activities.	1,2,3,5,6	3	3
(6) For mentoring and support services;				
(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.				
(8) Teacher preparation programs that address the integration of academic				

**Section II Part B
Perkins Career and Technical Education Act (Title IC) – Local Application (& Final Report)
Program Information by TOP Code**

College/District: RSCCD – Agreement #: XX-C01-042
 TOP CODE(s): _____ Program Title: _____
 Section 135(b) Requirements 0953.00Retain in District Audit Files

Column A	Column B	Column C	Column D	Column E
	Activities	Core Indicators	Source of funds	Status
<p>Section 135(c) Permissive Uses and CTE and that assist individuals who are interested in becoming CTE faculty, including individuals with experience in business and industry.</p>				
<p>(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.</p>				
<p>(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.</p>				
<p>(11) Providing activities to support entrepreneurship education and training.</p>				
<p>(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.</p>				
<p>(13) Developing and supporting small, personalized career-themed learning communities.</p>				
<p>(14) Providing support for family and</p>				

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Section 135(b) Requirements _____

Program Title: _____

Column A	Column B	Column C	Column D	Column E
Section 135(c) Permissive Uses	Activities	Core Indicators	Source of funds	Status
(15) Providing CTE programs for adults and school dropouts to complete secondary education or dropouts to complete secondary education or upgrade technical skills.				
(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.				
(17) Supporting training and activities (such as mentoring and outreach) in nontraditional fields.				
(18) Providing support for training programs in automotive technologies.				
(19) Pooling a portion of such funds with a portion of funds available to other recipients for innovative initiatives.				
(20) Supporting other CTE activities consistent with the purposes of the Act.				

