Career and Technical Education (CTE) Tool for Evaluating Programs of Study

The purpose of this document is to measure the effectiveness of Carl D. Perkins Programs of Study. The objective is to gauge Program of Study components needing assistance and/ or technical support in order to strengthen CTE Programs of Study.





Career and Technical Education (CTE) Program of Study Evaluation Tool

Acknowledgements

The Public Education Department (PED) College and Career Readiness Bureau (CCRB), appreciates the contributions of the Program of Study Evaluation Tool Taskforce members and colleagues who provided input into the finalization of this document.

Taskforce Members

Corine Flores Trujillo-Belen Consolidated Schools
Harry Tackett- Roswell Independent Schools
Dr. Ivan Lopez-Northern New Mexico Community College
Dana Irby – Deming Public Schools
John Walker – NMSU Dona Anna Community College
Vicki Evans – Truth or Consequences Schools
Aida Gentzler – Gadsden Independent Schools
Tiffany Schultz – Pecos Valley REC #8
Cari Aguilera – Las Cruces Public Schools
Dr. Luis Moya – University of New Mexico - Taos
Carla Chavez – Taos Municipal Schools
Mindy Watson – Clovis Community College
Gary Schuster – Gallup-McKinley Schools
Ann Jarvis – University of New Mexico - Gallup

Evaluating the Quality of Career and Technical Education (CTE) Programs

	Program of Study Quality Indicators	Leve Impleme 1 2 (-)Low	entation	Challenges to Implementation	Actions to Overcome Challenges	Artifacts, Evidence, and Comments
1.	Course Sequences- Program of Study includes a sequence of academic and at least three CTE courses to prepare for both further study and careers in the broad career field.	,	U ()			
2.	CTE Syllabus – Each course in the sequence of CTE courses has a syllabus that meets guidelines that includes coursework relevant to the career field, industry standards, and formative and summative assessments. Course syllabi elements include:					
 4. 	Worked-Based Learning – A structured program linked to the CTE program of study and approved by the institution (work-based experiences, apprenticeships, cooperative learning, internships, job shadowing, and/or community service). Student Organizations – Provide students opportunities for leadership development,					
	competitive events, professional development, and community service.					
5.	Embedded Literacy – Each course in the CTE program integrates reading and writing strategies into all aspects of learning in the CTE classroom. Assignments frequently require students to read, write, and make presentations related to the CTE field of study.					

	Program of Study Quality Indicators	Implem	el of entation 3 4 High (+)	Challenges to Implementation	Actions to Overcome Challenges	Artifacts, Evidence, and Comments
6.	Embedded Numeracy – Mathematics and numeracy strategies are incorporated into CTE assignments and all aspects of learning in the CTE classroom, with frequent assignments that require students to apply mathematics skills to authentic problems found in the CTE field of study.	·	0 (,			
7.	Use of Technology – Technology used in instructional programs which includes computers, software, hardware and technology specific to the broad career area.					
8.	Professional Development – CTE instructors must hold relevant credentials and be prepared to develop curriculum and deliver curriculum & instruction reflecting the needs of the modern workplace and leading to academics and CTE success for all students. Professional development helps instructors gain new skills and knowledge in: Academic and technical content Classroom management Pedagogy/Andragogy Classroom assessment Project-based learning Academics are embedded into CTE content Problem-based learning Case studies Simulation Learning					
9.	Professional Organizations – A professional organization may be any group formed on the basis of the professional interest of its members (e.g., career and technical professional organizations, industry groups, occupational, or industry recognized organizations).					
10.	Guidance and Advisement – Guidance and advisement systems provide CTE students with opportunities to explore career and educational options, including preparing a plan of study such as the Next Step Plan, advisement, case-management, and/or providing extrahelp and follow-up sessions.					

	Program of Study Quality Indicators	Implem	el of entation 3 4 High (+)	Challenges to Implementation	Actions to Overcome Challenges	Artifacts, Evidence, and Comments
11.	Parental Involvement – (Secondary only) Parental involvement includes parents being a part of the decision-making process in helping students choose a CTE program of study and supporting students in ways that help them succeed in the program.	V	<i>5</i> ()			
12.	Articulation and/or Dual Enrollment Agreements between Secondary and Postsecondary Institutions— Course work alignment between secondary and postsecondary education reduces redundancy. Dual enrollment adds depth to the CTE program. Articulation between 2 year and 4 year institutions should also be established. This agreement establishes policies and procedures for academic and technical content alignment, student eligibility for dual credit courses, criteria for awarding postsecondary credit for dual credit courses, criteria for dual credit instructors, etc.					
13.	Advisory Committees/Partnerships – An advisory committee represents stakeholders in the CTE program and provides input for the program's continuous improvement. Advisory committees meet at least twice a year and minutes are available for review. Advisory committees should be gender balanced.					
14.	Marketing, Public Relations and Community Outreach- School / institution and CTE leaders market the program to students and community stakeholders to ensure everyone involved is familiar with the program & its curriculum and understand how it links to further study and workforce needs.					
15.	Enrollment – Enrollment in program is based on the students' interests, advisors' guidance, and labor market needs.					

	Program of Study Quality Indicators	Leve Impleme 1 2 (-)Low	entation	Challenges to Implementation	Actions to Overcome Challenges	Artifacts, Evidence, and Comments
16.	Retention and Completion - Retention measures the staying power of a program in attracting and keeping students. Completion indicates the percentage of students successfully completing all requirements prescribed for the program. Post Program Positive Placement – Program completers who take a job in the program area or	()-0-1				
10	who continue postsecondary training in the program area and have a positive placement.					
18.	State Assessments – (Secondary only) Students in the CTE program meet benchmarks denoting mastery of standards in English/Language Arts and Mathematics.					
19.	Industry Credentialing and Technical Assessments – The CTE programs lead to industry certification that has value in the workplace. A certification exam can serve as an end-of-program and /or end-of-course exam and provides students the opportunity to earn an industry credential.					
20.	Equipment and Supplies – Equipment and supplies support the instructional plan at a level to assure quality education. Equipment is representative of the grade and type used by business and industry to meet or exceed all appropriate safety standards. Equipment is inventoried and records are updated regularly. Procedures are established for replacement and/or repair of malfunctioning equipment and tools.					
21.	Program Administration – Administration is responsible for the cohesive and seamless implementation of CTE programs.					

	Program of Study Quality Indicators	Level of Implementation 1 2 3 4 (-)Low High (+)	Challenges to Implementation	Actions to Overcome Challenges	Artifacts, Evidence, and Comments
22.	Financial Responsibility – The institution's business office / fiscal office / program managers ensure proper revenue and expenditure processes and guidelines are followed.	• • • • • • • • • • • • • • • • • • • •			
23.	Continuous Program Improvement - Involves a commitment to improving performance using a team approach to decision-making and a systematic collection and analysis of performance data.				
24.	Instructional Delivery –Instructors use a variety of instructional tools and methods to maximize student acquisition of knowledge and skills and development in personal and professional abilities.				
25.	Program Awareness & Accessibility – All students including special populations are made aware of and have full access to CTE programs. Special populations are defined as: Individuals with disabilities Economically disadvantaged individuals including foster children Individuals preparing for nontraditional training and employment Single parents, including pregnant women Displaced homemakers Individuals with limited English proficiency				
	Program of Study Quality Indicators	Level of Implementation 1 2 3 4	Challenges to Implementation	Actions to Overcome Challenges	Artifacts, Evidence, and Comments

		(-)Low	High (+)		
26.	Size, Scope, and Quality				
	Size means the quantifiable evidence, physical				
	parameters, and limitations of each program- such as				
	courses within the approved sequence, amount of				
	available resources, number of staff involved, and the				
	average number of students served each year- that				
	relate to the ability of the program to address all				
	student learning outcomes.				
	Scope means the curricular parameters and				
	limitations of each program- such as the ability of a				
	curriculum to cover the full breadth of its subject and				
	maintain continuous relevance to the modern				
	workplace. Qualifiers include course content, range				
	of offerings within each sequence, ability to fully				
	simulate the appropriate workplace environment,				
	number of work skills and competencies taught, etc.				
	Quality is the measure of how successfully each				
	program is able to teach all enrolled students all				
	workplace standards, competencies, and skills				
	necessary for them to practice careers within their				
	chosen field after graduation, while at the same time				
	supporting a high level of student performance in				
	core academic areas and skills. Mechanisms are in				
	place to ensure high quality programs align with				
	current workplace standards, practices and				
	competencies.				

I	Program of Study Quality Indicators	Level 1 Little or No Development and Implementation	Level 2 Limited Development or Partial Implementation	Level 3 Operational Level of Development and Implementation	Level 4 Exemplary Level of Development and Implementation
1.	Course Sequence Program of Study includes a sequence of academic and at least three CTE courses to prepare for both further study and careers in the broad career field.	The program of study courses are not aligned with standards required for graduation.	The program of study courses are aligned to standards for reading required for graduation.	The program of study courses are aligned to standards for reading and mathematics required for high school graduation.	The program of study courses are fully aligned with standards for reading, mathematics, and science required for high school graduation.
	The sequence of CTE courses is aligned with academic standards required for graduation, technical standards essential to the career field, and successful transitions to additional education.	The program of study courses are not aligned with NM Career & Technical Education Standards.	At least 50% of the program of study courses are aligned NM Career &Technical Education Standards for reading and mathematics.	At least 75% of the program of study courses are aligned NM Career & Technical Education Standards for reading and mathematics.	The program of study courses are fully aligned with current NM Career & Technical Education Standards and students complete at least three sequenced CTE courses.
		The programs of study courses do not include a sequence of at least three courses to meet CTE completer requirements.	The program of study includes a sequence of three or more courses.	The program of study requires CTE students to take advanced academic or CT courses that supplement their career focus.	The program of study course sequence creates a career pathway to prepare students for work-based experiences and employment.
			There is no evidence that the program of study courses addresses the soft skills that employers desire of employees.	Evidence demonstrates industry involvement in the planning / design of course sequences.	CTE courses are articulated to build depth of knowledge and skills without redundancy and they integrate opportunities for students to gain firsthand experience in the career field.
					Reporting of course sequences align with data collection systems.
2	CTT Cullabus	Course villabi da nat	At least 500/ of the	All CTF courses have a	All CTF aggrees made all
2.	CTE Syllabus Each course in the sequence of CTE courses has a syllabus that meets guidelines and includes	Course syllabi do not exist for all CTE courses.	At least 50% of the CTE courses have a syllabus meeting the guidelines.	All CTE courses have a course syllabus that meets the guidelines.	All CTE courses meet all requirements of Level 3, and each syllabus is aligned to the

	coursework relevant to the career field, industry standards, as well as formative and summative assessments. Course syllabi elements include: Course description Learning objectives Instructional philosophy Course goals Major course projects Project outlines Instructional delivery plan Course exams	Existing course syllabi do not meet course syllabi guidelines.	All syllabi are designed to the level of learning needed to meet standards for graduation.	All syllabi are designed to the level of learning needed to meet NM Career and Technical Education Standards.	NM Career & Technical Education standards. The syllabus includes details on assessment and grading; rework policies (redoing substandard work); and standards-based assignments and project outlines using real-world problems.
3.	Work-Based Learning A structured program linked to the CTE program of study and approved by the institution (work-based experiences, apprenticeships, cooperative learning, internships, job shadowing, and community service).	No work-based learning opportunity is established.	Work-based learning opportunities are limited to fieldtrips and job shadowing.	Work-based learning opportunities may include field trips, job shadowing, internships, cooperative work experiences, community service and / or service learning.	Work-based learning opportunities may include field trips, job shadowing, internships, cooperative work experiences, mentorships, and apprenticeships, community service and / or service learning.
		The CTE program does not actively solicit local businesses in the career area to provide workbased learning opportunities.	There is no evidence of a link between course assignments and work-based learning experiences.	There is a documented training plan for internships. The institution's program of study coordinator actively solicits local businesses to provide work-based learning opportunities for CTE students to gain firsthand experience in the career area. Some follow-up on work-based experience is done with employers and	There is a documented training plan, and work-based opportunities that are linked directly to school studies. There is ongoing communication between the institution and the business providing the work-based learning to ensure quality experiences for students and employers. Students are expected to complete course assignments related to the work-site

4.	Student Organizations Provide students opportunities for leadership development, competitive events, professional development, and community service.	There is no participation in student organizations and no plan for participation.	Student organizations are organized in name only. Students have few opportunities to enhance their occupational, employability and leadership skills or participate in service learning through student organizations Plans are being made to increase participation.	Student organizations are an integral part of the instructional program and provide opportunities for service learning and occupational employability and leadership development. Students participate in at least one local competitive event specific to the program.	work activities, weekly summaries, portfolios, etc.) CTE leadership takes action to resolve issues identified during follow-up. Student organizations meet all requirements of Level 3 and are highly visible and successful, as evidenced by the number of students receiving awards and recognition in local, regional, state, regional and national competitive events, as well as participation in community service activities. Program participants take part in regional, state, and national competitive events.
5.	Embedded Literacy Each course in the CTE program integrates reading and writing strategies into all aspects of learning in the CTE classroom. Assignments frequently require	No evidence exists in course syllabi of assignments that require reading and writing about technical content	Evidence exists that the course uses at least one anchor assignment embedded with reading and writing.	At least two or three examples of anchor assignments embedded with reading and writing are found in each CTE course.	A major anchor assignment is found in every course.

	students to read, write, and make presentations related to the CTE field of study.	relevant to the career field. There is no evidence of literacy strategies being used in the CTE courses.	Technical reading and writing are evident.	Academic and CTE teachers collaborate to embed academics.	Instructors embed reading readiness strategies by having students summarize, paraphrase, categorize, infer, predict, use vocabulary, research and write about the technical field.
				CTE instructors use instructional strategies that improve students' literacy skills. Strategies include reading for content and citing evidence in written assignments.	Course assignments are administered by CTE instructors to validate students' mastery of reading standards/or industry aligned curriculum in context of career field.
6.	Embedded Numeracy Mathematics and numeracy strategies are incorporated into all aspects of learning in the CTE classroom, with frequent assignments that require students to apply mathematics skills to authentic problems found in the CTE field of study.	No evidence exists in the course syllabi of assignments that require mathematics to solve problems relevant to the career field. There is no evidence of numeracy strategies being used in the CTE classroom.	The course has at least one example of an anchor assignment that requires mathematical skills. Instructors use mathematics vocabulary for mathematics related to CTE courses.	At least two to three examples of anchor assignments embedded with mathematics are found in each CTE course. Academic and CTE instructors collaborate to embed mathematics into CTE courses.	A major anchor assignment is found in every course. CTE instructors use strategies that improve students' numeracy skills. Strategies include the development of arguments and the collection and organization of data. Classroom assessments are administered by CTE instructors to validate students' mastery of mathematics standards in the context of career fields.
7.	Use of Technology Technology used in instructional programs includes computers, software, hardware, and technology specific to the broad career area.	Information technology and career-related software are not available to students or not used.	Information technology and career-related software are used in a limited way.	The instructional program uses information technology and career-related software, but not up to date based on industry standards.	The instructional program uses information technology and career-related software in every class when appropriate.

8.	Professional Development	Technology is not available to students or not used.	Career-related software and hardware are outdated. Evidence exists of instructors using technology for instruction, but there is little or no evidence of students using it.	Not all students are required to use technology and hardware to master career skills. Observational data show evidence of students using career-related software, presentation software, hardware, and program appropriate technology.	Career-related software and hardware are high-tech and current based on industry standards. All students are required to use technology to master career skills. Students' information and technological skills are assessed both in terms of their ability to use software and hardware to make judgments about information, organize it, synthesize it, and paraphrase it in the context of the occupation field.
	CTE instructors must be prepared to develop and deliver curriculum and instruction reflecting the needs of the modern workplace and leading to academic and CTE success for all students.	evidence of professional development to strengthen CTE instructors' content knowledge and skills.	development is planned with little, if any, input from CTE leaders and instructors.	use data to identify gaps and target professional development to eliminate gaps.	focused on both institution and CTE program needs, and evidence suggests a positive impact on student learning.

	Professional development helps teachers gain new skills and knowledge in multi-modality presentation and learning: Academic and technical content Classroom management Pedagogy/Andragogy Classroom assessment Project-based learning Academics are embedded into CT content Problem-based learning Case studies Simulation learning	Professional development provided has no connection to key practices proven to engage students and improve academic achievement.	CTE instructors in this program have received professional development on best practices to engage students: • Adapt teaching to different learning styles • Teach through cooperative learning strategies • Use student – centered instruction to motivate and deepen student learning • Help students make connections between course and the real	CTE instructors have received professional development on best practices listed in Level 2 and on further practices: • Embedded literacy skills into technical content • Embed high-level mathematics into technical content • Use project-based learning to deepen understanding • Align course assessments to challenging academic and technical standards	CTE instructors receive continuing professional development with coaching to become proficient in best practices identified in Levels 2 and 3. There is evidence that CTE instructors participate in a larger professional learning community. All CTE instructors in the program complete and induction program for new instructors and continue with targeted training at least every two years to update their content knowledge and skills.
		Professional development provided has no connection to the identified needs of the program.	CTE instructors in this program have had little, if any, opportunity to update their content knowledge and skills.	There is evidence that CTE instructors work with academic instructors to embed literacy and numeracy into the technical content.	There is evidence that nearly all of the best practices in Levels 2 and 3 are incorporated into unit planning and daily lessons.
		There is no evidence that CTE instructors in this program collaborate with academic teachers in the school or district.	There is limited evidence that CTE instructors participate in CTE related trainings and workshops.	CT instructors are provided opportunities to update their technical knowledge and skills through workshops, formal classes, externships, etc.	There is evidence that CTE instructors are using best practices to engage students.
9.	Professional Organizations	CTE instructors, administrators and	CTE instructors, administrators, and	CTE instructors, administrators and	CTE instructors, administrators, and support

	benefits of professional development opportunities made through these organizations. However, there is no evidence of participation in these organizations.	occupational or other organizations and their conferences.	CTE instructors, administrators and staff actively pursue opportunities for continued learning, credential advancement, and expanding contact with industry leaders.	CTE programs benefit from staff administration participation in professional organizations (e.g., sharing information with staff, incorporating new techniques in the classroom, etc.)
Guidance and Advisement Guidance and advisement systems provide CTE students with opportunities to explore career and educational options, including the preparation of a plan of study such as the Next Step Plan, advisement, case-management, and/or attending extra help sessions as well as follow up sessions.	Students do not prepare a plan of study (Next Step Plan).	Students prepare a multi-year plan of study with assistance from advisors but with no professional input.	Students set career goals and prepare a multi-year plan of study linked to further education options to achieve those goals.	Students are assigned to an advisor who works with them throughout their enrollment to help them stay on track. Plans of Study are complete and consistently reviewed and updated.
	There is no evidence of students having opportunities to explore career and educational options.	The plan of study is focused only on the program implementation years and does not link to further education options.	Students are made aware of dual credit opportunities.	Students are encouraged to enroll in dual credit courses relevant to the CTE program.
	Students do not complete a career-interest inventory or inventories are incomplete with no follow through.	Students are not made aware of dual credit opportunities to expand their CTE studies. Students partially complete a career	Students are aware of the requirements for various career options and the effort needed to meet those requirements. Students use program advisement at least	Secondary schools provide information and assistance to parents on topics such as college entrance requirements and financial aid. Secondary schools collaborate with feeder middle grade

				progress made toward completing the plan and, if needed, adjust the plan to reflect changes in career goals.	parents aware of career and educational outcomes. Career exploration experience / and exposure for students is provided through different activities such as field trips, guest speakers, etc. At-risk students are identified and provided intervention and support to meet course standards.
11.	Parental Involvement (Secondary Only) Parental involvement includes being a part of the decision-making process in helping students choose a CTE program of study and supporting students in ways that help them succeed in the program.	Parents have little or no involvement in the CTE program and were not involved in their student choosing the program.	Parents are involved in a limited way through student/parent/instructor meetings and annual open houses in the CTE classroom each year to look at student work.	Parents meet with the student, a CTE instructor and a guidance counselor / advisor prior to student enrollment in the program to understand the program's expectations.	Parents have the opportunity to participate in the CTE program. They participate in planning their student's complete program of study and approve the sequences of academic and CTE courses that prepare the student for transition to postsecondary education. They endorse their student's program of study and goals and monitor progress made toward completing the program and reaching goals.
				Parents and their students meet at least annually with the CTE instructor and guidance counselor/advisor to map out a plan, review progress made, and revise the plan as needed.	Parents communicate frequently with the school, actively support learning at home, volunteer and collaborate with community groups in support of the program.
12.	Articulation and/or Dual Credit Enrollment Agreements between Secondary and Postsecondary (2 year & 4 year) Institutions	No articulation agreement exists for the CTE program.	The CTE program is supported by an articulation / agency agreement with a	The CTE program is supported by articulation / agency agreements with	The CTE program is supported by articulation / agency agreements with multiple postsecondary institutions

Articulation matches course work between secondary and post-secondary education to reduce redundancy. Dual enrollment adds depth to the CTE program. Articulation between 2 year institutions to 4 year institutions should also be established.		nearby technical or two year college.	postsecondary institutions within the region.	statewide. Agreements are viewed as essential in creating maximum educational opportunities.
The agreement establishes policies and procedures for academic and technical content alignment, student eligibility for dual credit courses, criteria for awarding postsecondary credit for dual credit courses, criteria for dual credit instructors, etc.	No dual enrollment policy is in effect for the CTE program.	Eligibility criteria for enrollment in dual credit CTE courses address the required technical skills but not college placement standards for reading, writing, and mathematics.	Eligibility criteria for enrollment in dual credit CTE courses address the required technical skills and college placement standards in reading, writing and mathematics required for this CTE program, but they may differ from the collegeplacement standards for academic dual credit courses.	Eligibility criteria for enrollment in dual credit CTE courses address the required technical skills and set the same college placement standards in reading, writing, and mathematics for CTE and academic dual credit courses.
		There is no evidence that articulation/dual enrollment agreements establish the same requirements for faculty, course syllabi and end-of-course exams, whether taught to high school or college students.	Articulation / dual enrollment agreements have established the same requirement for faculty teaching dual credit courses, whether to high school or college students. There is no evidence of common course syllabi and end-of-course exams for dual credit courses, whether taught at the high school or college.	Articulation / dual enrollment agreements have established the same requirements for faculty, course syllabi, and end-of-course exams whether taught to high school or college students.
		There is no evidence that articulation / dual enrollment agreements are reviewed annually.	Articulation / dual enrollment agreements are reviewed annually.	Articulation / dual enrollment agreements are reviewed annually. Criteria are established for awarding postsecondary credit and credit earned is immediately added to the high

					school and postsecondary
13.	Advisory Committee / Partnerships An advisory committee represents stakeholders in the CTE program and provides input for the program's continuous improvement. Advisory committees meet at least twice a year and minutes are available for review. Advisory committees should be gender balanced.	No advisory committee is established or the committee exists only on paper.	An advisory committee is established representing a limited number of stakeholders and employers.	An advisory committee meets at least twice a year and represents most stakeholders, including business / industry, secondary and postsecondary leaders, teachers, parents and students.	transcripts. The advisory committee-balanced with a variety of stakeholders and persons who can influence policy decisions – meets at least twice a year to consider actions requiring input from stakeholders and employers.
			The committee hears reports and gives limited input, but does not make recommendations for future actions.	The committee hears progress reports and makes recommendations.	The committee hears progress reports, makes recommendations and receives feedback on actions taken.
			The committee meets at least once a year, but has minimal influence on issues affecting the program of study.	Meetings have an established agenda, attendance is taken and minutes recorded.	The advisory committee drives of the program and works with school and district leadership to ensure program quality by: *Reviewing and providing input on major assignments
					*Providing feedback on course sequences and value-add credentials
					*Work to expand work-based learning opportunities *Engage in lesson/project design based on common tasks / problems from the workplace

					*Provide input on new equipment to support the program
14.	Marketing, Public Relations and Community Outreach Schools/institutions and CTE leaders market the program to students and to community stakeholders to ensure everyone involved is familiar with the	There is little evidence of program marketing or outreach efforts.	Passive, limited marketing activities reflect the value of the program.	The value of the program is reflected in active marketing efforts that reach students and the community.	The program is aggressively marketed to all students, and community stakeholders.
	program & its curriculum and understands how it links to further study and workforce needs.		The program is described in the school's printed literature and/or on its website.	Students in career promotion events and other informational events to showcase program and build interest in it.	The marketing effort reflects the program's value and alignment to workplace standards and labor market needs.
			Counselors /advisors and instructors have limited knowledge of the program or opportunities for students who complete the program.	Instructors and counselors/advisors know about the program, its course requirements, level of academic and technical knowledge needed and career options.	Instructors and counselors/advisors are knowledgeable about the program, its course requirements, the level of academic and technical knowledge needed and career options. They encourage students to consider the program. The program encourages local media to cover program events. Program information is distributed to students early
					in the student's educational experience.
15.	Enrollment Enrollment in a program is a function of students' interests, advisors' guidance, and labor market	Enrollment is less than 50% of the program capacity.	Enrollment is approximately 65% of the program capacity.	Enrollment is more than 75% of program capacity.	Enrollment is 85% or above of program capacity.
	needs.	There is no plan for growing enrollment to program capacity.	There is a plan for growing enrollment to program capacity.	There is a plan for growing enrollment to program capacity and the plan is regularly revisited.	There is a plan for how to reach program capacity, and current enrollment has met or exceeded the plan.

16.	Retention and Completion Retention measures the staying power of a program in attracting and keeping students. Completion indicates percentage of students successfully completing all requirements prescribed for the program.	Retention: Less than 50% of the students entering the CTE program continue past the foundation course. Completion: Less than 50% of the students completing all requirements of the program as defined by	Retention: Approximately 60% of the students entering the CTE program continue past the foundation course. Completion: Approximately 60% of the students completing all requirements of the	Retention: Approximately 70% of the students entering the CTE program continue past the foundation course. Completion: Approximately 70% of the students completing all requirements of the program as defined by PED	Retention: Approximately 80% or more of the students entering the CTE program continue past the foundation course. Completion: Approximately 80% of the students completing all requirements of the program as defined by PED CCRB performance
		PED CCRB performance measures target methodology.	program as defined by PED CCRB performance measures target methodology.	CCRB performance measures target methodology.	measures target methodology.
17.	Post Program Positive Placement Program completers who take a job in the program area or who continue postsecondary training in the program area have a positive placement.	Less than 50% of graduates from the program are working in the career field or related field, operating entrepreneurial businesses, completing a formal apprenticeship in the career field, enrolled in postsecondary education in the career field, or serving in the military one year after graduation.	Approximately 75% of graduates from the program are working in the career field or related field, operating entrepreneurial businesses, completing a formal apprenticeship in the career field, enrolled in postsecondary education in the career field, or serving in the military one year after graduation.	More than 75% of graduates from the program are working in the career field or related field, operating entrepreneurial businesses, completing a formal apprenticeship in the career field, enrolled in postsecondary education in the career field, or serving in the military one year after graduation.	More than 90% of graduates from the program are working in the career field or related field, operating entrepreneurial businesses, completing a formal apprenticeship in the career field, enrolled in further postsecondary education in the career field, or serving in the military one year after graduation.
18.	State Assessments (Secondary only) Students in the CTE program meet benchmarks denoting mastery of standards in English / Language Arts and Mathematics.	Less than 25% of students enrolled in the program meet state standards by the end of the year. Less than 25% of students meet	25-49% of students enrolled in the program meet state standards by the end of the year. 25-49% of students meet placement	50-74% of students enrolled in the program meet state standards by the end of the year. 50-74% of students meet placement standards in	75-100% of students enrolled in the program meet state standards by the end of the year. 75-100% of students meet placement standards in

		placement standards in English / language arts and mathematics for the postsecondary college.	standards in English / language arts and mathematics for the postsecondary college.	English / language arts and mathematics for the postsecondary college.	English / language arts and mathematics for the postsecondary college.
19.	Industry Credentialing and Technical Assessments The CTE program leads to industry certification that has value in the workplace. A certification exam can serve as an end-of-program exam and provides students the opportunity to earn an industry credential.	The program does not pursue available industry credentialing.	The program offers one industry credential and encourages students to take the certification exam.	All students in the program take an industry certification exam.	All students taking the industry certification exam successfully attained.
		Less than 25% of students in the program take a certification exam.	25-49% of students in the program take a certification exam.	50% or more of students in the program take a certification exam.	90% or more of students in the program take a certification exam. School / institution provides and /or coordinates financial assistance for the costs of the certifications.
		Pass rates on certification exams are below 60%	Pass rates on certification exams are 60-74%.	Pass rates on certification exams are 75-89%.	Pass rates on certification exams exceed 90%. Technical assessment is nationally benchmarked and includes a skills based component. Certifications are industry recognized and portable across geographic boundaries.
20.	Equipment and Supplies Equipment and supplies support the instructional plan at a level to assure quality education. Equipment is representative of the grade and type used by business and industry to meet or exceed all appropriate safety standards. Equipment is inventoried and records are updated regularly. Procedures are established for replacement and / or repair of malfunctioning equipment and tools.	Equipment, supplies and related technology are non-existent.	Equipment, supplies and related technology are used in a limited way. Career related equipment is outdated.	Equipment, supplies and related technology are available for students. Equipment, supplies and related technology are adequate, but not state of the art.	Students are required to use career related equipment and technology. Equipment and related technology is state of the art based on industry standards.

			Inventory records, procedures and relevant records are limited. Equipment, supplies and related technology is used by the instructor, but few, if any students use have access.	Inventory records, procedures and relevant records are in place. Instructional strategies are adapted so that students are required to use equipment, supplies, and related technology.	Inventory records, procedures, and replacement plans are updated yearly. Students' skills are assessed on use of equipment and related technology.
21.	Program Administration Administration is responsible for the cohesive and seamless implementation of the CTE programs.	Administration exhibits an understanding of Perkins Law including the Required Uses of Funds.	Administration develops and periodically reviews policies and procedures that ensure compliance with Perkins Law.	Administration exhibits an understanding of federal/state legislation rules and regulations, school law, and finances including the Nine Required Uses of Funds and the Permissible Uses of Funds to assure quality and continual program improvement.	Administration assures CTE program compliance as per federal / state legislation rules and regulations, school law, and finances including the Nine Required Uses of Funds and the Permissible Uses of Funds.
		Administration supports procedures to assure equal access and full participation of special populations in CTE programs.	Administration implements procedures to assure equal access and full participation of special populations in CTE programs.	Administration assists in the development of policies and procedures to assure equal access and full participation of special populations in CTE programs including the smooth transition from secondary to postsecondary institutions.	Administration ensures compliance with policies and procedures to assure equal access and full participation of special populations in CTE programs including the smooth transition from secondary to postsecondary institutions.
		Administration maintains records required for internal and external audits, following record retention rules.	Administration submits required reports in a timely manner (e.g., student data, program data, program approval, staffing, etc.)	Through the use of program related data, administration coordinates annual program evaluations leading to continuous program improvement.	Through the use of CTE program data, continuous program improvement plans are promoted, annually reviewed and updated.

22.	Financial Responsibility The school's / institution's business / fiscal office	Federal EDGAR regulations and OMNI Circular regulations are	Administration monitors partnerships and grant development. Administration verifies that program budget expenditures are	Administration is responsible for the development and implementation of CTE program plans and collaborates with advisory committees and staff in the development and implementation of those plans. Administration supports CTE programs through a budget process that	Administration keeps current with up-to-date changes in the field of CTE and is instrumental in establishing working relationships between secondary, postsecondary and advisory committees to ensure a smooth transition. Administration ensures that staff meets qualifications and oversees the retention, replacement and recruitment of staff. Program budget is clearly appropriate for the curriculum. Long range goals
	ensures proper revenue and expenditure processes and guidelines are followed.	followed for the most part.	aligned with local CTE program plans. Administration includes input from business / fiscal office staff prior to the development of program budgets.	considers curriculum, program needs and number of students. Administration uses a process to determine appropriate purchase and replacement of equipment and instructional materials.	Administration regularly keeps business / fiscal office staff involved in the budget management process.
23.	Continuous Improvement Plan Involves a commitment to improving performance using a team approach to decision-making and a systematic collection and analysis of performance data.	The CTE continuous program improvement process is described in writing and has been partially implemented.	The continuous program improvement process uses selected student and performance data to make program improvement.	The continuous program improvement process is fully implemented and regularly utilizes student and performance data to make program improvement.	An integral part of the continuous program improvement process is the use of all data and written feedback gathered from the advisory committees, teachers, students, and community partners.
		The continuous program improvement process is	Assessment of CTE program design	The continuous program improvement process	The continuous program improvement process is

		used to identify emerging industries and changes in industries for addition and revision of CTE course offerings.	components is used for program improvement.	involves external and internal support to assure CTE programs are relevant to meet the needs of students.	viewed as critical for program sustainability and appropriate funding is targeted to assure completion of the process.
				The continuous program improvement process includes a long-term professional development plan that addresses areas of need and individual professional growth.	The continuous improvement process views a comprehensive professional development process as fundamental to program improvement.
				The continuous program improvement process reflects changes in technology, employment and educational reform.	The continuous program improvement process incorporates effective practices and current research.
24.	Instructional Delivery The use of a variety of instructional tools and methods that instructors use in an effort to maximize student acquisition of knowledge and skills and development of personal and professional abilities.	CTE instructional strategies are somewhat varied based on limited knowledge of student's learning styles.	CTE instructional strategies include contextual instruction.	CTE instructional strategies include competency-based contextual instruction and differentiated instruction.	CTE instruction is routinely modified to maximize student attainment of assessed skills.
		CTE instruction consists of limited access to and use of technology.	CTE instruction incorporates a balance of technology and laboratory experiences.	CTE instructional strategies are adapted to maximize student's experiences.	CTE instructional strategies are based on current research and best practices.
		CTE staff provides and documents safety to students prior to use of equipment and makes certain students operate equipment in a safe manner.	CTE program models and reinforces safe practices on an ongoing basis.	CTE instruction consists of providing all students SAFETY equitable access to technology.	CTE instruction consists of access to SAFETY state-of-the- art technology based on industry trends.

		cTE instructional strategies are minimally adapted to increase success for students.	CTE instruction consists of limited access and use of current technology.	CTE instruction is linked to learning theory and design.	CTE instruction uses innovative methods whose success is indicated by student achievement data. CTE instruction uses a variety of people from the community, businesses, industry, organizations, and government.
25.	Program Awareness & Accessibility All students including special populations are made aware of and have full access to CTE programs. Special populations are defined as: Individuals with disabilities Economically disadvantaged individuals including foster children Individuals preparing for nontraditional training and employment Single parents, including pregnant women Displaced homemakers Individuals with limited English proficiency	The institution has written recommended policies and procedures in place to ensure the learning environment is barrier free. When appropriate, the institution makes basic accommodations that allow participation of all students.	The institution encourages all students to participate in a content area based on the student's interest level. The institution ensures accessibility through reasonable modifications or accommodations to equipment, laboratory stations, and facilities.	The institution and educational environment honors diversity and respects all students. CTE program promotional curricula and instructional materials are delivered in a non-discriminatory manner.	The institution adapts, modifies and supports accessibility by all students. The institution presents a broad range of career options to all students regardless of race, national origin, religion, age, disability or gender.
			There is some evidence that CTE program offerings are	Awareness of CTE program offerings occurs through	Awareness of CTE program offerings occurs through opportunities for students to

			promoted to all	presentations by enrolled	observe or participate in CTE
			students through the	students and staff.	programs prior to course
			registration process.	students and starr.	registration.
26.	Size, Scope, and Sequence	Evidence of size, scope	Evidence of size,	Evidence of size, scope and	Evidence of size, scope and
20.	Size, Scope, and Sequence	and sequence is minimal	scope and sequence	sequence is at operational	sequence demonstrates
	Size means the quantifiable evidence, physical	to non-existent.	exists in a limited	level.	students simulate appropriate
	parameters, and limitations of each program- such as	to non-existent.	manner.	level.	workplace skills, competencies
	courses within the approved sequence, amount of		manner.		and practices.
	available resources, number of staff involved, and the				and practices.
	average number of students served each year- that	CTE classrooms do not	CTE classrooms	Fuidance represents	Program demonstrates robust
	•			Evidence represents simulation to	curricula and instructional
	relate to the ability of the program to address all	reflect industry standard	represent some level		
	student learning outcomes.	setting.	of industry standard criteria.	industry/workplace	practices leading to high level
			criteria.	environment.	student performance.
	<u>Scope</u> means the curricular parameter and limitations		Coming to a	There is a distance of	There is a side as a there all leave
	of each program- such as the ability of a program		Curricula and	There is evidence of	There is evidence that all key
	curriculum to cover the full breadth of its subject and		accessibility to	alignment to	practices are incorporated
	maintain continuous relevance to the modern		equipment is limited	industry/workplace	into CTE programs.
	workplace. Qualifiers include course content, range		and not state of the	standards and practices.	
	of offerings within each sequence, ability to fully		art.		
	simulate the appropriate workplace environment,				
	number of work skills and competencies taught, etc.				
	Quality is the measure of how successfully each				
	•				
	program is able to teach all enrolled students				
	workplace standards, competencies, and skills				
	necessary for them to practice careers within their				
	chosen field after graduation, while at the same time				
	supporting a high level of student performance in				
	core academic areas and skills. Mechanisms are in				
	place to ensure high quality programs align with				
	current workplace standards, practices and				
	competencies.				

- How do you ensure that CTE students have access to a sequential technical course sequence within a program of study aligned to the current industry standards?
- How are you integrating work-based learning experiences into the CTE curriculum? How do you track student progress and skill acquisition throughout the CTE program sequence?
- How have you articulated clear postsecondary pathways to all CTE program stakeholders?
- How have industry and educational partners participated in the review of your program's curriculum, course sequence, technical assessment, facility, equipment, and alignment to workforce needs?
- How have you approached providing access to the program / curricula to ensure that special population student needs are being met?

- How has your self-study team, advisory board, and school community been involved in the development of the mission and vision of the CTE program of study?
- How are special education teachers involved in the planning and development of the CTE curriculum to ensure that all students with disabilities have access to career and technical education curriculum and the technical assessments and/or industry credentials?
- How do you know your decisions are improving instruction and engaging students in challenging academic tasks?
- What factors do you consider when creating staff and student schedules?
- What specific interventions are in place to meet the needs of targeted students and close the achievement gap?
- What roles do your CTE instructors and guidance counselors play in monitoring the progress and of a student's work skills employability profile, assisting students in developing a career plan and providing a work-based learning sequence for all CTE students?
- How have you defined a clear pathway for entry into additional education and careers through your CTE program of study?
- What is your approach to the use of assessments in your school? Can you discuss the rationale behind your approach?
- How are stakeholders (advisory committee members, self-study team members, program administrators, teachers, students and parents) involved in the annual evaluation of the CTE program?
- What do practices connected to academic competencies look like across classrooms?
- How are professional development opportunities provided for CTE teachers to stay current with changes and emerging trends in the industry?
- Are CTE end of program technical skills assessments in place and used where available and appropriate?

- What strategies are in place for recruitment and retention of nontraditional students?
- How are students encouraged to participate in nontraditional occupational experiences?
- What fiscal management procedures do you have in place for ensuring proper expenditure of Perkins funds?