



LEVERAGING CTE  
TO **STRENGTHEN**  
COLORADO COMMUNITIES

# COLORADO PERKINS V STATE PLAN

Strengthening Career and Technical Education for the 21st Century Act

# **I. COVER PAGE**

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## **Glossary of Terms**

\*Indicates term is based on the same term used in federal law.

1. **ACE** – Alternative Cooperative Education
2. **BEL Commission** – Business Experiential Learning Commission
3. **BOCES** – Board of Cooperative Education Services
4. **CACTA** – Colorado Association of Career and Technical Administrators
5. **CACTE** – Colorado Association of Career and Technical Educators
6. **CCCS** – Colorado Community College System
7. **CDE** – Colorado Department of Education
8. **CDHE** – Colorado Department of Higher Education
9. **CDLE** – Colorado Department of Labor and Employment
10. **CLNA** – Comprehensive Local Needs Assessment
11. **Completer** – A student who fully meets the standards outlined in an approved CTE program
12. **Concentrator for Postsecondary\*** – A student who, within the reporting year, has completed a minimum of 12 credits in the approved CTE program or who has completed the entire approved CTE program if it is 12 credits or fewer.
13. **Concentrator for Secondary\*** – A student served by an eligible recipient who has completed at least two courses in an approved single CTE program or program of study (With ‘course’ being defined as equivalent to one full school year of credit in the specific program pathway).
14. **CSI** – Charter School Institute
15. **CTE** – Career and Technical Education
16. **CTE Participant** – An individual at either the secondary or postsecondary level who completes at least one CTE course in an approved CTE program or program of study.
17. **CTSO** – Career Technical Student Organization
18. **CWDC** – Colorado Workforce Development Council
19. **DOC** – Colorado Department of Corrections
20. **ESEA** – CDE Office of Elementary and Secondary Education Act
21. **ESSA** – Every Student Succeeds Act
22. **ICAP** – Individual Career and Academic Plan

23. **LEA** – Local Education Agency
24. **Low-income student** – A student receiving free or reduced cost lunch at the secondary level or a Pell-eligible student at the postsecondary level.
25. **Minority student** – ‘Minority’ comprises all nonwhite subgroups of students in Colorado.
26. **Non-traditional** – the term ‘non-traditional’ refers to a student participating in an occupation or a CTE program in which individuals or one gender comprise less than 25% of the individuals employed in each such occupation or CTE program or field of work. This term closely mirrors the federal definition of ‘non-traditional fields’, but refers to the students participating in or learning about those fields.
27. **Program approval** – This requires completion of an approved program of study that leads to a recognized postsecondary credential, offering a sequence of CTE courses sufficient in size, scope, and quality to comprise a CTE program, offering work-based learning opportunities to students, leadership development such as through a CTE student organization, and the integration of applied academics.
28. **Program of Study\*** - The term program of study means a coordinated, nonduplicative sequence of academic and technical content at the secondary and postsecondary level that incorporates challenging State academic standards, addresses both academic and technical knowledge and skills, including employability skills; is aligned with the needs of industries in the economy of the state, region, Tribal community, or local area; progresses in specificity; has multiple entry and exit points that incorporate credentialing; and culminates in the attainment of a recognized postsecondary credential.
29. **PWR** – Postsecondary and Workforce Readiness skills which work collaboratively with the CDE Essential Skills (skills essential for success in professional life).
30. **Recognized Postsecondary Credential\*** - a credential consisting of an industry-recognized certificate or certification, a certificate of completion of an apprenticeship, a license recognized by the state involved or Federal Government, or an associate or baccalaureate degree. In Colorado, certificates awarded by two-year institutions are also recognized as a recognized postsecondary credential.
31. **SBCCOE** – State Board for Community Colleges and Occupational Education
32. **Size, Scope, and Quality** – To be of sufficient size, scope, and quality, a CTE program in Colorado must include the following components:

***Sufficient Program Length** – Each program completer definitions determine the minimum and maximum length of each program.*

- ***For secondary programs**, the minimum completion requirement will be equivalent to two year-long courses (i.e. two Carnegie Units of instruction), an optimum program length will be three years of Carnegie Units, and a program may be longer. A*

*program completer should be ready for entry-level employment or ready for the next level of advanced training as verified by the Technical Advisory Committee. A program concentrator is a student who, within the reporting year, is served by an eligible recipient and has completed at least two courses in an approved single CTE program or program of study, with a course being defined as equivalent to one full school year of credit in the specific program pathway. One course is the equivalent of one Carnegie Unit. Due to the variety of school schedules used across the state, the contact hours for this minimum will be at least 120 hours. A course may count toward completion of multiple pathways and be appropriate on multiple program approvals.*

- ***For postsecondary programs***, a postsecondary certificate program (with occupational field of study specified) is an organized program of study intended to prepare students to enter skilled and/or paraprofessional occupations or to upgrade or stabilize their employment. This program is not intended for transfer to baccalaureate degree programs but may transfer to Associate Degree Programs.

*An initial certificate in a program area needs to include the skills, knowledge, and competencies required for entry-level employment. Other certificates in the same program need to advance that skill level. In addition, to be of sufficient size and scope, a certificate program must at a minimum, consist of:*

- ***Option #1*** - Two CTE courses\*; or
- ***Option #2*** - One, five credit hour CTE course\*  
\*as determined by CCCNS Course approval process

*Any certificate or degree of substantial length (i.e. 45 credits or more) must have an appropriate general education component. (Source: Higher Learning Commission). Area Technical Colleges are exempt from this requirement. A concentrator is a student who, within the reporting year, has completed a minimum of 12 credits in the approved CTE program or who has completed the entire approved CTE program if it is 12 credits or fewer.*

### ***Sequence of courses***

*Each CTE program approved at the secondary or postsecondary level will be comprised of courses that include integrated academic, technical, and employability (PWR) skills and progress in a sequence toward at least entry level employment or advanced training. Student learning must be assessed throughout a course as well as the program.*

### ***Provide Work-Based Learning Experiences***

*Another critical component of a CTE program is that it provides appropriate work-based learning. Work-based learning provides hands-on or realistic experiences for secondary learners that relate to the students' CTE Program of Study. Work-based learning at the secondary level is defined by the continuum from CWDC TalentFOUND as a continuum*

*of activities that occur, in part or in whole, in the workplace, providing the learner with hands-on, real-world experience.*

*Work-based learning options are required for secondary programs. Career exploration experiences are required for middle school programs and work-based learning is strongly encouraged in postsecondary programs. The WBL continuum shares the following information within the career awareness/exploration portion of the continuum:*

<b>Learning About Work</b>		
<b>Career awareness and exploration</b> helps individuals build awareness of the variety of careers available and provides experiences that help inform career decisions.		
<ul style="list-style-type: none"> <li>• Career Counseling</li> <li>• Career Planning</li> <li>• Career Fairs</li> </ul>	<ul style="list-style-type: none"> <li>• Career Presentations</li> <li>• Industry Speakers</li> <li>• Informational Interviews</li> </ul>	<ul style="list-style-type: none"> <li>• Mentoring</li> <li>• Worksite Tours</li> <li>• Project-based Learning</li> </ul>

*In addition to the Learning About Work activities listed above, the work-based learning continuum identifies the following components related to career preparation and career training:*

<b>Learning Through Work</b>	<b>Learning at Work</b>
<p><b>Career preparation</b> supports career readiness and includes extended direct interaction with professionals from industry and the community.</p> <ul style="list-style-type: none"> <li>• Clinical Experiences</li> <li>• Credit-for-work Experiences</li> <li>• Internships</li> <li>• Pre-apprenticeship</li> <li>• Industry-sponsored Project</li> <li>• Supervised Entrepreneurship Experience</li> </ul>	<p><b>Career training</b> occurs at a work site and prepares individuals for employment.</p> <ul style="list-style-type: none"> <li>• Apprenticeship</li> <li>• On-the-job training</li> <li>• Employee Development</li> </ul>

*Access to quality work-based learning is provided to each interested student, especially special populations.*

***Leadership development***

*CTE programs also include embedded leadership development opportunities for learners, including through participation at the secondary level in CTE Student Organizations (CTSO). At both the secondary and postsecondary levels, this also includes embedded employability skills that help ensure postsecondary and workforce readiness skills.*

***Be Based on a Program of Study***

*Each approved secondary and postsecondary program will be a portion of a complete program of study for students. A program of study serves as one type of career guidance and development tool to help learners understand the on and off ramps for a particular*

*career pathway. Programs of study include information on recommended course sequencing at the secondary and postsecondary levels, postsecondary or advanced credit options, and applicable industry recognized credentials relating to a particular career path.*

### ***Industry Partnership***

*CTE programs should be designed to meet industry need. To help ensure this is the case, an approved program must have active partnerships and engagement with business and industry. One method of demonstrating compliance with this requirement is a functional and active advisory committee for each program comprised of at least 51% business and industry members. Advisory committees should meet a minimum of two times per year to provide feedback and input on the CTE program. Some benefits of active advisory committees are that they provide a mechanism to help ensure CTE programs are teaching current and emerging technical skills using proper equipment and technology, and that CTE staff are aware of trends in industry that should be incorporated into the program.*

### ***Equal Access and Appropriate Facilities***

*While equity, access, and inclusion are expected to be embedded in each component of a CTE program of sufficient size, scope, and quality, it is expected that CTE programs will ensure at a local level that learners are aware of the options and benefits of participating in CTE and that each learner has access to do so. This can only happen if CTE programs occur in spaces that are appropriate to the needs of the program and the number of learners served. This includes ensuring sufficient equipment, instruction, and safety protocols are in place.*

### ***Periodic Evaluation***

*Periodic self-evaluation is strongly encouraged for all CTE programs. Additionally, all Colorado CTE programs will be reviewed for renewal purposes every four years at a minimum. This evaluation will occur through the program approval process and will use data-driven practices as well as a technical assistance and coaching model to ensure quality CTE programs for our learners and industry partners.*

33. **Special Populations\*** – Individuals with disabilities; individuals from economically disadvantaged families, including low-income youth and adults; individuals preparing for non-traditional fields; single parents, including single pregnant women; out of-workforce individuals; English learners; homeless individuals described in section 725 of the McKinney-Vento Homeless Assistance Act (42 U.S.C. 1143a); youth who are in or have aged out of the foster care system; and youth with a parent who is a member of the armed forces (as such term is defined in section 101(a)(4) of title 10 United States Code); and is on active duty (as such term is defined in section 101(d)(1) of such title).



34. **State Board** – Unless otherwise stated, refers to SBCCOE the State Board for Community Colleges and Occupational Education
35. **Supplanting** – To replace or take the place of existing funds. Federal law prohibits recipients of federal funds from replacing state, local or agency funds with federal funds
36. **WIOA** – Workforce Innovation and Opportunity Act
37. **Work-Based Learning (WBL)\*** – Sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that foster in-depth, firsthand engagement with the tasks required of a given field that are aligned to curriculum and instruction. In Colorado, this is reflected through the ‘Leaning Through Work’ and ‘Learning At Work’ portions of the Colorado Work-Based Learning Continuum.
38. **Youth** – A student enrolled in an approved secondary CTE program

## **Introduction**

Colorado is placing increased emphasis on the development and continuous improvement of a seamless system of education that ensures ease in student transition from one educational system to another and from one level of instruction to another. In Colorado, Education and the Economy are two of the key issues for the Governor's Office. The Governor Jared Polis' "administration is committed to making sure higher education and workforce development programs are in reach for every student and is committed to saving students money no matter which pathway they choose" (Colorado.gov). As part of that commitment, the Governor recently announced the Office of the Future of Work in Colorado to help coordinate efforts involving the future of Colorado's workforce and to identify trends on the rapidly changing nature of work. Career and Technical Education, offered at the secondary and postsecondary levels, is an important strategy to helping Colorado accomplish these objectives.

The Colorado State Board for Community Colleges and Occupational Education (SBCCOE) administers all Career and Technical Education (CTE) programs for the State of Colorado. Unless otherwise stated, the phrase "state board" in this plan will refer to the SBCCOE. The Colorado Community College System (CCCS), staff for the SBCCOE, since its creation in 1967, has provided leadership in the overall governance of CTE program quality and teacher effectiveness. The board is statutorily charged (C.R.S. 23-60-301 and 23-60-303) with approval of all Colorado CTE programs and disburses federal and state CTE funding to CTE programs at both the secondary and postsecondary level. This unique oversight of both secondary and postsecondary level programs gives Colorado an integrated view of the CTE programs that school districts, technical colleges and community colleges offer to meet workforce demands.

As a result of this dual role, CCCS has historically been proactive in partnership activities between secondary and postsecondary CTE programs, promoting student success and seamless transitions from secondary to postsecondary educational opportunities. As an example of this dual role, CCCS set program renewal standards that promote concurrent enrollment, articulation agreements or demonstrated service area partnerships between school districts and community colleges/technical colleges. At the postsecondary level, the SBCCOE mandates use of a common course numbering system (CCCNS), requiring system community colleges to have identical course prefixes, titles, descriptions and content. This work allows for easier student transfer from one community college to another. Additionally, professional development has been provided under Perkins IV and will be continued to support secondary and postsecondary partnerships, in particular for the development of Programs of Study.

## **Narrative Descriptions**

### **A. Plan Development and Consultation**

- 1. *Describe how the State plan was developed in consultation with the stakeholders and in accordance with the procedures in section 122(c)(2) of Perkins V. See Text Box 1 for the statutory requirements for State plan consultation under section 122(c)(1) of Perkins V.***

The CCCS coordinated with business and industry, community, nonprofit and governmental leaders across Colorado to form a state level Education Leadership Council. The Education Leadership Council served as critical thought partners as stakeholder groups were identified and processes for gathering required consultation were formulated. CCCS consulted with stakeholders from across the state during the development of this plan in many formats including face-to-face regional meetings, conference interactive sessions, CTSO and CTE teacher state conferences and through a formal survey link on the CTE website. Engaged parties included: representatives from secondary and postsecondary education institutions (including students, faculty, counselors/advisers and administrators), the Executive Director of the Colorado Board of Cooperative Education Services (BOCES), the Business Experiential Learning Commission (BEL), the Colorado Workforce Development Council (CWDC), the Colorado Department of Education (CDE) — in particular, the Office of Adult Basic Education and the Office of Postsecondary and Workforce Readiness and the Division of Student Pathways, Colorado Department of Higher Education (CDHE), the Colorado Charter School Institute, McKinney-Vento liaisons, representatives of special populations, business and industry, economic development organizations, the Colorado Association for Career and Technical Education — in particular, the Board for Alternative Cooperative Education (ACE) for Special Populations and the Colorado Association for Career and Technical Administrators and other interested parties.

CCCS followed the four-phase process shown on the next page — Discovery, Dialogue, Direction and Deployment — for the design and development of Colorado’s CTE Vision, Strategic Plan and State Perkins Plan. CCCS spent several months in the discovery and dialogue phases shown below to ensure that CTE partners and Perkins stakeholders were actively engaged in a meaningful way. During the Direction phase, these same stakeholders were consulted and provided input on the state’s CTE vision and strategic plan to create shared ownership and identify needs and opportunities for the Perkins State Plan.



CCCS conducted formal stakeholder engagement sessions across the state to collect input and feedback on CTE related topics that helped to inform the state plan. The topics included Career Exploration and Career Development; Future of Work; Perceptions of CTE and Skills-based Careers; Transitioning from Secondary to Postsecondary Education and from Education to Careers; and Work-Based Learning. CCCS also conducted focus groups which consisted of faculty, students, counselors, industry advisory groups and professional organizations such as the Colorado Association of Career and Technical Administrators (CACTA) and The Colorado Association of Career and Technical Educators (CACTE). Additional input was gathered during partner meetings and through leadership communication with the CWDC, Business Experiential Learning (BEL) Commission (on which cabinet level executives of Colorado’s state agencies has a seat including, the CDE, CDHE, Colorado Department of Labor and Employment (CDLE), and Colorado Office of Economic Development and International Trade). The CWDC (the CCCS Chancellor is a member of the CWDC and is the chair of the Education and Training Subcommittee, the CTE State Director is also a member of this committee) and BEL Commission provided platforms to reach and engage workforce directors, WIOA Core Programs (WIOA Adult, Dislocated Workers and Youth Programs; Adult Education and Family Literacy Act; Wagner-Peyser Employment Services; Vocational Rehabilitation), labor organizations and sector partnerships.

- 2. ***Consistent with section 122(e)(1) of Perkins V, each eligible agency must develop the portion of the State plan relating to the amount and uses of any funds proposed to be reserved for adult career and technical education, postsecondary career and technical education, and secondary career and technical education after consultation with the State agencies identified in section 122(e)(1)(A)-(C) of the Act. If a State agency, other than the eligible agency, finds a portion of the final State plan objectionable, the eligible agency must provide a copy of such objections and a description of its response in the final plan submitted to the Secretary. (Section 122(e)(2) of Perkins V).***

CCCS seeks to spur innovation in CTE by identifying projects that could be scaled for statewide implementation and to encourage local CTE efforts to align to state priorities. CCCS is the oversight agency for CTE at all levels. Colorado has a unique governance structure where the

State Board for Community Colleges and Occupational Education oversees the programmatic elements of CTE for secondary and postsecondary institutions (including the technical colleges and local district colleges). CCCS consulted with the CDE on the development of the Perkins State Plan and works with CDE as the K-12 Academic Educational Agency, in particular for K-12 CTE data submissions and alignment between career pathways related activities.

If CDE, or any other state agency, finds a portion of the final state Plan objectionable, it may file an objection with CCCS which will respond to all objections. Below is a timeline for objections and responses:

<b>Date</b>	<b>Action</b>
October 1, 2019	Perkins Multi-year State Plan posted to CCCS website
October 18-November 1, 2019	Public hearings of Perkins Multi-year State Plan across Colorado
November 1, 2019	Any objections to the content of the Perkins State Plan filed with CCCS by this date
November 14, 2019	CCCS responses are mailed to objectors and any necessary changes made to the plan after the November State Board for Community Colleges and Occupational Education during which the State Plan will be reviewed.

**3. Describe opportunities for the public to comment in person and in writing on the State plan. (Section 122(d)(14) of Perkins V).**

The Colorado State Board for Community Colleges and Occupational Education conducted public hearings across the State of Colorado as detailed in the chart on the next page. Notifications of the public hearings were provided electronically to local school districts, community colleges and community and labor organizations as well as publication on the CCCS website. During public meetings, Colorado Community College System staff provided an overview of the State Plan, solicited feedback from attendees, answered questions and built on effective statewide CTE partnerships. In addition to public meetings, the State plan was posted on the CCCS website with an email address that is clearly identified and available on each webpage with State plan documents. This email address goes directly to the CCCS Perkins Manager and allows individuals to provide written comments on the State plan; an electronic comment form was also provided.

## Locations of Public Hearings on State Perkins Plan

Meeting Dates	Location
October 28, 2019	Montrose
October 29, 2019	Fort Morgan
October 30, 2019	Denver
November 1, 2019	Virtual (via WebEx)

### **B. Program Administration and Implementation**

#### ***1. State's Vision for Education and Workforce Development.***

- a. Provide a summary of State-supported workforce development activities (including education and training) in the State, including the degree to which the State's career and technical education programs and programs of study are aligned with and address the education and skill needs of the employers in the State identified by the State workforce development board. (Section 122(d)(1) of Perkins V).***

Colorado's workforce development activities are primarily coordinated through the CDLE and CWDC. CCCS partners with the CWDC as the governing body responsible for oversight of the Workforce Innovation and Opportunity Act (WIOA) funds and programs. CCCS CTE funds a portion of the operating costs of the CWDC as dictated by State Statute.

The 2016-2019 Colorado WIOA State Plan has five goals:

- 1) Engage business and industry as a fulcrum to inform and align all elements of the demand-driven system
- 2) Establish a customer-centric and holistic focus to increase coordination, effectiveness and access through shared data, tools and resources
- 3) Engage partner staff at every level for better system alignment
- 4) Create and deliver a unified message for internal and external communication
- 5) Drive meaningful outcomes through innovation, alignment of metrics and accountability

CTE is aligned with these goals and identifies opportunities to leverage programs, partnerships and initiatives to engage stakeholders and follow through on identified goals for the education and workforce systems. CTE partners with CDLE, CWDC (WIOA), BEL Commission and Sector Partnership initiatives to leverage and engage in identified career training and

development activities which were developed based on career pathway opportunities and sector strategy initiatives within the state. Some of the state workforce development activities include:

- Colorado House Bill 15-1274: State legislation directing the CWDC to partner with CCCS to increase coordination for the development of career pathways in emerging sectors.
- Colorado House Bill 15-1275: State legislation directing CCCS, CDE, CDLE CWDC, and other stakeholders to create recommendations for assisting local education entities in developing cooperative agreements to include apprenticeships and internships as part of their programs.
- Colorado House Bills 16-1289 and 18-1266: State legislation incentivizing Colorado school districts to provide learners the opportunity to earn an industry recognized credential.
- Colorado Senate Bill 19-171: State Registered Apprenticeship Directory provides a public facing directory as a resource for businesses, jobseekers, and career counselors to ensure information about Registered Apprenticeship Programs for in-school youth and for postsecondary participants is publicly available.
- WORK Act – The Skilled Worker Outreach, Recruitment and Key Training Act (WORK Act) is a grant program administered by CDLE and a grant review committee focused on recruitment and outreach activities, increasing enrollments and completion of skilled worker training programs and filling existing needs for skilled workers.
- US Department of Labor Apprenticeship State Expansion Grants promote the creation of new Registered Apprenticeship programs and the expansion of participation in new and existing programs for adults and in-school youth.

The Business Experiential Learning (BEL) Commission, which is a Governor appointed commission seeks to develop, evaluate, and implement work-based education and training solutions. CCCS partners with the BEL Commission as they focus on four priorities:

- 1) Scale in-school youth apprenticeship
- 2) Shrink gap between high school graduation and apprenticeship
- 3) Address demographic equity gaps
- 4) Build educational assets for every worker.

In partnership with education and workforce partners, Colorado CTE serves secondary and postsecondary learners in their preparation for meaningful careers, provides the state's employers with better prepared talent which leads to the development of stronger communities. Advisory committees, industry councils and sector partnerships are valuable partners in the CTE system. Partnering with these entities provides the opportunity to more effectively align CTE programs with the needs of business and industry.

- b. *Describe the State's strategic vision and set of goals for preparing an educated and skilled workforce (including special populations) and for meeting the skilled workforce needs of employers, including in existing and emerging in-demand industry sectors and occupations as identified by the State, and how the State's career and technical education programs will help to meet these goals. (Section 122(d)(2) of Perkins V).***

The administration team for Colorado CTE along with stakeholders in the state developed a compelling statewide vision to position CTE as a driver in the state's education, workforce and economic priorities. **VISION STATEMENT:** Colorado Career & Technical Education (CTE) leverages workforce and education systems so that each learner has quality CTE experiences leading to lifelong career success.

In the Every Student Succeeds Act (ESSA) State Plan, CDE identified the following goals to support students:

- 1) Start Strong: Every student starts strong with a solid foundation in preschool through third grade;
- 2) Read by Third Grade: Every student reads at grade level by the end of third grade;
- 3) Meet or Exceed Standards: Every student meets or exceeds standards; and
- 4) Graduate Ready: Every student graduates ready for college and careers.

These goals align with those set forth in CDE's strategic plan. CTE programs help support CDE goals three and four specifically, in order to promote student skill attainment, meeting/exceeding standards, and meeting graduation rates. As with CTE and CDHE, CDE shares a goal of increased credential completion for every learner. The Colorado CTE staff member responsible for School Counseling supports CDE's efforts around PWR (Postsecondary and Workforce Readiness) Symposiums around the state and other professional development programs.

Additionally, the CTE Goals help support the state higher education attainment goal of ensuring 66 percent of Coloradans have a postsecondary credential to meet workforce needs. "Colorado Rises: Advancing Education and Talent Development", (the higher education master plan) outlines four goals designed to achieve this larger goal, including:

- 1) Increase Credential Completion
- 2) Erase Equity Gaps
- 3) Improve Student Success
- 4) Invest in Affordability and Innovation

Colorado CTE developed five goals to guide work and partnerships that support the state's vision for CTE. The identified CTE goals are inclusive and intended to engage all relevant partners, stakeholders and information pertinent to Colorado's education and workforce systems. The CTE goals were designed with education and workforce partners in mind in order to ensure that CTE



students are prepared to meet the needs of business and industry in Colorado. Labor market information and workforce data help to inform program partners and stakeholders about high-skill, high-wage, in-demand industries and occupations. Special populations will be considered through the implementation of each goal and will be provided direct attention and services to assist them in successfully gaining technical and employability skills through CTE.

<b>GOAL 1</b>	<b>Career Advisement &amp; Development</b> – Ensure each Colorado Learner has access to ongoing career advisement and development.
<b>GOAL 2</b>	<b>Instructor Recruitment &amp; Retention</b> – Develop and ensure a viable pipeline of CTE instructors to fill the educator positions at the middle school, secondary, and postsecondary levels.
<b>GOAL 3</b>	<b>Partnerships</b> – Prepare Colorado’s future workforce through transformational partnerships.
<b>GOAL 4</b>	<b>Quality Programs</b> – Elevate the quality of CTE programs to support each learner’s skill development and meet industry needs.
<b>GOAL 5</b>	<b>Work-Based Learning</b> – Ensure access to meaningful work-based learning opportunities for each CTE learner.
<b>FOUNDATIONAL ELEMENTS</b>	<b>EQUITY &amp; ACCESS</b> Create opportunities for each learner to access quality CTE programs and distribution of CTE programs throughout the state.
	<b>INCLUSIVITY</b> Provide each learner with the opportunity to participate in a CTE program and decrease the gaps of CTE participation for target populations, non-traditional occupations, and geographic areas.

**Goal 1: Career Advisement & Development: Ensure each Colorado learner has access to ongoing career advisement and development.**

Each Colorado learner deserves the opportunity to explore career options and receive guidance in planning for their future careers. Career advisement and development is a systemic process that starts with a broad understanding of what work is and what is required to be successful in a career. Their understanding narrows as students move through middle school, secondary and postsecondary education. Career advisement and development requires a systems approach that brings together school counselors, CTE instructors, business partners and community members. A systems approach provides for the alignment of activities and interventions that build throughout a learner’s education experience. Colorado CTE will utilize the Career Development Framework crafted under the leadership of the CWDC and other state level partners to inform this goal.

**Strategies for Career Advisement & Development:**

- Advisers, student services, and CTE instructors align efforts in order to have meaningful career conversations with students.
- Instructors are equipped with the skills to have meaningful career conversations with students about their skillsets and career choices.
- Instructors, staff and counselors have access to current and relevant workforce data to guide learners to careers that provide a quality standard of living and future opportunities.
- Learners are provided opportunities for the development of Postsecondary and Workforce Readiness (PWR) skills.

- State and local entities will continue to build relationships with advisers and the Colorado School Counselor Association (CSCA).

**Goal 2: Instructor Recruitment & Retention – Develop and ensure a viable pipeline of CTE instructors to fill the educator positions at the middle school, secondary and postsecondary levels.**

CTE can help meet the talent development needs of Colorado’s workforce and economic priorities with a viable pipeline of CTE teachers/faculty to fill the instructor positions at the middle school, secondary and postsecondary levels. Targeted professional development programs provide on-going support for instructors from a technical skill perspective. These efforts will continue and will expand to include stress management, financial planning, time management and other areas of personal effectiveness and management.

In the ESSA State Plan, CDE details efforts made from the state level to help LEAs impact instructor recruitment and retention. One such effort is the exploration of opportunities to redesign the process for how education preparation programs are approved. A new model involves shifting from an outcome-based system to having an increased focus on program effectiveness and aligning educator endorsements with the Colorado Academic Standards (CAS). CTE partners with the Office of Education Effectiveness for CTE credentialing and works with Colorado State University, in particular, for CTE Teacher Preparation Programs.

The CWDC identified ‘education’ as a career pathway of focus for 2018-2019 and beyond. During this process, CTE and CCCS staff members participated in a statewide Sector Partnership to identify barriers for education recruitment and retention. CWDC, CDE and CDHE are partnering with [www.teach.org](http://www.teach.org) for the promotion of education pathways and dissemination of career pathway information to prospective educators. CTE and CCCS, while not funding partners, are supportive in disseminating this work and message.

**Strategies for Instructor Recruitment & Retention:**

- CCCS and local areas share responsibility for talent development including resources and opportunities for professional development and technical assistance.
- CCCS collaborates with teacher preparation institutions and alternative licensure programs to ensure teachers are prepared to provide instruction aligned to Colorado CTE program standards, curriculum course standards and CTSO advisement.
- Local areas partner with organizations to provide ongoing personal support for instructors in areas of stress management, financial planning, time management and other areas of personal effectiveness and management.
- Local areas perform exit interviews with retirees and instructors leaving their institution as well as retention interviews with existing instructors.

- Local areas review and develop policies and practices that address CTE teacher/faculty recruitment and retention.

**Goal 3: Partnerships: Prepare Colorado’s future workforce through transformational partnerships.**

Partnerships between CTE and industries, agencies and organizations are critical in order to align with industry needs and the skills required for success in Colorado. Partnerships will focus on tangible and applicable opportunities to leverage resources and minimize duplication of efforts to reach and engage learners and other stakeholders in the system. Partnerships will be both formal (Memorandums of Understanding, Memorandums of Agreement, etc.) and informal (relationships, peer engagement, etc.) to create an effective and productive ecosystem for the growth and success of the CTE system. In order to effectively align systems, partners recognize and acknowledge the value and expertise that each industry, agency and organization possesses and can contribute. Systems alignment will result from partners agreeing on shared priorities and action items that benefit their individual agency as well as the CTE system. CTE engages and partners with several non-state agency entities to promote initiatives that align to the CTE mission and vision, such as the “Homegrown Initiative” through Colorado Succeeds and “Business Ethics” work with the Daniels Fund.

**Strategies for Partnerships:**

- Business and industry partners advise on the development of CTE programs, standards and sequencing.
- Business and industry partners provide input and opportunities for real world application of PWR skills through direct workplace experiences, guest speakers and career exploration opportunities.
- Educators and staff develop local resources and methods to better engage partners.
- Partners align their individual efforts with priorities for the CTE system.
- Partners ensure relevant stakeholders are included and agree on shared priorities and action items.
- Secondary and postsecondary partners seek opportunities to align programs of study.

**Goal 4: Quality Programs: Elevate the quality of CTE programs to support each learner’s skill development and meet industry needs.**

Quality CTE programs are a vital component of the education, workforce and economic system in Colorado and are essential in preparing the workforce needed for Colorado’s growing economy. Components of a quality CTE program include quality instruction that aligns to workforce needs and economic priorities; aligns with secondary/postsecondary program of study; integrates with Career and Technical Student Organizations (CTSOs); provides career

advisement and development; provides equity and access to CTE programs; integrates work-based learning; and reviews and reflects on program data to make informed decisions.

Colorado CTE provides quality education programs that emphasize core academic content, PWR (Essential) skills, technical skills and a seamless transition to postsecondary education or employment. CTE standards are cross-walked to the Colorado Academic Standards and will be realigned in the 2020-2021 academic year as Colorado CTE is undergoing state level course revision to support local educators and student success. Colorado CTE is engaging teacher content teams to design ideal Programs of Study including a sequence of courses to match definitions in this Act. The Computer Science Standards crafted through CDE's leadership will be used for CTE IT Programs.

**Strategies for Quality Programs:**

- CTSOs align programs and activities to PWR (Essential) skills.
- CCCS aligns program approval criteria for state funds and federal Perkins funds.
- CCCS develops a rubric for evaluation of CTE program performance.
- CTE programs include intentional instruction of PWR (Essential) skills.
- CTE programs provide learners with technical training aligned to industry and academic standards.
- CTE programs use data related to in-demand occupations and student outcomes to create and sustain CTE programs of study.
- Educators and staff receive technical assistance to implement quality programs that qualify for approval.
- Secondary and postsecondary institutions use creative approaches to deliver CTE programs and work-based learning (WBL) opportunities in underserved locations.

**Goal 5: Work-Based Learning: Ensure access to meaningful work-based learning opportunities for each CTE learner.**

Work-based Learning is an opportunity to bridge classroom learning with the world of work. WBL experiences and programs can help meet the workforce needs of business and industry while providing opportunities for learners to gain real and relevant experiences within an industry or occupation. Colorado CTE will utilize the Work Based Learning Continuum created through partnership with CWDC, CDE, CDHE and CDLE to set guidance for definitions and terminology for WBL in Colorado and to encourage commonality (Appendix A). The WBL Continuum identifies three categories for WBL activities:

- Learning about Work focuses on career awareness and exploration.
- Learning through Work supports career preparation and career readiness.
- Learning at Work provides career training at a work site.

These three categories represent the full spectrum of WBL opportunities available through Colorado's education and workforce systems. WBL experiences intentionally connect classroom instruction with student exploration of and exposure to workplace skills, duties and tasks. Colorado CTE will coordinate with other WBL partners and programs to identify appropriate and beneficial opportunities for each partner to maximize their roles within the three categories from the WBL continuum.

**Strategies for Work-Based Learning:**

- CCCS and local areas inform instructors and staff about WBL resources such as the WBL toolkit.
- CTE instructors and worksite supervisors provide holistic supports to learners participating in WBL experiences.
- CTE programs intentionally connect classroom instruction and activities with workplace skills, duties and responsibilities.
- CTE programs use workforce data related to wages, in-demand occupations, growing industries, and other information to help identify opportunities for WBL activities.
- Key stakeholders lead WBL initiatives by collaborating with education and workforce partners.
- Local areas and state partners collaborate and provide clearly defined and readily available resources for learners, employer worksites and educational institutions.
- Local areas determine the key stakeholders required to engage business and industry in order to increase the number of WBL experiences.

Because WBL experiences serve as a vital bridge between education and employment, Colorado has selected WBL as its quality program indicator for Perkins V. While it is discussed later in this state plan, Colorado's goal is to increase by 5 percentage points the share of secondary students in CTE programs who have participated in an in-depth WBL experience by graduation by 2024.

- c. *Describe the State's strategy for any joint planning, alignment, coordination, and leveraging of funds between the State's career and technical education programs and programs of study with the State's workforce development system, to achieve the strategic vision and goals described in section 122(d)(2) of Perkins V, including the core programs defined in section 3 of the Workforce Innovation and Opportunity Act (29 U.S.C. 3102) and the elements related to system alignment under section 102(b)(2)(B) of such Act (29 U.S.C. 3112(b)(2)(B)); and for programs carried out under this title with other Federal programs, which may include programs funded under the Elementary and Secondary Education Act of 1965 and the Higher Education Act of 1965. (Section 122(d)(3) of Perkins V).*

The strategic planning process for CTE was a collaborative one with partners and stakeholders from a wide variety of experiences being involved to ensure CTE is well positioned to accomplish its goals. The process included stakeholder engagement sessions conducted throughout the state. Attendees included secondary, postsecondary and adult education; CTE instructors; school administrators; instructional support professionals; school counselors; parents; students; WIOA Core Programs; Workforce Development Boards; business and industry; agencies serving individuals with disabilities; agencies serving out-of-school, homeless or adjudicated youth; agencies representing individuals preparing for nontraditional fields (by gender); agencies supporting single parents; agencies supporting English language learners; and agencies supporting youth in or aged out of the foster care system.

As a WIOA required partner, CTE is actively engaged in workforce development planning, coordination and alignment activities across the state. Under Colorado state statute, required partners including Perkins, must contribute to the cost to operate the CWDC. The CWDC is jointly funded by the Departments of Labor and Employment, Human Services, Education, Local Affairs and the Community Colleges. Interagency agreements are in place to clearly define the financial obligations of CCCS. CCCS is also actively engaged with the CWDC and the BEL Commission with CCCS representatives participating and presenting at board meetings, committee meetings and ad hoc meetings. The CWDC convenes a stakeholder group, the WIOA Implementation Team, at least quarterly to discuss progress, updates and collaborations on WIOA, Perkins and other partner programs. As part of the WIOA Implementation Team, CDE's Office of Adult Education oversees services to learners who have left the education system without graduating from high school. Many two-year colleges and some school districts across Colorado have been selected as providers for adult education programs, providing services which include supports to help learners transition into CTE programs upon attainment of their GED. It is anticipated that Adult Education completers are likely to continue with their postsecondary education in CTE programs available at postsecondary institutions.

ESSA in Colorado is operated through the CDE Office of Elementary and Secondary Education Act (ESEA) Programs whose mission is to "ensure that the ESEA programs in Colorado provide all children significant opportunity to receive a fair, equitable and high-quality education and close educational achievement gaps." CCCS and CDE share common efforts when it comes to engaging with the State's Workforce Board (CWDC) and other partners to prepare learners to successfully transition to postsecondary and/or employment opportunities. Both agencies along with other partners, including industry associations and business collaborations such as Colorado Succeeds and the Colorado Business Roundtable, engage business and industry for WBL opportunities; participate in and expand sector partnership efforts championed by business and industry; assist with the design of career pathways; and support collaboration with business and industry to increase opportunities for industry recognized credentials. The shared interests and overlapping goals between CTE and ESSA ensure responsibility for secondary student success is

shared between the two federally funded programs. Additionally, CCCS, CDHE and CDE share the goal of recognized postsecondary credential attainment for learners.

***Describe how the eligible agency will use State leadership funds made available under section 112(a)(2) of the Act for purposes under section 124 of the Act. (Section 122(d)(7) of Perkins V).***

Colorado CTE utilized the statewide strategic planning process as a state-level needs assessment process. As CCCS implements the resulting strategic plan, CCCS will use state leadership funds for the following activities that align with its CTE strategic plan:

- Develop models for statewide programs of study for CTE content areas
- Approve locally developed programs of study
- Establish statewide articulation agreements which are aligned to approved programs of study
- Staff time to support for state partnerships related to sector partnerships and focused on Work-based Learning activities
- Provide high-quality comprehensive professional development activities focused on opportunities for growth and engagement with staff, educators and stakeholders (Professional development opportunities will include a combination of technical skill development to ensure instructors are preparing students for careers of the future, application of academic skills in context of the program of study and integration of the PWR Skills.)
- Provide technical assistance, professional development and program review support for eligible recipients to eliminate inequities in student access to high-quality programs and effective instructors and personnel
- CCCS may elect to use leadership funds to award incentive grants to eligible recipients for exemplary performance or if they choose to use funds allowable under Local Uses of Funds section of the Act
- Provide support for CCCS staff time and leadership related to the consultation and coordination with business and industry organizations, CWDC, CDE and CDHE on the adoption and integration of approved and recognized secondary and postsecondary credentials
- CCCS will coordinate with local and state adult education partners to support CTE programs for adult and out-of-school youth
- Create, evaluate and support competency-based curricula
- If the need arises, state leadership funds will be used to support the development, implementation and expansion of programs of study or career pathways in areas that are part of a declared state of emergency
- Improve advisement and counseling for CTE programs

- Support for the integration of employability and PWR skills to help learners navigate the education and workforce systems.
- Support for programs and activities administered through Colorado Technology Student Association (TSA) related to STEM fields (including Computer Science) for students who are members of underrepresented groups
- Provide a CCCS staff person for federally CTSOs and to provide training and development for advisers and students across the state
- Coordinate with state-level partners and provide resources for local programs to establish and expand work-based learning opportunities including information and insights for instructors and staff to foster increased awareness of WBL opportunities throughout the education and workforce system
- Integrate and align programs of study and career pathways based on sector partnerships in the state and industry identified needs (The comprehensive needs assessments will help to inform discussions around the programs of study and career pathways.)
- Support for CTE programs and programs of study aligned with high-skill, high-wage or in-demand industries or occupations identified by the CWDC and local workforce development boards. (The comprehensive needs assessment, labor market information and other workforce data will help to inform and identify the areas of focus for the identified programs of study)
- Make all CTE content and forms widely available while using Colorado's CTE program approval system
- Develop valid and reliable assessments and enhance data systems to collect and analyze data related to secondary and postsecondary academic and employment outcomes (Partnerships with other education and workforce programs can be leveraged to identify additional employment data points.)
- Support for accelerated learning programs as approved through the CTE program approval system and CCCS staff
- Support for career academies to implement postsecondary education and workforce-ready curriculum as approved through the CTE program approval system and CCCS staff (PWR skills are a key element for this activity. The identification and strengthening of PWR Skills require systems alignment and coordination between the secondary, postsecondary and workforce programs in the state.)
- State leadership funds will also be used to administer middle school programs. This includes providing an online program approval process for evaluating and approving middle school programs. The distinction will be made that activities for middle school learners can be funded even though middle school programs are not eligible for Perkins funds in the local application

This is a comprehensive and complete list of activities related to CTE in Colorado and are the areas of focus and items to be addressed using State leadership funds.



- 2. *Implementing Career and Technical Education Programs and Programs of Study.***
  - a. *Describe the career and technical education programs or programs of study that will be supported, developed, or improved at the State level, including descriptions of the programs of study to be developed at the State level and made available for adoption by eligible recipients. (Section 122(d)(4)(A) of Perkins V).***

Colorado's Career Clusters are organized in six CTE industry sectors:

- Agricultural, Natural Resources and Energy;
- STEM, Arts, Design and Information Technology;
- Skilled Trades and Technical Sciences;
- Health Science, Criminal Justice and Public Safety
- Hospitality, Human Services and Education; and
- Business, Marketing and Public Administration.

CCCS has organized Colorado's existing CTE programs within a Career Clusters framework with 17 Clusters and 82 Pathways (Appendix B). Specialized CTE Pathways include Alternative Cooperative Education (ACE), Family and Consumer Sciences Secondary CORE and World of Work.

The Colorado CTE Programs of Study incorporate secondary education and postsecondary education elements including coherent and rigorous content aligned and integrated with challenging academic standards and relevant career and technical content in a coordinated, non-duplicative progression of courses that align secondary education with postsecondary education. The Programs of Study are designed to prepare students to succeed in high-skill, high-wage or in-demand occupations and in related postsecondary education.

As a local control state, Colorado will not develop state level Programs of Study, but will instead develop a model Program of Study for each sector. The Program of Study models will be developed by each CCCS Program Director for their content area and will include input from local CTE stakeholders. Collaboration among the Content Teams, CACTA, CACTE and staff work groups allow for substantive input and guidance on the continued development and implementation of model Programs of Study. It is anticipated that a model Program of Study for each content area will be completed by February 2020. These Program of Study models can be adopted by local grant recipients, allowing them the flexibility to develop the Programs of Study as their own, taking into consideration local needs, assets and resources before seeking approval for their local Program of Study through CCCS. Colorado is a large state with varied economies across its regions and vast distances between educational institutions. For this reason, it is critical that Programs of Study are localized to allow students and parents to identify the educational and career opportunities in their region.

To support local program efforts, Colorado created the Colorado Career Clusters model, Program of Study model and state level course naming conventions and state course descriptions. These tools provide local administrators and instructors the opportunity to develop localized Programs of Study based on high-quality models. Each of the model Programs of Study have identified related postsecondary programs in which secondary CTE students can enroll for concurrent enrollment. Colleges will be encouraged to recognize prior learning through work experience for adult learners engaged in approved Programs of Study. All types of articulated credit will be identified on the CTE Programs of Study. Each new CTE program must have a Program of Study in order to be approved by CCCS. Upon completion of the new program approval website, expected by June 30, 2020, every CTE program will develop at least one Program of Study with their relevant secondary and postsecondary partners. Additionally, the approval process for Programs of Study will be part of the new CTE online system. The new CTE online system will house the Program of Study applications, approval and public reports for specific education institutions.

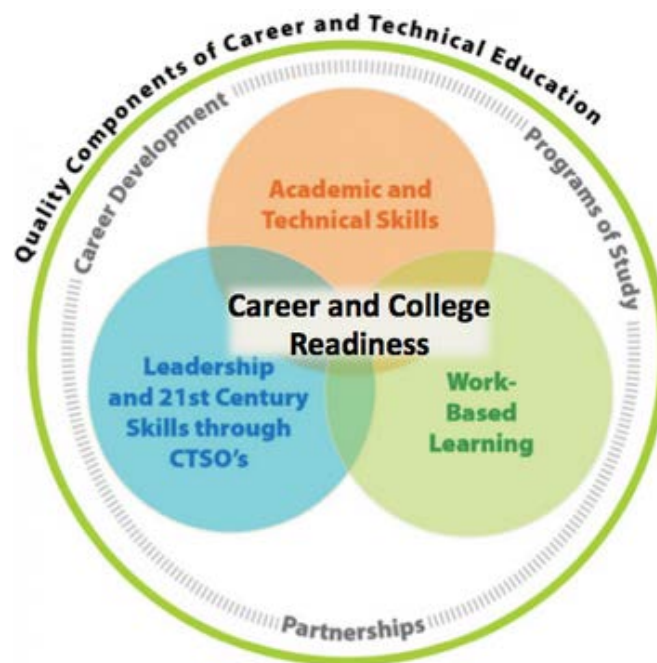
- b. *Describe the process and criteria to be used for approving locally developed programs of study or career pathways, including how such programs address State workforce development and education needs and the criteria to assess the extent to which the local application under section 134 will— I. promote continuous improvement in academic achievement and technical skill attainment; II. expand access to career and technical education for special populations; and III. support the inclusion of employability skills in programs of study and career pathways. (Section 122(d)(4)(B) of Perkins V).***

Tools provided by Colorado CTE assist with the implementation of the Programs of Study at a local level. The locally developed Programs of Study, based on the model templates developed in 2017, became an integral part of the CTE program approval process reviewed by CTE Program Directors. Colorado is transitioning to incorporating Programs of Study into its web-based program approval application system. Currently, new CTE programs must meet a set of standards for an initial four-year approval period. One of the requirements for approval of a new program as well as for renewal of an established program is that the institution offering the program document the economic or workforce demand for the program to help ensure positive employment opportunities for learners. Each CTE program is further required to have an advisory board comprised of at least 51 percent business and industry representatives. This helps ensure CTE programs address state workforce development, education and training needs.

Established programs must meet additional standards for program renewal approval that documents the program quality. At the secondary level, standards for CTE program approvals assure compliance with the Programs of Study criteria that include a coordinated, non-duplicative progression of courses that align secondary education with postsecondary education. Additionally, all secondary level CTE programs are strongly encouraged to provide at least one method by which students are given the opportunity to articulate to advanced level work. Such

methods include articulation agreements and dual/concurrent enrollment. Postsecondary level CTE programs are encouraged to provide their students with the opportunity to articulate to advanced level work where practical. State legislation allows community colleges to develop and provide Bachelor of Applied Sciences (BAS) degrees in career pathways that are not currently included in four-year college or university level studies. As with middle level CTE programs, BAS programs will be permitted to fund qualifying activities for their learners with Perkins funds, but may not use Perkins dollars for their program development or equipment.

Approved programs must include basic and advanced academic standards, specific technical standards and general employability standards including leadership standards. These standards have been supported by years of coordinated, extensive work of CCCS staff in developing CTE program crosswalks, aligning standards of the occupation to the CTE courses and the integration of leadership skills and concepts through CTSO involvement. CTSO activities integrated in the classroom enhance the academic curriculum and employability skills of communications, teamwork, leadership, goal setting and technology use. These standards align to Colorado P-12 Academic Standards (Common Core State Standards) and to the Postsecondary and Workforce Readiness (Essential Skills) indicators. The diagram below depicts the required elements of a CTE program in Colorado.



The CDE ESSA State Plan outlines strategies to provide well-rounded and supportive education to students to “ensure that all children have a significant opportunity to meet challenging state academic standards and career and technical standards, as applicable and attain, at a minimum, a regular high school diploma.” Within the ESSA State Plan, CDE identified key areas to support students from preschool through 12<sup>th</sup> grade: Supports for Early Childhood Education; Supports

for District-to-district Transfers and Transitions; Supports for High School, Postsecondary Education and Careers; Supports for Exceptional Students (including students who are gifted and students with a disability).

District-to-district transfers and transitions have a direct impact on CTE learners, instructors and schools because students who are highly mobile are more likely to fall behind academically and are at greater risk of dropping out of school. The tools and resources CDE provide for schools and district staff to support learners through school transfers and transitions are an asset to CTE program staff. Similarly, the materials and resources provided by CDE to assist educators in helping learners transition from middle school to high school are another set of resources that support CTE programs and instructors as they serve learners in their schools and programs. CDE's Offices of Postsecondary Readiness and Dropout Prevention and Student Engagement offer competitive district and school level grants to support activities that provide middle school youth and staff with activities that can engage them in CTE opportunities such as middle school student visits to high school and professional development opportunities for school counselors and staff to provide academic counseling which can assist them in having meaningful career conversations with students.

For special populations, equity and access involve delivering individualized possibilities for each learner to experience quality CTE programming in order to promote dissemination of and access to CTE programs throughout the state. Local programs can foster inclusivity by emulating and adapting practices that serve each learner with meaningful participation in CTE programs to address gaps in participation for special populations, pathways in nontraditional occupations and access to programs despite geographic areas. During the Program approval process, Programs of Study are required to demonstrate that access to the programs are open to all interested students. The program application will include performance data which will be reviewed to determine if Programs of Study are serving special populations. This information is reviewed by the CCCS Program Director for the content area. Relevant and quality data will provide insight and direction on previous and current program efforts to successfully serve special populations. Data can inform and point to historical trends and future opportunities and will be used to identify areas of focus, both geographically and programmatically, for local programs of study. Program or Perkins local applications can be denied if elements within the Program of Study, including budget and outcomes, do not align with state efforts to address equity and performance gaps.

Colorado invests in Comprehensive Guidance for PWR/essential skills that are aligned and integrated into the Colorado Academic Standards. PWR/essential skills are integral to student and program success and are necessary for each student navigating the education and workforce systems because they create a foundation for the student to build upon regardless of their chosen path forward. CDE provides resources to support transition from secondary education (high school) and from adult basic education programs to postsecondary education and careers. The Dropout Prevention and Student Re-Engagement Framework focuses on strategies surrounding

data analysis (attendance, course completion, dropout, graduation, etc.) in order to develop early-warning systems and interventions for students identified as at risk of dropping out or not on timeline to graduate. The Colorado Re-engagement Network (CRN) helps reduce dropout numbers by coordinating student re-engagement efforts and distributing information about best practices and procedures throughout the state.

Local programs will identify and strengthen opportunities for PWR skills within their programs of study. This will require systems alignment and coordination between the secondary, postsecondary and workforce programs at the local levels. CCCS will provide technical assistance to local programs that are not fully incorporating PWR skills into their programs of study. Colorado CTE believes this will assist with Strategic Goal 1: Increase Credential Completion in the CDHE Master Plan, which is shared by CDE's strategic plan.

As part of CCCS' program review process, a minimum of 10 percent of CTE programs eligible for renewal are identified for desktop monitoring in the renewal year. This provides CCCS Program Directors and education institutions an opportunity to perform a deeper dive into the program approval and program of study components as well as the data and assurances submitted by the individual CTE program. Desktop monitoring provides an opportunity for coaching to further the quality of the program if its renewal is approved.

The comprehensive needs assessment process required by Perkins V also provides an opportunity for CTE programs to regionally assess the quality of their existing CTE programs, alignment to labor market information, review data on subgroup performance, equity and access, and more. Colorado is requiring the needs assessment process be completed regionally, in part to better identify gaps in access to CTE programming, with the goal of identifying areas where collaborative projects or targeted assistance can be delivered to better serve workforce development and education priorities across the state.

Separately from the components required within an approved CTE program or program of study, the local application for career and technical education programs is used to detail how Perkins funds will be used to promote continuous improvement including in academic achievement and technical skill attainment, how access to CTE will be expanded for special populations and the extent to which PWR and essential skills are included in CTE programs. Questions providing narrative as well as assurances and the provision of a local budget detailing specific actions to be funded are included in the local application. As required in the law, all spending must relate to priorities identified in the comprehensive needs assessment process. The local application (Appendix C) is completed electronically in a template developed for Perkins V with input from representatives of consortia, small, medium and large secondary recipients, postsecondary grant recipients and CCCS Program Directors. Local recipients are provided with a self-review checklist to complete prior to submission of the local application. CCCS reviews applications

against a standard checklist and the results of the regional comprehensive needs assessment processes prior to granting approval of the application.

c. *Describe how the eligible agency will—*

- i. *make information on approved programs of study and career pathways (including career exploration, work-based learning opportunities, early college high schools, and dual or concurrent enrollment program opportunities) and guidance and advisement resources, available to students (and parents, as appropriate), representatives of secondary and postsecondary education, and special populations, and to the extent practicable, provide that information and those resources in a language students, parents, and educators can understand;*

Colorado has a state law that requires all local education providers at the secondary level to provide information about concurrent enrollment opportunities available to students as well as allowing them to access information about those opportunities. Additionally, Senate Bill 19-176 established a requirement for ongoing maintenance of a state level website to provide information about concurrent enrollment, for which CCCS will be collaborating with CDE in the development of the site. Assurances will be included in the Perkins applications for local grant recipients regarding sharing and making information available to the public for their Programs of Study. Additionally, the new CTE web-based system, which is estimated to be completed by June 30, 2020, will include a new program approval process which will include an assurance from each institution seeking approval of a CTE program that Program of Study information will be available in non-English languages identified as a need by local districts and institutions. A list of Colorado CTE public reports is available on the CCCS website. It includes information related to CTE Approved Programs, school codes, Classification of Instructional Programs (CIP) code lists, career pathways listings, trend data and concurrent enrollment. The reports contain real-time data and are available in both HTML and Excel formats. At the local level, school districts and colleges frequently make information about their offerings available to the public in a variety of languages and formats.

- ii. *facilitate collaboration among eligible recipients in the development and coordination of career and technical education programs and programs of study and career pathways that include multiple entry and exit points;*

CCCS has a concurrent enrollment coordinator who is responsible for facilitating secondary and postsecondary alignment opportunities for students. Visually, this can be seen in the Program of Study templates completed by each Colorado CTE program. In addition, CCCS supports and participates in state organization convenings, such as the Colorado Association for Career and Technical Education (CACTE), the state's professional association for CTE. These types of convenings provide the opportunity for secondary and postsecondary partners to collaborate, coordinate and align CTE programs. CCCS provides technical assistance through regional

meetings and professional development opportunities on topics impacting both secondary and postsecondary CTE programs and partners. Currently, both secondary and postsecondary partners sign off on Program of Study for the other entity when requests for program approval are submitted. This helps to ensure awareness and alignment between secondary and postsecondary partners. The new web-based CTE system will provide an automated process, but there will continue to be a sign off via signature or other electronic verification of postsecondary review and agreement with the submitted Programs of Study. These activities will ensure ongoing alignment across secondary and postsecondary CTE programs and will ensure more students complete a credential, helping to contribute to CDHE's Master Plan Goal 1: Increase Credential Completion (also CDE's strategic plan goal three).

- iii. *use State, regional, or local labor market data to determine alignment of eligible recipients' programs of study to the needs of the State, regional, or local economy, including in-demand industry sectors and occupations identified by the State board, and to align career and technical education with such needs, as appropriate;***

Current labor market information about occupations, training requirements and wages is crucial in order to make important decisions about career goals. The Colorado CDLE collects and disseminates information about employment levels and trends, wages and earnings, estimates of labor availability, industrial and occupational projections, business staffing patterns, career planning information and labor force demographics. The data are used to describe a local area's economic picture which impacts social, fiscal, technological and economic policies, employer hiring and other business decisions, allocation of funds by policy makers, individual career choices and educational programs. To provide current, valid and reliable labor market and workforce data and career information, the following resources are available across the state at no charge to the school, agency or individual user: Emsi, LMI Gateway, My Colorado Journey, TalentFOUND and the "Colorado Talent Pipeline Report." Representatives of local workforce areas have also partnered together to form the Workforce Intelligence Data Experts (WIDE) Group; this group can access EMSI data and deliver customized reports for partners and businesses. The CWDC, local workforce development boards, Industry Advisory groups and sector partnerships are great sources of additional labor market data. CCCS is providing regional labor market data within the Comprehensive Needs Assessment. The labor market data shows top regional and statewide occupations for each economic development region and include the following information: Standard Occupational Classification (SOC) code; Occupation Group; number of 2019 Jobs; number of 2024 Jobs; percent change in 2019-2024 Jobs; Annual Openings; 2024 Location Quotient; Median Hourly Earnings; and Median Annual Earnings. Programs of Study will be developed based on the needs identified in the Comprehensive Needs Assessment and must consider labor market needs and demands as part of the needs assessment process. CCCS Program Directors for the various content areas review the local application for Programs of Study prior to approving applications to determine if labor market data was used during the development of the Program of Study.

Colorado’s Career Success Program, which incentivizes secondary school districts to offer students the opportunity to earn industry recognized credentials is also a program that is tied to labor market information. The list of recognized credentials will be updated annually and will be based on the results of the “Colorado Talent Pipeline Report”; because the list is periodically updated, CCCS CTE staff have input into the list of recognized credentials eligible for incentive funding.

**iv. *ensure equal access to approved career and technical education programs of study and activities assisted under this Act for special populations;***

Through the comprehensive needs assessment process, districts, consortia, colleges and the Department of Corrections (DOC) will consider data and discuss the current gaps in providing access to CTE programs and programs of study regionally across each of the 14 economic development regions in Colorado. The resulting local applications should reflect new and continued mechanisms for ensuring equal access to CTE programs for special populations. Additionally, as outlined in this plan under Fiscal Responsibility (section C, 1-2) and Accountability for Results (section D, 5), CCCS may place conditions on grant awards or require implementation of local action plans if review of data does not show significant progress toward the goal of ensuring equity and access within CTE.

One of the CCCS Program Directors takes the lead on providing training and professional development on issues of equity, access and inclusivity; however, all CCCS CTE staff are equipped to support CTE programs around Colorado with reviews of their data, identification of causes of disparities and development of appropriate action plans. Review of data and other qualitative indicators of performance is a part of the CTE program approval and renewal process.

Alternative Cooperative Education (ACE) Career & Technical Education (CTE) is a multi-occupational pathway that facilitates individualized, developmentally appropriate programming for CTE students inclusive of students identified as Special Populations. This programming occurs primarily at the secondary level; however, postsecondary institutions are beginning to pilot ACE programming to better serve every learner. ACE CTE programming is developed through collaboration with educators, business representatives and community stakeholders. The collaboration creates locally responsive, relevant work-based and school-based learning experiences. ACE works in conjunction with other CTE content areas to provide technical skill attainment as well as a comprehensive program which includes school-based, community-based and student leadership opportunities. ACE CTE provides individualized, focused and intentional programming through the following program elements:

- Academic Foundations: Integrates intentional curriculum within State CTE and Academic standards aligned with current practices and expectations
- Business and Industry: Collaborates with business and industry to enhance student employability with a stronger understanding of employer expectations in order to develop professional and technical skills of students



- Capstones: Promotes a meaningful course sequence to meet graduation requirement
- Career Development using the Individual Career and Academic Plan (ICAP): Provides a multi-year process that intentionally guides students in the exploration of career, academic and postsecondary opportunities
- Independent Living: Develops social and emotional skills that enhance students understanding of how to productively live on one's own with a sense of personal and civic responsibility. The Division of Vocational Rehabilitation also provides supports in conjunction with CTE and WIOA programs in this area.
- Postsecondary and Workforce Readiness (PWR) – Develops knowledge, skills and competencies to promote employability, postsecondary and lifelong learning.
- Work-Based Learning (WBL) – Facilitates opportunities within the community, in school, volunteering, internships, apprenticeships and/or supported employment to emphasize the development of professional as well as industry specific technical skills.

ACE CTE provides student leadership opportunities through Successful Career Students of Colorado (SC)<sup>2</sup>, the ACE programs CTSO. Through (SC)<sup>2</sup>, students develop a number of skills including self-knowledge and human relations; career awareness — employability and entrepreneurship; community service and leadership (including financial leadership); and transition planning toward independent living.

- v. *coordinate with the State board to support the local development of career pathways and articulate processes by which career pathways will be developed by local workforce development boards, as appropriate;*

Per state legislation, CCCS employs a full-time staff person who is responsible for coordinating with the CWDC to identify and develop statewide pathways. CCCS coordinates with the CWDC to provide tools and resources related to the development of career pathways. In addition to a guide on Building Industry-Driven Career Pathway Systems in Colorado, the CWDC identifies current and upcoming career pathway initiatives in the state. This information is available to education and workforce partners across the state, including CTE programs and local workforce development boards.

- vi. *support effective and meaningful collaboration between secondary schools, postsecondary institutions, and employers to provide students with experience in, and understanding of, all aspects of an industry, which may include work-based learning such as internships, mentorships, simulated work environments, and other hands-on or inquiry-based learning activities; and*

There is tremendous energy about Work-Based Learning as a talent pipeline development strategy in Colorado, and WBL has always been an integral component of quality CTE programs. All CTE programs are required to demonstrate that career advisement and WBL

opportunities are available for learners. Within CTE, there are many examples of WBL happening within Colorado, the majority of which are occurring in the ‘Learning About Work’ category of the WBL continuum, which includes activities such as career counseling, career fairs, industry speakers and worksite tours. Career advisement and development is integral in the Learning About Work portion of the continuum because it provides the initial exposure and a deeper understanding to students about specific industries and careers. The WBL activities where educators have primary scope for organizing are shorter duration and can occur virtually or at a school occur most frequently. In the Learning Through Work category, activities range from clinicals and school-based enterprises to internships. Learning at Work occurs through apprenticeships and formalized employer placements.

CCCS and the CWDC currently provide work-based learning resources and toolkits for local education, business and workforce development staff. The multifaceted aspect of WBL programs requires clearly defined and readily available resources for students, employer work sites and educational institutions. Colorado is in the process of developing a web-based tool named “My Colorado Journey” for career counseling, work-based learning opportunities and information about education and training opportunities. This resource will provide job seekers, learners, parents and others access to skill and interest assessments, career exploration and information about education and training opportunities at whatever point the user is at in their education or employment journey. As it is implemented, this tool will be one more mechanism to make information available. The success of the WBL efforts requires the involvement and engagement of system partners. Alignment is intended to coordinate efforts, minimize duplication and allow partners and stakeholders to continue to meet their individual WBL program requirements. Other non-state agency partners, such as Colorado Succeeds, also support CTE educators in the implementation of WBL. CCCS is also involved in the Business Experiential Learning (BEL) Commission which seeks to engage businesses in educating and training students and workers; create electronic access for students and workers to document their skill attainment; and to create a portal of information to connect students, job seekers, schools, employers and service agencies with experiential learning, training opportunities and careers. Colorado also has the Career Success Program which provides financial incentives for school districts and charter schools that encourage secondary students to complete qualified industry credential programs, internships, residencies, construction pre-apprenticeship or construction apprenticeship programs, or qualified Advanced Placement (AP) courses.

- vii. *improve outcomes and reduce performance gaps for CTE concentrators, including those who are members of special populations. (Section 122(d)(4)(C) of Perkins V).***

CCCS employs a dedicated Program Director who is responsible for providing training and one-on-one technical assistance around issues of student equity and inclusion. Beyond this position, all CCCS Program Directors have the ability and skill set to review and discuss data related to outcomes and performance with local recipients.

ACE CTE students receive standards-based and individualized academic instruction, including technical skill attainment, work-based learning opportunities, PWR skills, Social Emotional Learning (SEL) and transition skills. The ACE CTE pathway provides three different and meaningful program implementation options based on each students' needs.

- ACE Core is a foundation course sequence/pathway. This pathway provides career ready practices and Essential Skills and Knowledge (ESKs); a foundation course each learner takes with some learners continuing in the course for longer periods of time; PWR, career development and computer and financial literacy; structured training plans; and WBL opportunities, as appropriate.
- ACE Cluster-based provides a collaborative learning and teaching environment between CTE instructors and ACE. This portion of ACE requires ACE Core as a prerequisite; co-enrollment in ACE and other CTE content course sequences that are developmentally appropriate (i.e., taking existing CTE courses); ACE instructors act as coaches to promote academic success and provide learning supports; collaborative instruction with CTE content instructor and ACE CTE instructor; purposeful co-enrollment in CTE content course(s) based on student interest and availability; WBL opportunities as appropriate; school-based enterprises; and utilizing structured training plans for students.
- ACE Specialized denotes a focus on WBL with a collaborative learning and teaching environment between CTE instructors and ACE instructors where the learner is most likely out of the school building for a significant portion of time and is engaged in cooperative learning. This portion of ACE requires ACE Core or ACE Cluster-based as a prerequisite; collaborative instruction with CTE content instructor and ACE CTE instructor; school-based enterprises; ACE instructor as coach and collaborator; WBL continuum; purposeful placement based on student interest and availability; career pathway support; and utilizing structured training plans for students.

The ACE model provides inclusive support to students, resulting in improved attendance and student engagement; application of core academic skills; improved graduation rate; decreased dropout rate; ability to identify and pursue Individual Career and Academic Plan (ICAP) and PWR goals; and employment and postsecondary placement.

- d. Describe how the eligible agency, if it chooses to do so, will include the opportunity for secondary school students to participate in dual or concurrent enrollment programs, early college high school, or competency-based education. (Section 122(d)(4)(D) of Perkins V).**

Colorado has numerous opportunities for students to participate in earning postsecondary credit. Concurrent opportunities are a requirement of the CTE program approval process. Additionally, CCCS has a position that is dedicated to serve as a liaison between secondary and postsecondary institutions for concurrent enrollment efforts. An increasing number of early colleges and P-

TECH schools or programs have appeared on the landscape as options for students as well. The state has taken steps to implement policies to award credit for both competency-based education as well as credit for prior learning assessment. At the secondary level, CDE's graduation guidelines encourage the development of policies supportive of competency-based education, including through student demonstrations of competence via portfolio or other work products. Postsecondary credit options are an area of interest and focus for multiple partners across Colorado and are sought after by secondary students and parents. CCCS will ensure that dual or concurrent enrollment opportunities are available as part of the CTE system; however, the use of Perkins funds for these activities will be minimal because districts already have the opportunity to be reimbursed a significant portion of these expenses through state legislated dollars. Funding the activities through Perkins funds would supplant state funds.

- e. ***Describe how the eligible agency will involve parents, academic and career and technical education teachers, administrators, faculty, career guidance and academic counselors, local business (including small businesses), labor organizations, and representatives of Indian Tribes and Tribal organizations, as appropriate, in the planning, development, implementation, and evaluation of its career and technical education programs. (Section 122(d)(12) of Perkins V).***

Separately from the comprehensive needs assessment process that includes each of these stakeholder groups who will help inform needs, gaps and feedback on current CTE programming at the local and regional level, Colorado has several other mechanisms for meaningful involvement. In Colorado, all approved programs must have a technical advisory committee that functions at the state, regional or local level to assist education providers in planning, conducting and evaluating their program curricula and operations. CCCS developed the Colorado CTE Advisory Committee Handbook to help educators and business and industry representatives strengthen career and technical education programs within a career pathways system through advisory committees. Each advisory committee is made up of individuals with experience and expertise in the occupational field(s) that the program serves who advise educators on the design, development, implementation, evaluation, maintenance and revision of CTE programs within a career pathway. An advisory committee is required for every approved CTE program in Colorado. Advisory committees allow the community to be linked to the educational system via business, industry and labor representatives that add expertise and resources to the CTE program; promote communication among education, business and industry regarding employment needs of the community; strengthen programs by providing student competency lists and reviewing curriculum; and ensure that each career pathway academic ladder matches the corresponding industry career ladder and promote career pathways within the community. The planning, development, implementation and evaluation of a CTE program is handled at the local level. CCCS encourages the active involvement of parents, academic and CTE teachers, administrators, faculty, career guidance and academic counselors, local business (including small business) and labor organizations in the planning, development and implementation of CTE programs. The

Local Advisory Committee is typically the forum through which stakeholders are included in local CTE program planning, development, implementation and evaluation. CCCS provides sub-recipients with a significant amount of guidance and assistance in the planning, development, implementation and evaluation of local CTE programs. CCCS State Board policy SP 9-47 defines the Program Review and Evaluation procedure for the state system community college programs which includes stakeholder engagement as part of the evaluation criteria.

Guidance and assistance are provided by state CTE staff and are informed by a sophisticated network of actively involved stakeholders. CCCS staff share information about their advisory committee's programs of work to help align continuous strategic planning based on data gathering and analysis. At the state level, both the Local Plan and the Program Approval/Renewal process provide an opportunity for evaluation of CTE Programs. External stakeholders are co-learners working with staff to provide insights and build the collective knowledge for program evaluation; however external stakeholders do not directly evaluate the CTE programs.

**f. *Include a copy of the local application template that the eligible agency will require eligible recipients to submit pursuant to section 134(b) of Perkins V.***

A copy of the current Perkins local application is currently in review by a statewide focus group and will be included in Appendix C of this plan.

**g. *Include a copy of the local needs assessment template that the eligible agency will require eligible recipients to submit pursuant to section 134(c) of Perkins V.***

A copy of the Comprehensive Local Needs Assessment is included in Appendix D of this plan. CCCS has structured the local needs assessments to occur on regional levels that match the state's 14 economic development regions. This will increase alignment opportunities between education and workforce programs and provides a more realistic picture of the labor market and economic drivers to which local programs are trying to respond. The needs assessment is designed as an opportunity to take an in-depth look at the entire local and regional CTE system in Colorado and identify areas where targeted improvements can lead to increased opportunities for student success. The comprehensive needs assessment presents an unprecedented opportunity to implement the goals of the new Colorado CTE Strategic Plan; create CTE programs and opportunities to ensure access and success for each learner that lead to high wage, high skill or in-demand occupations; ensure CTE programs of study are aligned to and validated by local workforce needs and economic priorities; set strategic short- and long-term goals and priorities to ensure coordinated program review and improvement processes; and regularly engage in conversation with stakeholders around the quality and impact of CTE programs and systems. The comprehensive needs assessment is a requirement for local entities seeking Perkins funds for any use, including programs of study and CTSOs.

- h. Provide the definition for “size, scope, and quality” that the eligible agency will use to make funds available to eligible recipients pursuant to section 135(B) of Perkins V.**

To be of sufficient size, scope and quality, a CTE program in Colorado must include the following components:

**Sufficient Program Length** – Each program completer definitions determine the minimum and maximum length of each program.

- **For secondary programs**, the minimum completion requirement will be equivalent to two yearlong courses (i.e., two Carnegie Units of instruction), an optimum program length will be three years of Carnegie Units, and a program may be longer. A program completer should be ready for entry-level employment or ready for the next level of advanced training as verified by the Technical Advisory Committee. A program concentrator is a student who, within the reporting year, is served by an eligible recipient and has completed at least two courses in an approved single CTE program or program of study (with a course being defined as equivalent to one full school year of credit in the specific program pathway). One course is the equivalent of one Carnegie Unit. Due to the variety of school schedules used across the state, the contact hours for this minimum will be at least 120 hours. A course may count toward completion of multiple pathways and be appropriate on multiple program approvals.
- **For postsecondary programs**, a postsecondary CTE certificate program (with occupational field of study specified) is an organized program of study intended to prepare students to enter skilled and/or paraprofessional occupations or to upgrade or stabilize their employment. This program is not intended for apply toward baccalaureate degree program requirements but may apply toward Associate Degree Program requirements.

An initial certificate in a program area needs to include the skills, knowledge, and competencies required for entry-level employment. Other certificates in the same program need to advance that skill level. In addition, to be of sufficient size and scope, a certificate program must at a minimum, consist of:

- **Option #1:** Two CTE courses\*; or
- **Option #2:** One, five credit hour CTE course\*

\*as determined by CCCNS Course approval process

Any certificate or degree of substantial length (i.e., 45 credits or more) must have an appropriate general education component (per the Higher Learning Commission). Area Technical Colleges are exempt from this requirement. A concentrator is a student who, within the reporting year, has completed a minimum of 12 credits in the approved CTE

program or who has completed the entire approved CTE program if it is 12 credits or fewer.

**Sequence of courses**

Each CTE program approved at the secondary or postsecondary level will be comprised of courses that include integrated academic, technical and employability (PWR) skills and progress in a sequence toward at least entry level employment or advanced training. Student learning must be assessed throughout a course as well as the program.

**Provide Work-Based Learning Experiences**

Another critical component of a CTE program is that it provides appropriate work-based learning. Work-based learning provides hands-on or realistic experiences for secondary learners that relate to the students’ CTE Program of Study. Work-based learning at the secondary level is defined by the continuum from CWDC TalentFOUND as a continuum of activities that occur, in part or in whole, in the workplace, providing the learner with hands-on, real-world experience.

Work-based learning options are required for secondary programs. Career exploration experiences are required for middle school programs and work-based learning is strongly encouraged in postsecondary programs. The WBL continuum shares the following information within the career awareness/exploration portion of the continuum:

Learning About Work		
<p><b>Career awareness and exploration</b> helps individuals build awareness of the variety of careers available and provides experiences that help inform career decisions.</p>		
<ul style="list-style-type: none"> <li>• Career Counseling</li> <li>• Career Planning</li> <li>• Career Fairs</li> </ul>	<ul style="list-style-type: none"> <li>• Career Presentations</li> <li>• Industry Speakers</li> <li>• Informational Interviews</li> </ul>	<ul style="list-style-type: none"> <li>• Mentoring</li> <li>• Worksite Tours</li> <li>• Project-based Learning</li> </ul>

In addition to the Learning About Work activities listed above, the work-based learning continuum identifies the following components related to career preparation and career training:

Learning Through Work	Learning at Work
<p><b>Career preparation</b> supports career readiness and includes extended direct interaction with professionals from industry and the community.</p> <ul style="list-style-type: none"> <li>• Clinical Experiences</li> <li>• Credit-for-work Experiences</li> <li>• Internships</li> <li>• Pre-apprenticeship</li> <li>• Industry-sponsored Project</li> <li>• Supervised Entrepreneurship Experience</li> </ul>	<p><b>Career training</b> occurs at a work site and prepares individuals for employment.</p> <ul style="list-style-type: none"> <li>• Apprenticeship</li> <li>• On-the-Job Training</li> <li>• Employee Development</li> </ul>

Access to quality work-based learning is provided to each interested student, especially special populations.

### **Leadership Development**

CTE programs also include embedded leadership development opportunities for learners, including through participation at the secondary level in CTE Student Organizations (CTSO). At both the secondary and postsecondary levels, this also includes embedded employability skills that help ensure postsecondary and workforce readiness skills.

### **Be Based on a Program of Study**

Each approved secondary and postsecondary program will be a portion of a complete program of study for students. A program of study serves as one type of career guidance and development tool to help learners understand the on and off ramps for a particular career pathway. Programs of study include information on recommended course sequencing at the secondary and postsecondary levels, postsecondary or advanced credit options, and applicable industry recognized credentials relating to a particular career path.

### **Industry Partnership**

CTE programs should be designed to meet industry need. To help ensure this is the case, an approved program must have active partnerships and engagement with business and industry. One method of demonstrating compliance with this requirement is a functional and active advisory committee for each program comprised of at least 51% business and industry members. Advisory committees should meet a minimum of two times per year to provide feedback and input on the CTE program. Some benefits of active advisory committees are that they provide a mechanism to help ensure CTE programs are teaching current and emerging technical skills using proper equipment and technology, and that CTE staff are aware of trends in industry that should be incorporated into the program.

### **Equal Access and Appropriate Facilities**

While equity, access, and inclusion are expected to be embedded in each component of a CTE program of sufficient size, scope and quality, it is expected that CTE programs will ensure at a local level that learners are aware of the options and benefits of participating in CTE and that each learner has access to do so. This can only happen if CTE programs occur in spaces that are appropriate to the needs of the program and the number of learners served. This includes ensuring sufficient equipment, instruction and safety protocols are in place.

### **Periodic Evaluation**

Periodic self-evaluation is strongly encouraged for all CTE programs. Additionally, all Colorado CTE programs will be reviewed for renewal purposes every four years at a minimum. This evaluation will occur through the program approval process and will use data-driven practices as well as a technical assistance and coaching model to ensure quality CTE programs for our learners and industry partners.



- 3. Meeting the Needs of Special Populations.**
- a. Describe its program strategies for special populations, including a description of how individuals who are members of special populations— i. will be provided with equal access to activities assisted under this Act; ii. will not be discriminated against on the basis of status as a member of a special population; iii. will be provided with programs designed to enable individuals who are members of special populations to meet or exceed State determined levels of performance described in section 113, and prepare special populations for further learning and for high-skill, high-wage, or in-demand industry sectors or occupations; iv. will be provided with appropriate accommodations; and v. will be provided instruction and work-based learning opportunities in integrated settings that support competitive, integrated employment. (Section 122(d)(9) of Perkins V).**

CCCS has several recurring and on-going efforts to meet the needs of Special Populations. The Colorado CTE Program Director for Special Populations, Counseling & Equity participates as a State Team Partner with the National Technical Assistance Center on Transition (NTACT) State Plan in collaboration with the CDE Office of Exceptional Student Services and CDLE Division of Vocational Rehabilitation. NTACT assists stakeholders in implementing evidence-based and promising practices that promote positive post-school outcomes for all students with disabilities. The NTACT State Team meets monthly and includes CDLE, CWDC, CDE Office of Exceptional Student Services Unit, CDE Office of Postsecondary and Workforce Readiness, CDHE and CTE. CDLE hosts Think Big, an annual conference for young adults and young adult service providers in Colorado. Attendees come from the state, county, local areas and communities across Colorado, and all play a role in helping young adults identify and overcome barriers, set education and career goals, and transition to adulthood and independence. Topics at the conference include WIOA, Career Pathways, Special Populations, Work-based Learning, Work Readiness and Coaching Practices, National Youth Engagement Models, Trauma Informed Care, Social Enterprise Models and Mental Health & Self Care. CTE presents breakout sessions at the Think Big conference in partnership with Special Education, ACE, Division of Vocational Rehabilitation (DVR), School to Work Alliance Program (SWAP) and Work-based Learning initiatives.

In the state's ESSA Plan, CDE describes efforts and considerations made for all learners including specific subgroups of students, many of which are also considered Special Populations in the State Perkins Plan: low-income students; lowest-achieving students; English learners; students who are gifted and talented; students with disabilities; students in foster care; migratory students; homeless students; neglected, delinquent and at-risk students identified under Title I, Part D of ESSA, including students in juvenile justice facilities; immigrant students; students in LEAs eligible for grants under the Rural and Low-Income School program under section 5221 of the ESSA; and American Indian and Alaska Native Students.

The CDE's Exceptional Student Services Unit (ESSU) Office of Special Education seeks to prepare students to be fully engaged in college or employment after high school. Technical assistance for educators and leaders is a key component of CDE's efforts to accomplish this. Included in this technical assistance is CDE's work around ensuring the implementation of Colorado's Graduation Guidelines supports positive outcomes for each learner. Some efforts around technical assistance to improve outcomes for every student, including members of special populations, include professional learning opportunities; universal professional development for instructors who work with students to support instruction for Tiers I, II and III; and disability specific resources.

Additionally, compliance checks will be incorporated into CCCS systems and processes; however, minimum compliance is not considered sufficient to successfully serve every student who comes to our grant recipients' doors. Equity, access and inclusion will be foundational to Colorado's approach to developing strategies and promising practices that will be reviewed and shared as appropriate. Additionally, Colorado CTE staff will be provided training to equip instructors, counselors, student organization advisers and others to have meaningful career conversations with every student in our state.

Through the comprehensive needs assessment process, Colorado requires that a variety of data be reviewed including where gaps may exist. As part of the needs assessment process, local partners and stakeholders will be required to work collaboratively to identify and analyze gaps, such as those related to special populations, and to identify solutions for addressing gaps and leveraging opportunities. It is expected that, in addition to the needs assessments occurring locally, grant recipients will continue the dialogue with their partners and respond to questions in the local grant application indicating how funding may be used to help address some of the gaps identified.

CCCS will supplement the local application descriptions with two more systems that monitor equitable access.

1. Each CCCS approved career and technical education program must be renewed for approval a minimum of once every four years. The four-year program renewal review includes analysis of student enrollment demographics including enrollment data of students with disabilities, gender and minorities.
2. CCCS has an Internal Audit division which conducts the Methods of Administration monitoring of local recipients' utilizing the federal Guidelines for Eliminating Discrimination and Denial of Services on the Basis of Race, Color National Origin, Sex and Handicap in Vocational Education Programs - 34 CFR, Part 100, Appendix B (Guidelines), as required by Methods of Administration (MOA) with the United States Department of Education, Office for Civil Rights for compliance monitoring throughout Perkins V. The review criteria have substantial emphasis on ensuring that sub-recipients

take appropriate steps to ensure that individuals with protected status, including individuals with disabilities, will be provided with equal access to activities and services.

School districts ensure appropriate accommodations through the provision of Section 504 or individual education plans for eligible students. At the postsecondary level, student services have a coordinator who works with students to determine eligibility and appropriate accommodations as well. Employees such as CTE teachers, paraprofessionals, counselors and advisers are expected to be provided appropriate accommodations as stipulated by local, state and federal policies as well.

The ACE CTE program discussed in the Implementing Career and Technical Education Programs and Programs of Study portion of this plan (plan sections B, 2, c, iv and vii) is another strategy for focusing on and serving Special Populations in Colorado's CTE system. ACE CTE students will demonstrate competency in PWR skills that lead to technical skill attainment in any chosen occupation with a focus on high-skill, high wage or in-demand occupations that promote self-sufficiency. WBL is at the foundation of the ACE program design, coursework and post-school outcome for ACE CTE students. As seen in the 12 required courses found with ACE CTE, WBL is reflected as follows:

- **ACE IN-SCHOOL WORK-BASED LEARNING** (*As a pre-requisite, students should have already taken or be simultaneously enrolled in the ACE Career Development (CD I-III) course sequence*)  
As developmentally appropriate, this course (or series of courses) is designed for students to develop basic employment skills by participating in an in-school work/school-based enterprise experience. A training plan and evaluation (to be filled out by the supervisor/employer) will be developed listing job specific technical skills the student will learn during the experience. Hours worked will be documented. Students will demonstrate levels of self-awareness, career exploration, postsecondary option knowledge and employability skills. ACE teachers serves as a coach and mentor checking in with the supervisor/employer regularly
- **WE-II – ACE COMMUNITY WORK-BASED LEARNING** (*As a pre-requisite, students should have already taken or be simultaneously enrolled in the ACE Career Development (CD I-III) course sequence*)  
As developmentally appropriate, this course (or series of courses) is designed for students to enhance employment skills by participating in a community-based work experience (paid or unpaid). A training plan and evaluation (to be filled out by the supervisor/employer) will be developed listing job specific technical skills the student will learn during the experience. Hours worked will be documented. Students will demonstrate levels of self-awareness, career exploration, academic planning based on postsecondary aspirations and realistic options, employability skills and environmental

expectations. ACE teachers serves as a coach and mentor checking in with the supervisor/employer regularly.

- **WE-III – ACE INTENTIONAL WORK-BASED LEARNING** (*As a pre-requisite, students should have already taken or be simultaneously enrolled in the ACE Career Development (CD I-III) course sequence*)

As developmentally appropriate, this course (or series of courses) is designed for students to refine career specific skills and knowledge by participating in an intentional work experience within the field listed in their career plan. These experiences may include internships, apprenticeships, competitive employment, etc. A training plan and evaluation (to be filled out by the supervisor/employer) will be developed listing job specific technical skills the student will learn during the experience. Hours worked will be documented. Students will demonstrate levels of self-awareness, career exploration, intentional academic planning based upon postsecondary aspirations, realistic options and the environmental expectations of the workplace, as well as personal financial literacy. ACE teachers serves as a coach and mentor checking in with the supervisor/employer regularly.

In order to qualify as an ACE CTE instructor, the ACE Endorsement requires a certain number of semester hours focused on WBL. The recent WBL Coursework delivered for the WBL credential is aligned to the content required for this endorsement. The majority of ACE CTE instructors will receive this content and some will simultaneously obtain a WBL credential due to the nature of their role, responsibility and professional objectives. There is a direct connection between WBL and ACE CTE in the state of Colorado as one would see in all CTE Content areas.

#### **4. *Preparing Teachers and Faculty.***

- a. ***Describe how the eligible agency will support the recruitment and preparation of teachers, including special education teachers, faculty, school principals, administrators, specialized instructional support personnel, and paraprofessionals to provide career and technical education instruction, leadership, and support, including professional development that provides the knowledge and skills needed to work with and improve instruction for special populations. (Section 122(d)(6) of Perkins V).***

Colorado, like most states is facing instructor shortages. CCCS will utilize state leadership funds to coordinate with teacher preparation programs on CTE related recruitment. CCCS partners with professional organization such as CACTE, the primary CTE professional organization in Colorado, to identify recruitment and preparation needs for instructors and to provide professional development opportunities to address these issues. CCCS provides support for a special populations conference, paying for the conference space to ensure programs and instructors have access to meaningful professional development to support them in their work with and instruction for special populations. CCCS and local areas share responsibility for

instructor talent development, including resources and opportunities for professional development and technical assistance. Colorado is a local control state and cannot mandate professional development plans for local grant recipients or individual instructors. However, CCCS can provide professional development opportunities and invite locals to attend. Most CCCS Program Directors provide teacher orientation on an annual basis for new instructors or have a mentoring component to support new instructors within their content areas. CCCS also collaborates with teacher preparation institutions and alternative licensure programs to ensure teachers are prepared to provide instruction aligned to Colorado CTE program standards, curriculum course standards and CTSO advisement.

In the ESSA State Plan, CDE identifies “root causes” related to instructor recruitment and retention issues. The Root Causes and Mediating Causes, as identified by the ESSA State Plan, are:

<b>Higher turnover rates</b>	
<b>Root Causes</b>	<b>Mediating Causes</b>
1. Colorado's educator pipeline is not providing an adequate supply of candidates in specific areas.	1. Inexperienced teachers often lack the skills needed to meet the needs of struggling learners.
2. School leaders have not been consistently prepared with the necessary skills to serve as instructional leaders.	2. School leaders experience difficulty in retaining the best teachers in the current educational environment.
3. Teachers have inconsistent access to induction programs that include coaching and mentoring, strategies for working with struggling learners and instructing on the Colorado Academic Standards.	3. Teachers feel unsupported, unprepared, and frustrated in their current positions.

One opportunity to mitigate the identified root causes, is through the use of the Self-Assessment for Healthy Human Capital Systems Tool. As stated in the ESSA State Plan, “This tool enables LEAs to self-assess their local systems in the following five strategic areas: 1) Optimizing new educator supply; 2) Boosting the effectiveness of all educators; 3) Retaining and leveraging the most effective educators; 4) Prioritizing effective educators for high-need students; and 5) Improving or exiting persistently less effective educators.”

## C. Fiscal Responsibility

1. *Describe the criteria and process for how the eligible agency will approve eligible recipients for funds under this Act, including how— a. each eligible recipient will promote academic achievement; b. each eligible recipient will promote skill attainment, including skill attainment that leads to a recognized postsecondary credential; and c. each eligible recipient will ensure the local needs assessment under section 134 takes into consideration local economic and education needs, including, where appropriate, in-demand industry sectors and occupations. (Section 122(d)(5) of Perkins V).*

In Colorado, eligible recipients are identified according to Sections 2, 3, 131 and 132 of the Strengthening Career and Technical Education Students for the Twenty-First Century Act. Section 2 stipulates that the purpose of the law is to “develop more fully the academic knowledge and technical and employability skills of secondary education students and postsecondary education students who elect to enroll in career and technical education programs and programs of study”. Each eligible recipient that has a CTE program and program of study approved by the State Board for Community Colleges and Occupational Education or that does not offer CTE programs itself, but has a legal contract for CTE programming with an eligible recipient may be approved to receive funds under this Act.

To have an approved CTE program or program of study in Colorado requires that the local educational agency has successfully completed the program approval process. Program approval requires completion of an approved program of study that leads to a recognized postsecondary credential, offering a sequence of CTE courses sufficient in size, scope and quality to comprise a CTE program, offering work-based learning opportunities to students, leadership development such as through a CTE student organization and the integration of applied academics. CCCS Program Directors review the program approval applications to determine if the promotion of academic achievement will occur within the proposed program of study. The program approval process also has elements of quality embedded such as the extent to which advisory committees comprised of business and industry representatives are included in program oversight.

Annually, CCCS will send an ‘intent to participate’ request to all potential eligible recipients in Colorado. Entities responding by the deadline in the affirmative will be reviewed to determine their eligibility. All eligible entities will be included in the formula for the year and will also meet initial eligibility criteria to participate in the competitive process for supplemental reserve dollars targeted to specific priorities aligned with the state CTE strategic plan.

In Colorado, eligible recipients may receive basic grant funds after the approval of their annual Perkins local application. Each application must address how the recipient will:

- Promote academic achievement. This information will be detailed on the local application and will include information related to the comprehensive needs assessment and at the secondary level, will include CTSO learning opportunities and graduation requirements.
- Promote skill attainment, including skills leading to a recognized postsecondary credential. Program applications must include information related to the program of study's expectations around work-based learning efforts, industry approved certifications and credentials and advanced degree options.
- Ensure the comprehensive needs assessment considers local economic and education needs, including high-skill, high-wage or in-demand industry sectors and occupations. CCCS created a local needs assessment template that eligible recipients are required to submit in order to receive CTE program approval or other funds for CTE Programs of Study, courses or CTSO activities. The needs assessment requires each eligible recipient to demonstrate consideration of workforce needs and economic trends, including high-skill, high-wage or in-demand industry sectors and occupations.

The needs assessment will be conducted at a regional level, based on Colorado's 14 economic development regions. The law refers to this assessment as the comprehensive local needs assessment (CLNA). This reference (CLNA) applies to the regional approach Colorado is implementing. Each district, college and state corrections institutions in Colorado desiring to operate an approved CTE program is required to actively participate in the comprehensive needs assessment process. At the local level, colleges, districts and consortia will still have local items to prepare and bring to the larger regional process. There are multiple benefits to a regional approach to the comprehensive needs assessment: the advantage of working with shared stakeholder groups including secondary and postsecondary faculty and administration, representatives of special populations, state or local workforce boards, parents and students, business and industry, Tribal organizations and government agencies representing a common region; increases the focus on collaboration, including secondary/postsecondary alignment, program quality and alignment to labor market needs; identifies similar needs and data to meet the needs within the economic region; and is a more efficient use of resources in preparing for and completing the comprehensive needs assessment.

Districts and colleges generally fell within the identified economic development regions. Where districts or Perkins consortia membership bridged a boundary, districts were assigned to the region of the fiscal agent or to a single economic development region. Where postsecondary institution service areas crossed multiple economic development regions, colleges generally were assigned to participate in each applicable region. The Charter School Institute serves as the local education agency for public charter schools in Colorado and has charter schools in multiple economic development regions. In consultation with the Charter School Institute, CCCS determined that the Charter School Institute would be assigned as an education partner to the economic development region in which it had the most approved CTE programs. In any region where the Charter School Institute has public charter schools, those schools will be included in

the regional needs assessment process as stakeholders. Colorado's Department of Corrections will similarly participate as an educational partner in region seven where its CTE program approvals are housed, and will participate as a stakeholder in other needs assessment conversations around Colorado, as resources permit.

CCCS will provide a standard comprehensive needs assessment template to be used across Colorado and trained facilitation teams upon request. CCCS will also provide current and accurate economic and workforce data (i.e., anticipated growth in high wage, high skill, in-demand occupations) statewide and by region. The final product of Colorado's regional approach will be the completion of the needs assessment results. The needs assessment results will identify the significant priorities Perkins eligible recipients will use for the use of Perkins funds in the local application. Alignment with needs assessment results and the State's strategic CTE plan will also be critical for successful competitive applications for reserve fund awards.

Pooling of funds between secondary and postsecondary entities in order to expand CTE opportunities for learners is allowable and encouraged. Perkins funds that are pooled will lose their individual identity as secondary or postsecondary funds and may be used for approved CTE programs and programs of study that benefit all partners involved in the pooling of funds. While pooled funds lose their individual identity, they will maintain their identity as federal Perkins funds and are subject to Perkins V usage, tracking and reporting requirements. To pool funds between two or more eligible recipients, the districts and/or institutions involved must have a formal agreement in place. The formal agreement can be, but is not required to be, a Memorandum of Understanding. The agreement is to be signed by both parties and will detail the district or institution acting as the fiscal agent for the pooled funds, as well as the responsibilities and expectations of each entity involved in the pooling of funds. Any party seeking to pool Perkins funds must be a Local Education Agency (LEA) and have an approved CTE program or program of study. The intent to pool funds will be included in the local Perkins application for each LEA involved in the partnership. If approved, the identified portion of funds for each LEA will be included in the budget for the identified fiscal agent.

In Perkins V, reserve funds will be distributed primarily through a competitive process, which will be documented, reviewed and updated annually. A work group of multiple stakeholders will provide feedback into the initial competitive process and application as well as the method of evaluation of applications. Projects approved through the competitive proposal process will be published on the CTE website [www.coloradostateplan.com](http://www.coloradostateplan.com) as will results and promising practices of those projects.

- 2. *Describe how funds received by the eligible agency through the allotment made under section 111 of the Act will be distributed— a. among career and technical education at the secondary level, or career and technical education at the postsecondary and adult level, or both, including how such distribution will most effectively provide students with***



*the skills needed to succeed in the workplace; and b. Among any consortia that may be formed among secondary schools and eligible institutions, and how funds will be distributed among the members of the consortia, including the rationale for such distribution and how it will most effectively provide students with the skills needed to succeed in the workplace. (Section 122(d)(8) of Perkins V).*

In Colorado, funds received are distributed according to the following allotments and calculations. These distribution methods are expected to provide students with the skills needed to succeed in the workplace by ensuring resources are distributed broadly across the state and that supplemental resources targeting specific needs can be funded through reserve funds.

State Administration: 5%

- Activities related to developing the State Plan; reviewing local applications; monitoring and evaluating program effectiveness; compliance oversight; providing technical assistance; and supporting/developing the state data systems related to Perkins

State Leadership Activities: 10%

- A minimum of 0.1% of leadership funds used for recruitment of special populations
- \$60,000 used for preparation for nontraditional career fields
- \$60,000 used in state correctional institutions

Local Education Agencies (LEAs): 85%

- 85% of the LEA designated funds used for non-reserved purposes
  - 60% to eligible and participating postsecondary institutions
  - 40% to eligible and participating secondary school districts
- 15% of the LEA designated funds used for reserved purposes
  - One-third of reserve funds will be distributed to secondary and postsecondary recipients that are considered 'rural'. CDE annually updates a listing of districts considered rural and any district meeting any of the rural thresholds will be considered rural. Additionally, postsecondary institutions whose primary campus is located in a district considered rural will also be defined as rural.
    - Within the one-third of funds for rural distribution, 60% will be distributed to secondary districts.
    - 40% of the one-third will be distributed to postsecondary institutions (there are significantly fewer postsecondary institutions considered rural than secondary districts, so this ensures more equity in the amounts).
  - Distribution of the remaining two-thirds of reserved funds will be competitive in order to spur scalable or replicable innovation projects that enhance the provision of CTE students with skills needed to succeed in the workplace at secondary and

postsecondary levels (Colorado CTE believes this will assist with Strategic Goal 4: Invest in Affordability and Innovation in the CDHE Master Plan.) These funds will not be differentiated by secondary or postsecondary as it is expected that applications will generally include a collaboration between secondary and postsecondary. Competitive funds will not be reimbursed for activities outside of the scope of the selected proposals.

- For all eligible recipients, reserve funds must be used on the local uses of funds activities under Section 135 of Perkins
- CCCS reserves the option to use reserve funds unspent from the prior fiscal year for competitive proposals rather than redistribution to rural recipients.
- LEAs who receive funds must have a CCCS approved CTE program or contract with an eligible recipient.
- Colorado has no postsecondary recipients that receive less than \$50,000 as stipulated in section 132(c), so consortium membership is not currently required at the postsecondary level.
- Secondary districts that receive less than \$15,000 in basic grant funds as stipulated in section 131(c) are required to enter into a consortium agreement with other local educational agencies.
  - In a consortium agreement where the combined allocation of basic grant funds is less than \$15,000, expanding the consortium is encouraged, but will not be required.
    - For competitive awards from reserve funds, any LEA interested in applying may do so, regardless of their participation within a consortium. Additionally, consortia of LEAs for competitive awards are not required to match membership of consortia used for basic fund local applications.
  - Requests for exemption from consortia membership will be limited and the requirement will only be waived in instances where the requesting LEA can demonstrate through documentation that a consortium agreement could not be reached, in addition to meeting at least one of the below criteria:
    - The LEA is located in a rural, sparsely populated area; or
    - Distances to participate in a consortium are excessive due to remote location or unique geographical distances.
- Consortia receive the total of each member district's allocation.
  - Consortia members are informed of the total allocation estimate (not the formula amount per member district).
  - Annual applications and budgets are submitted to CCCS for approval per consortium, rather than per member district.
  - Projects funded are developed by membership consensus and are mutually beneficial to all members. CCCS reserves the right to add grant conditions or

require implementation of action plans if it determines projects are not mutually beneficial to all members.

The Colorado Community College System will continue with its historical split of 60% of the Non-Reserved Local funds for postsecondary education and 40% for secondary education for the following reasons:

- All postsecondary area technical colleges (ATC) are included in the postsecondary percentage split.
- Average per pupil funding for secondary students is significantly higher than the College Opportunity Fund (COF) stipend per Student Full-time Equivalent (SFTE) for postsecondary students.
- Through the Colorado Technical Act state appropriations, secondary recipients receive approximately \$25 million to help offset the high cost of secondary CTE programs.

**3. *Provide the specific dollar allocations made available by the eligible agency for career and technical education programs and programs of study under section 131(a)-(e) of the Act and describe how these allocations are distributed to local educational agencies, areas career and technical education schools and educational service agencies within the State. (Section 131(g) of Perkins V).***

The allocation for secondary CTE programs and programs of study is \$5,628,805. The secondary school district's allocations are calculated based on Section 131 and Section 112(c) of the Act.

In Colorado, LEAs are defined as the secondary school district or BOCES as authorized by the CDE. Allocations are distributed to LEAs/Consortia following the approval of annual Perkins local applications which include a budget. CCCS does not determine how much of the LEA allocation is distributed to each CTE program or program of study unless conditions are applied to a particular grant award or an action plan is being implemented. The LEA/Consortia determine the amount awarded to each CT-program program of study including awards to charter schools and Designated Career Technical Schools (DCTS). The DCTSs are secondary centers that house multiple secondary CTE programs (usually higher cost, lab-intensive programs) for the entire district. Any student in the school district can participate in these programs, and these schools often contract with neighboring districts to provide access to additional students as well. The district may also have other approved CTE programs located in the district's comprehensive high school(s). These programs also can receive the funding, again, based on the district's local application and budget as submitted to and approved by the state annually. Distribution of Perkins funds occur through reimbursement to the LEA/Consortia.

- 4. *Provide the specific dollar allocations made available by the eligible agency for career and technical education programs and programs of study under section 132(a) of the Act and describe how these allocations are distributed to eligible institutions and consortia of eligible institutions within the State.***

The allocation for postsecondary CTE programs and programs of study is \$8,565,797. The postsecondary allocations are calculated based on Section 132 and Section 112(c) of the act.

The allocation for postsecondary CTE programs and programs of study is \$8,565,797. The postsecondary allocations are calculated based on Section 132 and Section 112(c) of the act.

In Colorado, postsecondary agencies eligible for Perkins funds include all Colorado public community colleges and three postsecondary area technical colleges (ATCs). Perkins funds are for approved CTE programs that award certificates or associate degrees. An ATC is a postsecondary area vocational school authorized by State legislation. ATCs and Technical Colleges award postsecondary certificates but they do not award postsecondary degrees. CCCS has implemented a statewide articulation agreement that allows ATC graduates to transfer completed certificates of 45 credits or less to a community college and then complete an AAS degree in Applied Technology by completing an additional 15-18 credits of general education courses through the community college. Allocations are distributed to eligible postsecondary institutions following the approval of annual Perkins local applications, which includes a budget. Distribution of Perkins funds occur through reimbursement to the institutions.

- 5. *Describe how the eligible agency will adjust the data used to make the allocations to reflect any changes in school district boundaries that may have occurred since the population and/or enrollment data was collected, and include local education agencies without geographical boundaries, such as charter schools and secondary schools funded by the Bureau of Indian Education. (Section 131(a)(3) of Perkins V).***

When a school district changes boundaries, splits or merges, CCCS revises formula populations as soon as the new population information is available. CCCS partners with CDE to obtain any population data changes if school district boundaries change. In Colorado, Charter School Institute (CSI) is a division of CDE that authorizes non-district charter schools in the state. Since these charter schools are not part of a school district and are not limited to a normal school district boundary, the formula calculation is adjusted to ensure distribution of Perkins funds to these eligible charter schools through the Charter School Institute (CSI). CSI operates as the LEA for its charter schools. Once the number of students living within district boundaries and attending a CSI school are calculated, CCCS uses the calculation to adjust the poverty population rate for each district. The district's poverty rate is applied to the number of students living within district boundaries and attending a CSI school to calculate youth in poverty numbers for CSI schools from across district boundaries. CSI schools have fields in the funding formula, like all school districts, for the poverty, population and unduplicated CTE enrollment figures. This

methodology is consistent with what was approved by the U.S. Department of Education's Office of Career, Technical and Adult Education under previous versions of Perkins. Colorado does not have any districts operated by the Bureau of Indian Affairs.

6. ***If the eligible agency will submit an application for a waiver to the secondary allocation formula described in section 131(a)— a. include a proposal for such an alternative formula; and b. describe how the waiver demonstrates that a proposed alternative formula more effectively targets funds on the basis of poverty (as defined by the Office of Management and Budget and revised annually in accordance with section 673(2) of the Community Services Block Grant Act (42 U.S.C. 9902(2)) to local educational agencies with the State. (Section 131(b) of Perkins V). Also indicate if this is a waiver request for which you received approval under the prior Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV).***

Colorado will not be submitting a waiver to the secondary allocation formula.

Colorado will continue to distribute the secondary funds as follows:

Non-reserve funds for secondary recipients (40% of 85% of the Total Local Funds Allocation) are distributed per the following formula:

- 75% is allocated to eligible secondary school districts in proportion to the number of individuals aged 5 through 17, inclusive, who reside in the school district and are from families below the poverty level for the preceding fiscal year as determined on the basis of the most recent satisfactory data used per the ESEA of 1965, compared to the total number of such individuals who reside in the school districts served by all school districts in the state for such preceding fiscal year.
- 30% is allocated to eligible secondary school districts in proportion to the number of individuals aged 5 through 17, inclusive, who reside in the school district for the preceding fiscal year compared to the total number of such individuals who reside in the school districts served by all school districts in the state for such preceding fiscal year, as determined on the basis of the most recent satisfactory data provided to the Secretary by the Bureau of the Census for the purpose of determining eligibility under title I of the ESEA of 1965.

7. ***If the eligible agency will submit an application for a waiver to the postsecondary allocation formula described in section 132(a)— a. include a proposal for such an alternative formula; and b. describe how the formula does not result in a distribution of funds to the eligible institutions or consortia with the State that have the highest numbers of economically disadvantaged individuals and that an alternative formula will result in such a distribution. (Section 132(b) of Perkins V). Also indicate if this is a***

***waiver request for which you received approval under the prior Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV).***

The State Board for Community Colleges and Occupational Education (SBCCOE) will submit an application for a waiver to the postsecondary allocation formula. The waiver requests to distribute non-reserved funds for postsecondary recipients (60% of 85% of the total local funds allocation) per the following formula:

- 90% of the non-reserved postsecondary fund share shall be allocated on the number of individuals who are Federal Pell Grant Recipients enrolled in such institutions in the preceding fiscal year.
- 10% of the non-reserved postsecondary fund share shall be allocated on the number of non-Pell grant recipients enrolled in such institutions in the preceding fiscal year who receive financial assistance from the Colorado Department of Human Services.

The proposal is designed to better serve low-income students when an ATC or other postsecondary institution has a significant population of economically disadvantaged (ED) students not participating in federal financial aid programs and provides more equitable distribution of funds to eligible postsecondary agencies with high numbers of ED students. It will also more accurately capture the total population of ED students across the state and mirrors previous approved waivers under Perkins III and IV.

- 8. *Provide the State's fiscal effort per student, or aggregate expenditures for the State, that will establish the baseline for the Secretary's annual determination on whether the State has maintained its fiscal effort, and indicate whether the baseline is a continuing level or new level. If the baseline is new, please provide the fiscal effort per student, or aggregate expenditures for the State, for the preceding fiscal year. (Section 211(b)(1)(D) of Perkins V).***

For the fiscal year ending June 30, 2018, Colorado's aggregate CTE expenditures were \$26,814,481. This baseline is a continuing level.

## **D. Accountability for Results**

- 1. *Identify and include at least one (1) of the following indicators of career and technical education program quality— A. the percentage of CTE concentrators graduating from high school having attained a recognized postsecondary credential; B. the percentage of CTE concentrators graduating high school having attained postsecondary credits in relevant career and technical education programs and programs of study earned through a dual or concurrent enrollment program or another credit transfer agreement; and/or C. the percentage of CTE concentrators graduating from high school having participated in work-based learning. (Section 113(b)(2)(A)(iv)(I) of Perkins V). Include any other measure of student success in career and technical education that is statewide, valid, and reliable, and comparable across the State. (Section 113(b)(2)(A)(iv)(II) of Perkins V). Provide the eligible agency’s measurement definition with a numerator and denominator for each of the quality indicator(s) the eligible agency selects to use.***

As an indicator of career and technical education program quality, Colorado will use the percentage of CTE concentrators graduating from high school having participated in work-based learning.

The definition for the **(5S3) Program Quality – Participated in Work-Based Learning** measure is:

- **Numerator:** Total number of CTE **concentrators** graduating from high school during the current academic year having participated in work-based learning\* in any year as part of the CTE program.
- **Denominator:** Total number of CTE **concentrators** graduation from high school during the current academic year

\*WBL includes: Apprenticeship, On-the-Job Training, Clinical Experience, Credit for Work Experience, Internship, Pre-Apprenticeship, School-Based Enterprise Managed by Students.

- 2. *Provide on the form, for each year covered by the State plan beginning in FY 2020, State determined levels of performance for each of the secondary and postsecondary core indicators, with the levels of performance being the same for all CTE concentrators in the State. (Section 113(b)(3)(A)(i)(I) of Perkins V).***

In Colorado, the state levels of performance will also act as the local levels of performance. CCCS does not intend to negotiate individual levels of performance with local grant recipients. Definitions for secondary and postsecondary performance metrics are in Appendices E and F.

### State Levels of Performance and Targets by Reporting Year

Metric	Reporting Year				
	2020	2021	2022	2023	2024
<b>SECONDARY</b>					
1S1 - Four-Year Graduation Rate	83.00%	83.25%	83.50%	83.75%	84.00%
1S2 - Extended Graduation Rate	91.00%	91.25%	91.50%	91.75%	92.00%
2S1 - Academic Proficiency in Reading/Language Arts	35.00%	35.50%	36.00%	36.50%	37.00%
2S2 - Academic Proficiency in Mathematics	35.00%	35.25%	35.50%	35.75%	36.00%
2S3 - Academic Proficiency in Science	20.00%	20.25%	20.50%	20.75%	21.00%
3S1 - Post-Program Placement	90.00%	90.25%	90.50%	90.75%	91.00%
4S1 - Non-Traditional Concentration	39.25%	39.50%	39.75%	40.00%	40.25%
5S3 - Program Quality - WBL	5.00%	6.00%	7.00%	8.00%	9.00%
<b>POSTSECONDARY</b>					
1P1 - Postsecondary Retention and Placement	95.00%	95.10%	95.20%	95.30%	95.40%
2P1 - Earned Recognized Postsecondary Credential	95.00%	95.10%	95.20%	95.30%	95.40%
3P1 - Non-Traditional Program Concentration	14.00%	14.25%	14.50%	14.75%	15.00%

- 3. Describe the procedure the eligible agency adopted for determining State determined levels of performance described in section 113 of the Act, which at a minimum shall include— a. a description of the process for public comment under section 113(b)(3)(B) of Perkins V as part of the development of the State determined levels of performance under that section; b. an explanation for the State determined levels of performance; and c. a description of how the state determined levels of performance set by the eligible agency align with the levels, goals and objectives other Federal and State laws, (Section 122(d)(10) of Perkins V). d. As part of the procedures for determining State determined levels of performance, describe the process that will be used to establish a baseline for those levels.**

Focus groups were held with various stakeholder groups including CTE teachers, administrators, data professionals at the secondary and postsecondary levels and state staff to determine appropriate definitions as well as to discuss what data were available and could be gathered. Since many Perkins performance metrics have changed under this law, as well as that of concentrator definitions, Colorado does not necessarily have all of the data needed to recalculate historic student data based on new metric and concentrator definitions. Thus, we calculated three years of historic trends to reflect the new metrics as closely as possible to help guide where to set performance targets. Where applicable, Colorado’s ESSA plan was reviewed to ensure that secondary metrics are aligned with our SEA’s goals related to graduation rates and assessment. As we have not previously collected data on work-based learning at the state level, we consulted with other states who have relevant data to establish an informed starting point. As part of our



state’s strategic plan, Colorado’s goal has been set to increase work-based learning by 1% annually.

The public will be able to comment on the State determined levels of performance and other elements of the state plan during the following meeting dates and locations.

<b>Meeting Dates</b>	<b>Location</b>
October 28, 2019	Montrose
October 29, 2019	Fort Morgan
October 30, 2019	Denver
November 1, 2019	Virtual - WebEx

- 4. Provide a written response to the comments provided during the public comment period described in section 113(b)(3)(B) of the Act. (Section 113(b)(3)(B)(iii) of Perkins V). As part of the written response, include a description of any changes made to the State determined performance levels as a result of stakeholder feedback.***

Responses to public comments are provided in Appendix G of this State Plan.

- 5. Describe how the eligible agency will address disparities or gaps in performance as described in section 113(b)(3)(C)(ii)(II) of Perkins V in each of the plan years, and if no meaningful progress has been achieved prior to the third program year, a description of the additional actions the eligible agency will take to eliminate these disparities or gaps. (Section 122(d)(11) of Perkins V).***

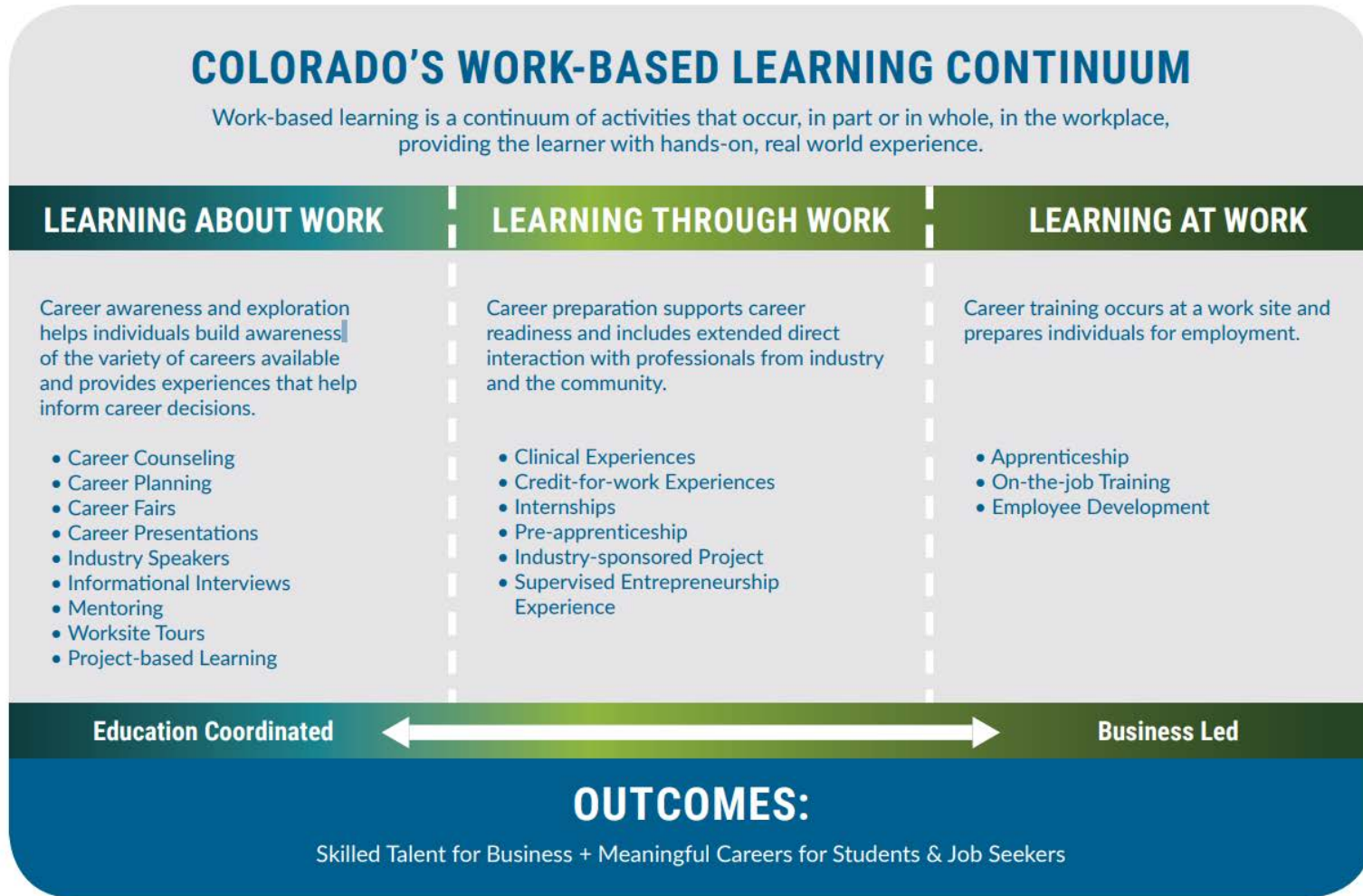
If an eligible recipient has gaps or deficiencies in performance and if no meaningful progress has been achieved prior to the third program year, CCCS will require that a percentage of local Perkins funds be used based on consultation with the state staff team visit. The state will meet with the local eligible agency and will review program progress and data to identify disparities or gaps in performance. If issues around either of these factors are identified, the LEA or institution of higher education will need to provide an action plan to CCCS within 30 days of the meeting identifying the disparities or gaps in performance and specific actions to be taken. CCCS will review the action plan and the parties will come to a final agreement on the action plan. Thirty percent of grant funds in the coming fiscal year must be spent on enacting the action plan submitted to CCCS. The action plan will be reviewed annually and will remain in place until the disparity or gaps in performance have been resolved. Action plans should reflect needs identified in the regional needs assessment process that are consistent with the requirements of the Perkins Act. If the denominator for a Special Population is greater than 30 students and the gap in

percentage of performance is greater than 30%, it will be considered to be a disparity and progress will need to be achieved to remedy the disparity. In instances of multiple areas of deficiency or disparity, CCCS will help the local eligible agency to prioritize areas of performance improvement and the approved action plan will serve as the guiding document.

## **Appendix**

- A. Colorado's Work-Based Learning Continuum
- B. [Colorado Career Cluster Model](#)
- C. Colorado Perkins Local Application
- D. Comprehensive Local Needs Assessment (CLNA)
  - 1. CLNA Handbook
  - 2. CLNA Worksheets
  - 3. CLNA Resource Guide
- E. 2019-2020 Secondary Performance Metric Definitions (Perkins FY 2020-2021)
- F. 2019-2020 Postsecondary Perkins Performance Metric Definitions (Perkins FY 2020-2021)
- G. Responses to Public Comments

**A. Colorado’s Work-Based Learning Continuum**



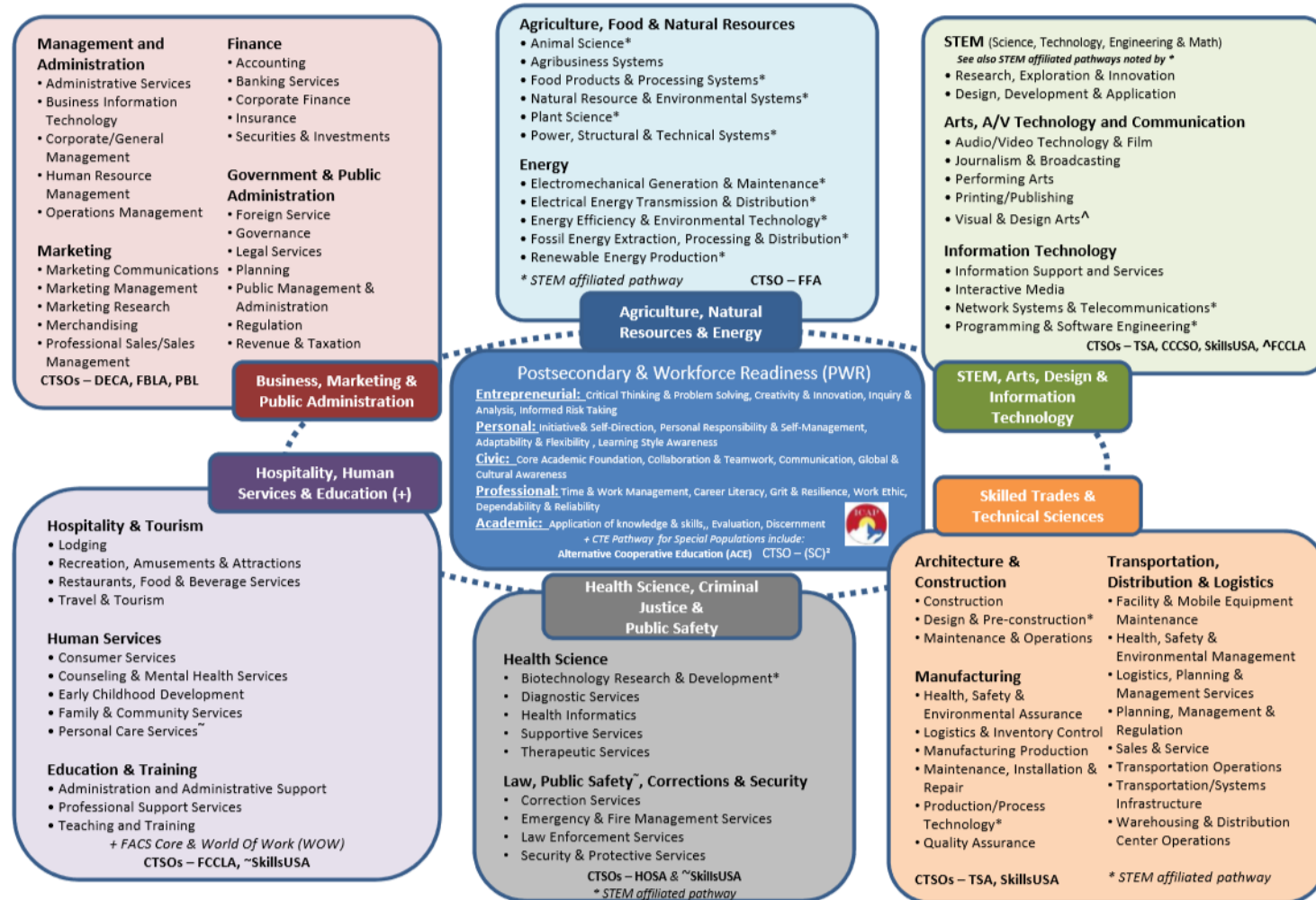
## Assessment Guide for Your Work-Based Learning Community

	<b>Exploring</b>	<b>Emerging</b>	<b>Demonstrating</b>	<b>Thriving</b>
Leadership	An individual or an entity is a champion of this effort	A leadership team has been established with representation from multiple partners	A leadership team meets regularly and committees are in place as needed for specific projects	A partner has devoted a full or partial FTE to manage the initiative and guide the work of the leadership team and committees
Needs Analysis	Labor market information and needs of businesses has not been analyzed or reviewed.	Labor market information and other data sources are identified and used to inform the direction of the initiative	Full analysis of data and needs has been conducted and the right solution has been picked for the identified problem	Data analysts are identified and work together across partners to regularly review relevant information
Asset Mapping	Community assets and programs are understood based only on past experiences	Assets and resources of engaged stakeholders are documented and used in decision making	Assets and resources of all community stakeholders are documented and used in decision making and strategic planning	Assets are documented and made public and updated on a regular basis
Stakeholders	At least two of the three key stakeholder groups are at the table and ready to engage in this project. The three stakeholder groups are Business, Education, and Workforce/Community	Roles of all partners are defined. Engagement opportunities exist and are known.	Partners from all three stakeholder groups actively engage in conversations and initiatives together. Work is aligned and duplication of services is not occurring.	Capacity building activities take place regularly, a governance structure is in place for decision making
Resources	Financial resources to support the work are unknown	Existing resources are known and utilized appropriately; funding may be redirected into the initiative from existing streams	Financial resources are contributed by multiple partners as they are available. A strategy is in place to coordinate funding opportunities when they arise	A sustainable business model is in place that supports a lead agency to drive this work forward on an ongoing basis
Communications	The champion communicates as needed with engaged stakeholders	Key messages are developed and a schedule is in place to engage with stakeholders	A communications lead is identified and develops messaging that informs stakeholders and expands the partnership	A strategic communications plan is in place that keeps all partners informed on a regular basis, as well as sharing stories to generate further involvement
Evaluation & Continuous Improvement	Process outcomes are defined and considered to be success	An overarching outcome has been identified and an agreed upon indicator is in place	Multiple outcomes are identified and indicators are tracked and reported regularly	Indicators are regularly reviewed and progress is reported publicly; surveys are conducted regularly to identify improvement opportunities

## B. Colorado Career Cluster Model



# Colorado Career Cluster Model

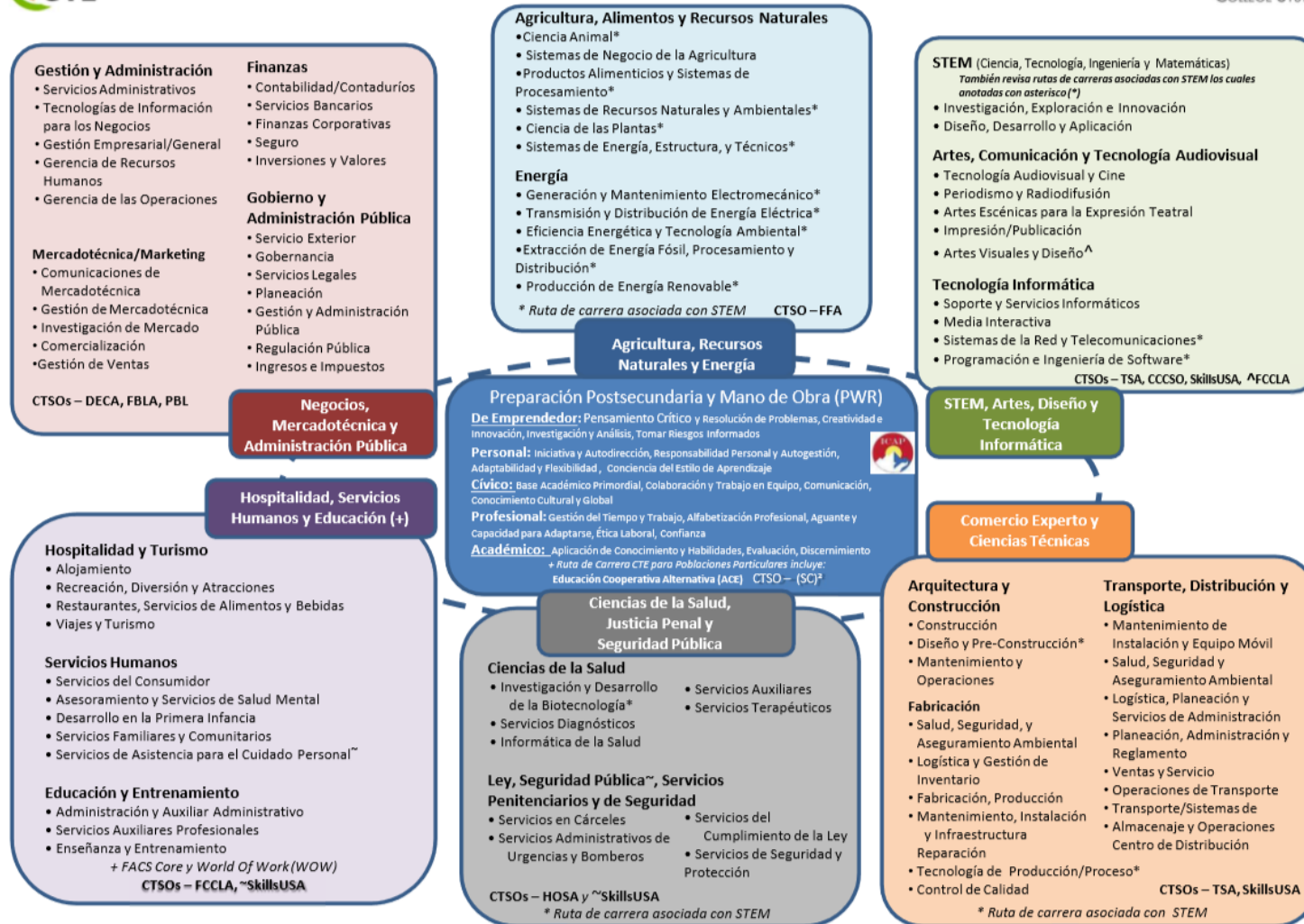


Updated June 2017- [www.coloradostateplan.com](http://www.coloradostateplan.com) + [www.cccs.edu](http://www.cccs.edu)

## B. Career Cluster Model – Spanish Version



# Modelo de Grupos de Carreras de Colorado



Updated June 2017- [www.coloradostateplan.com](http://www.coloradostateplan.com) + [www.cccs.edu](http://www.cccs.edu)

**C. Colorado Perkins Local Application – Coming Soon; currently in review by statewide work group**





# Regional Needs Assessment Handbook



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## Introduction

This handbook has been prepared to guide the Colorado CTE needs assessment process. The purpose for this process is grounded in the new vision for Colorado CTE.

***“Colorado Career & Technical Education (CTE) leverages workforce and education systems so that each learner has quality CTE experiences leading to lifelong career success.”***

The belief stated in this vision is the foundation of the needs assessment process. All Colorado learners deserve a quality CTE experience that leads to lifelong career success. Throughout this process, the emphasis must remain on how to create and sustain a CTE system that focuses on the success of each learner.

The needs assessment process is also required by Perkins V (The Strengthening Career and Technical Education (CTE) for the 21<sup>st</sup> Century Act). The law obligates applicants to conduct a local needs assessment and update it at least every two years.

Supplemental information for the needs assessment process are found in the *Colorado Needs Assessment Resource Guide*. The *Guide* also includes a glossary of the terms and a description of what the law says and what the law means to understand the requirements of Perkins V.

Specifically, the law states: *“To be eligible to receive financial assistance under this part, an eligible recipient shall— (A) conduct a comprehensive local needs assessment related to career and technical education and include the results of the needs assessment in the local application submitted under subsection (a); and (B) not less than once every 2 years, update such comprehensive local needs assessment.”* (Section 134(c))

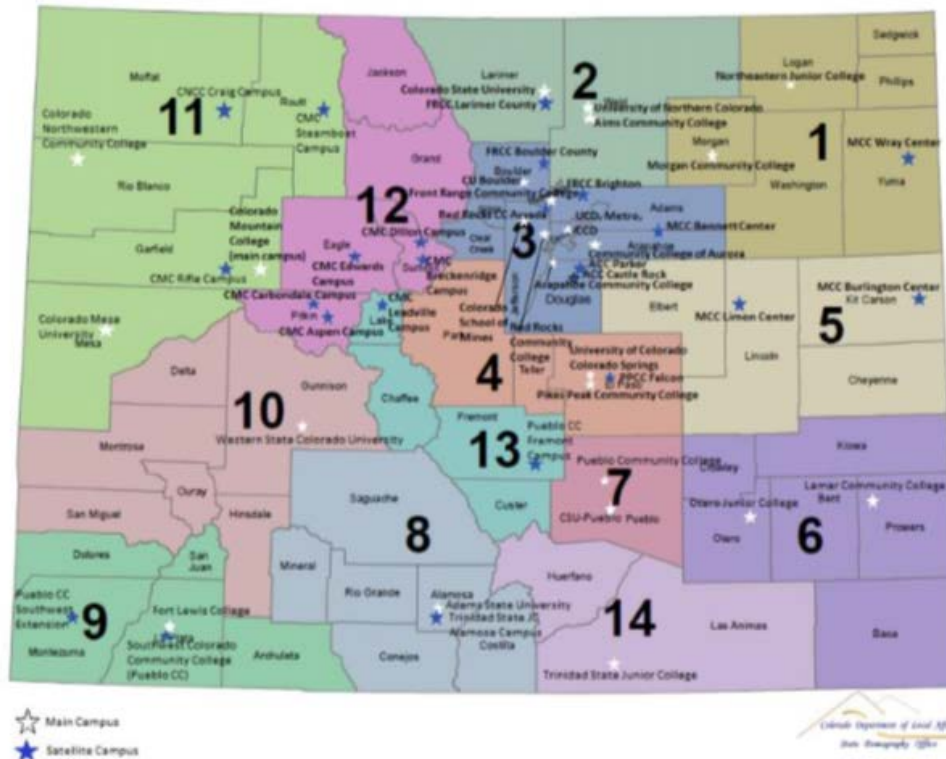
The regional needs assessment process has the potential to be a major driver of quality and equity in CTE. It is an opportunity to take an in-depth look at the entire CTE system in Colorado and identify areas where targeted improvements can lead to increased opportunities for student success. It also provides an opportunity to engage diverse stakeholders committed to the growth and improvement of Colorado CTE.

The needs assessment presents an unprecedented opportunity to:

- Implement the goals of the new Colorado CTE Strategic Plan;
- Create CTE programs and opportunities to ensure access and success for each learner that lead to high wage, high skill, and in-demand occupations;
- Ensure CTE programs of study are aligned to and validated by local workforce needs and economic priorities;
- Set strategic short- and long-term goals and priorities to ensure coordinated program review and improvement processes; and
- Regularly engage in conversation with stakeholders around the quality and impact of CTE programs and systems.

### Regional Approach to the Needs Assessment

Colorado will conduct this needs assessment on a regional level based on economic development regions.



The above map identifies the Colorado Economic Development Regions for the needs assessment. Where it makes sense, regions could certainly combine to create a larger region (i.e. Regions 1 & 5 might collaborate).

Each district and/or college in Colorado desiring to operate an approved CTE program is **required** to actively participate in the needs assessment process. At the local level, colleges, districts, and consortia will have local data and information to gather and bring to the larger regional process.

### **The Benefits of a Regional Approach to the Needs Assessment**

- The advantage of working with shared stakeholder groups including secondary and postsecondary faculty and administration, representatives of special populations, state or local workforce boards, parents and students, business and industry, Tribal organizations and government agencies representing a common region.
- Increases the focus on collaboration, including secondary/postsecondary alignment, program quality and alignment to labor market needs.
- Identifies similar needs and data to meet the needs within the economic region.
- A more efficient use of resources in preparing for and completing the comprehensive needs assessment.
- Focusing local, regional, and state-wide efforts on the implementation of the Colorado CTE Strategic Plan.

### **Resources from CCCS for Needs Assessments**

- CCCS will provide a standard template to be used across Colorado.
- The opportunity for facilitation teams upon request.
- Current and accurate economic and workforce data (i.e. anticipated growth in high wage, high skill, in-demand occupations) by region.
- The ability to request customized assistance to complete the assessment.

The Colorado comprehensive needs assessment is aligned to the goals and foundational elements of the Colorado CTE Strategic Plan. The Executive Summary of the Colorado CTE Strategic Plan is found in the *Colorado Needs Assessment Resource Guide*.

The needs assessment has seven required elements. Many of these elements are interwoven and insights gained in one part may be helpful in tackling another part.

### **Final Regional Needs Assessment Results**

The final product of Colorado's regional approach will be the completion of all parts of the Needs Assessment Results Document. This document will identify the significant priorities to improve the quality of Colorado CTE and for the use of Perkins funds in the local application

**This handbook** has been created with significant assistance from our national partners at Advance CTE and the Association for Career and Technical Education (ACTE). The content has been borrowed liberally from their guidance documents as well as the Nebraska CTE Comprehensive Local Needs Assessment and Louisiana Perkins V: Comprehensive Local Needs Assessment Guidebook.

## The Regional Needs Assessment Process:



### 1. Identify Convener

- Convener is selected to facilitate the needs assessment process at the regional level.
- Convener identifies representatives of local education partners (Perkins recipients school districts, consortia, and colleges)
- Convener provides guidance to local education partners on completing the local needs assessment worksheets. Convener works with local education partners to identify and engage regional stakeholders.

### 2. Local Education Partners Complete Local Needs Assessment Worksheets

- Local education partners complete needs assessment worksheets using local data and information.
- Convener monitors and assists local education partners in completing the local needs assessment worksheets.

### 3. Engage Stakeholders and Conduct Regional Meeting of Local Partners

- Convener hosts meeting of local education partners and regional stakeholders to complete regional needs assessment worksheets.
- Required stakeholders provide data and information for regional level needs assessment.
- Convener works with local education partners and stakeholders to summarize findings or cooperates with education partner(s) to summarize data and information.

### 4. Develop the Needs Assessment Results Document

- Findings summary is developed into the final regional Needs Assessment Results Document.
- All local education partners must sign off on the Needs Assessment Results Document.
- All parts of the Needs Assessment Results Document is submitted to CCCS along with regional worksheets.

### 5. Local Education Partners use Results

- Local education partners use results to guide improvement of CTE programs and programs of study.
- Local education partners use results to guide the development of their local Perkins application.

## Step 1 - Identify Convener

The regional approach will require considerable cooperation from each local district, consortia, and college. Each economic development region will need a convener (i.e. college, Board of Cooperative Education Services, district) who is willing to coordinate all education partner districts, consortia, and colleges in the region in the needs assessment process.

The convener may or may not be the preparer of the needs assessment results document on behalf of the region. If the convener is not going to prepare the results, the convener must identify an entity to complete the needs assessment results. CCCS is able to work with regions to identify a convener and/or entity to complete the needs assessment results as necessary.

Perkins funds may be used (subject to local policies and priorities) as long as it is in the Perkins plan. For example, to cover a substitute for key district/college personnel or travel to any regional meetings. Local grant funds could also be used to help provide a stipend for a regional needs assessment coordinator for this specific instance (i.e. since the duties are new and outside of anyone's current role.) For questions about funding possibilities, please contact the CCCS Perkins Plan Manager.

### **Convener Responsibilities:**

The convener will act as the facilitator of the needs assessment process. Specific responsibilities include:

- Identify an individual from each education partner to represent their respective district, consortia, or college.
- Distribute relevant communications and updates as needed.
- Coordinate all meetings at the regional level.
- Create a timeline to ensure that all deadlines are met.
- Work with representatives from the education partners to gather the needed data and information related to their institution and complete the local needs assessment worksheets.
- Work with education partners to identify required stakeholders to engage in the regional needs assessment process.
- Invite required stakeholders to participate in the regional needs assessment process.
- Complete the regional needs assessment worksheets.
- Summarize the data and information from the local and regional needs assessment worksheets.
- Prepare the final needs assessment results document or supervise the individual or entity who will complete the final document.

## Step 2 – Local Education Partners Complete Local Needs Assessment Worksheets

The convener must communicate with local education partners on completing the local needs assessment worksheets. The education partners must complete the local needs assessment worksheets and analyze the needed data and information prior to the regional meeting.

The worksheets found in the *Needs Assessment Local and Regional Worksheets* must be used to record the discussion and analysis based on the questions for each element. A worksheet is provided for each element of the needs assessment.

There are two parts to each worksheet:

1. **Questions to Consider** – This section contains questions to guide the discussion. Space is provided to collect information and notes for later use.
  - **Current State** – Use this section to describe the present state based on the review of data and other information. Document significant strengths and challenges as the CTE program is currently operating.
  - **Desired State** – Use this section to identify what the ideal state would be if all the challenges were addressed and the current strengths continue or increase. Be as specific as possible to address the question presented. It may be appropriate to write the desired state as goal statements. Provide enough detail to substantiate the goal.
  - **Evidence** – Source of the data or information to substantiate the statements in the current or desired state.
2. **Rating** – This section is to be completed at the end of the examination of the data and information and the discussion of the questions. This will help gauge the extent to which the particular element of the needs assessment is in place.
  - There is a section to record the strategies to address the challenges and strengths. Please list these strategies in priority order.



## Needs Assessment Elements

There are seven required elements of the needs assessment process. The elements are aligned to the Colorado CTE Strategic Plan goals and foundational elements. The goals and/or foundational elements are highlighted in each of the following element descriptors.

<p><b>Element 1</b> Career Advisement &amp; Development</p> <p><b>Goal 1:</b> Career Advisement &amp; Development</p>	<p><b>Element 2</b> Local Workforce Alignment</p> <p><b>Goal 3:</b> Partnerships <b>Goal 4:</b> Quality Programs</p>	<p><b>Element 3</b> Size, Scope, &amp; Quality &amp; Implementing CTE POS</p> <p><b>Goal 4:</b> Quality Programs</p>
<p><b>Element 4</b> Student Performance Data</p> <p><b>Goal 4:</b> Quality Programs <b>Foundational Element:</b> Equity, Access &amp; Inclusion</p>	<p><b>Element 5</b> Improving Access &amp; Equity</p> <p><b>Foundational Element:</b> Equity, Access &amp; Inclusion</p>	<p><b>Element 6</b> Recruitment, Retention, and Training of Faculty and Staff</p> <p><b>Goal 2:</b> Instructor Recruitment &amp; Retention</p>
<p><b>Element 7</b> Work-Based Learning</p> <p><b>Goal 5:</b> Work-based Learning</p>		

On the following pages, each element is described as it should be evaluated with the needs assessment worksheets on the local level. In addition, the following resources are provided:

- Suggested areas to review and materials needed
- Suggested stakeholders to engage
- Suggested strategies for consultation
- Worksheet questions to answer for this element

## Element 1 Career Advisement & Development

Each Colorado learner deserves the opportunity to explore career options and receive guidance in planning for their future careers. Career advisement and development should be a systemic process that starts with a broad understanding of what work is and what is required to be successful in a career. It should narrow as learners move through middle school, secondary, and postsecondary education.

This element provides the opportunity for evaluation of the total career advisement and development system in place. A systemic approach allows for programs, partners, and initiatives to develop and maintain an informed system for all learners.

This element aligns to the Colorado CTE Strategic Plan:

**Goal 1: Career Advisement & Development** – *Ensure each Colorado learner has access to ongoing career advisement and development.*

### Suggested Areas to Review and Materials Needed

- Access to current and projected future labor market needs and education requirements for these careers.
- Follow up data on both CTE and non-CTE students with emphasis on career success including special populations.
- Data on usage of career advisement materials and activities by all populations.
- School counseling/career advisement activities for each special population.
- Data on impact of work-based learning experiences on career development.
- Data on learner development of Postsecondary and Workforce Readiness (PWR) skills.
- Findings from surveys/focus groups with students, parents, and/or community representatives of special populations.
- Focus groups with postsecondary institutions, military, unions, apprenticeship programs and others involved in career development.
- Survey of secondary and postsecondary counselors and career advisement professionals to determine strategies that work, activities and materials needed, and ways to strengthen career advisement and development.

Suggested Stakeholders to Consult	Suggested Strategies for Consultation
<ul style="list-style-type: none"> <li>• Secondary and postsecondary teachers/faculty</li> <li>• Administrators, teachers, and faculty</li> <li>• School counselors and advisement professionals</li> <li>• Representatives of special populations</li> <li>• Local data staff</li> </ul> <p>Also</p> <ul style="list-style-type: none"> <li>• Employers, business and industry representatives willing to assist in career advisement</li> <li>• Career coaches</li> <li>• Parents</li> <li>• Students</li> </ul>	<p>Workgroup to examine data including educators, school counselors/advisement professionals, and representatives of special populations</p> <p>Focus groups, interviews, study circles and surveys with:</p> <ul style="list-style-type: none"> <li>○ Students and former students</li> <li>○ Parents</li> <li>○ CTSO advisors</li> <li>○ Representatives of special populations</li> <li>○ Business, industry, and community partners</li> <li>○ School counselors</li> <li>○ Secondary and postsecondary career advisement professionals</li> </ul>
Worksheet Questions to Answer for this Element	
<ol style="list-style-type: none"> <li>1. To what extent are CTE instructors and other faculty trained to be career coaches or have meaningful conversations with learners about their skill sets and career choices? For example, are they confident and competent?</li> <li>2. To what extent are all opportunities presented to learners to consider 2- and 4-year postsecondary education, technical colleges, apprenticeships, military, and direct employment?</li> <li>3. To what extent are CTE instructors collaborating with counseling/career advisement professionals?</li> </ol>	

A sample of the worksheet for this element is found on the next page. It can be accessed online at <http://coloradostateplan.com/administrator/perkins/perkins-forms-and-files/>.

**Local Needs Assessment Element 1 Worksheet: Career Advisement & Development**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. To what extent are CTE instructors and other faculty trained to be career coaches or have meaningful conversations with learners about their skill sets and career choices? For example, are they confident and competent?	<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
2. To what extent are all opportunities presented to learners to consider 2- and 4-year postsecondary education, technical colleges, apprenticeships, military, and direct employment?	<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
3. To what extent are CTE instructors collaborating with counseling/career advisement professionals?	<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>

Example

<b>Element 1: Career Advisement &amp; Development</b>	<b>Strategies for Element 1 in Priority Order</b>
<b>Ratings:</b> 1 Significant gaps and/or multiple gaps exist 2 Some gaps exist and/or we do not have a concrete plan to address them 3 Very few gaps exist, and we have processes in place to close the remaining gaps 4 No gaps exist	
<b>Rating (circle one)</b>	<b>1 2 3 4</b>

## Element 2 Evaluation of Workforce Alignment

Quality CTE programs are aligned to the needs of the future workforce. This element of the needs assessment examines CTE program alignment with local, state, regional, or Tribal in-demand industry sectors identified by the state or local workforce development board or local workforce needs and economic priorities.

Current labor market information about occupations, training requirements, and wages is crucial in order to make important decisions about career goals. Labor market information can help provide reasonable expectations of job openings and wages when entering work.

It is important to examine multiple sources of data. Great sources of information are:

- LMI data sheets provided in the *Local and Regional Needs Assessment Worksheets* or *Colorado LMI Gateway*
- Discussion with local business and industry on workforce needs
- Economic development plans for businesses the region is trying to attract or expand
- Local Workforce Boards
- Information from local Chambers of Commerce
- Information from active sector partnerships

This element aligns to the Colorado CTE Strategic Plan:

**Goal 3: Partnerships** - *Prepare Colorado's future workforce through transformational partnerships*

**Goal 4: Quality Programs** - *Elevate the quality of CTE programs to support each learner's skill development and meet industry needs.*

### Suggested Areas to Review and Materials Needed

- State and local labor market information (LMI) including current and projected employment.
- Follow-up data on program completers to determine entry and success in their career areas.

### Suggested Stakeholders to Consult

- Administrators, teachers, and faculty
- School counselors and advisement professionals
- Former students
- Representatives of special populations
- Local data staff

### Suggested Strategies for Consultation

- Workgroup to examine data including educators, school counselors/advisement personnel, and workforce development staff
- Engagement of advisory council for input into workforce alignment
- Focus groups, interviews, study circle, surveys with:
  - Students and former students
  - Local agencies involved in workforce initiatives

### Worksheet Questions to Answer for this Element

1. To what extent are we offering programs of study that are preparing learners for current and future workforce and economic needs?
2. Evaluate the processes in place for reviewing workforce and economic data to determine effectiveness and impact of program offerings on a regular basis.

**Element 3 Evaluation of Program Quality including Size, Scope & Quality and Progress toward Implementing CTE Programs of Study**

Providing a quality CTE experience should be the goal of every Colorado CTE program. This element of this needs assessment examines CTE program quality by describing how local CTE programs are sufficient in size, scope, and quality to meet the needs of all students and progress toward implementing quality programs of study.

Additional resources for program quality evaluation are found in *Colorado Needs Assessment Resource Guide*.

This element aligns to the Colorado CTE Strategic Plan:

**Goal 4: Quality Programs** - *Elevate the quality of CTE programs to support each learner's skill development and meet industry needs.*

**Definition of a Programs of Study**

**A Program of Study is** a coordinated, non-duplicative sequence of academic and technical content at the secondary and postsecondary level that:

- Incorporates challenging State academic standards;
- Addresses both academic and technical knowledge and skills, including employability (career readiness) skills;
- Progresses in specificity (beginning with all aspects of an industry or career cluster and leading to more occupation-specific instruction);
- Has multiple entry and exit points that incorporates credentialing; and
- Culminates in the attainment of a recognized postsecondary credential

**Proposed Definition of Size, Scope and Quality**

Colorado’s definitions of size, scope and quality are important to ensure funds are used to drive quality, equitable, and impactful programs. Colorado’s proposed definitions are:

**Sufficient Program Length** – Each program Completer definitions determine the minimum and maximum length of each program.

**For secondary programs**, the minimum completion requirement will be equivalent to two year-long courses (i.e. two Carnegie Units of instruction), an optimum program length will be three years of Carnegie Units, and a program may be longer. A program completer should be ready for entry-level employment or ready for the next level of advanced training as verified by the Technical Advisory Committee. A program concentrator will be equivalent to two courses, with a course being defined as equivalent to one full school year of credit in the specific program pathway (for one Carnegie Unit). Due to the variety of school schedules used across the state, the contact hours for this minimum will be at least 120 hours.

A course may count toward completion of multiple pathways and be appropriate on multiple program approvals.

**For postsecondary programs**, a postsecondary certificate program (with occupational field of study specified) is an organized program of study intended to prepare students to enter skilled and/or paraprofessional occupations or to upgrade or stabilize their employment. This program is not intended for transfer to baccalaureate degree programs but may transfer to Associate Degree Programs.

An initial certificate in a program area needs to include the skills, knowledge and competencies required for entry-level employment. Other certificates in the same program need to advance that skill level.

In addition, to be of sufficient size and scope, a certificate program must at a minimum, consist of:

**Option #1** - Two CTE courses\*; or

**Option #2** - One, five credit hour CTE course\* \*as determined by CCCNS Course approval process

Any certificate of substantial length i.e. 45 or more credits must have an appropriate general education component. (Source: Higher Learning Commission) Area Technical Colleges are exempt from this requirement. A concentrator is a student who has completed a minimum of 12 credits in the CTE program or who has completed the entire CTE program if it is 12 or fewer credits.

#### **Sequence of courses**

Each CTE program approved at the secondary or postsecondary level will be comprised of courses that include integrated academic, technical and employability (PWR) skills and progress in a sequence toward at least entry level employment or advanced training.

#### **Provide Work-Based Learning Experiences**

Another critical component of a CTE program is that it provides appropriate work-based learning. Work-based learning provides hands-on or realistic experiences for secondary learners that relate to the students' CTE Program of Study.

Work-based learning options are required for secondary programs. Career exploration experiences are required for middle school programs and work-based learning is strongly encouraged in postsecondary programs.

Work-based learning at the secondary level are defined by the continuum from Colorado Workforce Development Council Talent Found (Appendix as Work-based learning is a continuum of activities that occur, in part or in whole in the workplace providing the learner with hands-on real-world experiences.

#### **Leadership development**

CTE programs also include embedded leadership development opportunities for learners, including through participation at the secondary level in CTE Student Organizations (CTSO). At both the secondary and postsecondary levels, this also includes embedded employability skills that help ensure postsecondary and workforce readiness skills.

### **Industry Partnership**

CTE programs should be designed to meet industry need. To help ensure this is the case, an approved program must have active partnerships and engagement with business and industry. One method of demonstrating compliance with this requirement is a functioning and active advisory committee for each program comprised of at least 51% business and industry members. Advisory committees should meet a minimum of two times per year to provide feedback and input in the CTE program. Some benefits of active advisory committees is that they provide a mechanism to help ensure CTE programs are teaching current and emerging technical skills using proper equipment and technology, and that CTE staff are aware of trends in industry that should be incorporated into the program.

### **Equal Access and Appropriate Facilities**

While equity, access, and inclusion are expected to be embedded in each component of a CTE program of sufficient size, scope, and quality, it is expected that CTE programs will ensure at a local level that learners are aware of the options and benefits of participating in CTE and that each learner has access to do so. This can only happen if CTE programs occur in spaces that are appropriate to the needs of the program and the number of learners served. This includes ensuring sufficient equipment, instruction, and safety protocols are in place.

### **Periodic Evaluation**

Periodic self-evaluation is strongly encouraged for all CTE programs. Additionally, all Colorado CTE programs will be reviewed for renewal purposes every four years at a minimum. This evaluation will occur through the program approval process and will use data-driven practices as well as a technical assistance and coaching model to ensure quality CTE programs for our learners and industry partners.

### **Completing the evaluation of program quality including size, scope & quality and progress toward implementing CTE programs of study**

Analyzing program quality including size, scope & quality and progress toward implementing CTE programs of study will be addressed by reviewing the data from each education partner at the local level using the local needs assessment worksheets. The following information will help the education partner complete the worksheets.



Suggested Areas to Review and Materials Needed	
<p><b>Size (capacity focus)</b></p> <ul style="list-style-type: none"> <li>• Total number of programs/programs of study and number of courses within each</li> <li>• CTE participant and concentrator enrollment for the past three years, aggregate and disaggregated</li> <li>• Capacity of each program for the past three years</li> <li>• Number of students applying for the program in the last three years, if applicable</li> <li>• Number of students on waiting lists if applicable</li> </ul>	<p><b>Scope (curricular focus)</b></p> <ul style="list-style-type: none"> <li>• Documentation of CTE Programs of Study course sequences from secondary to postsecondary including aligned curriculum</li> <li>• Credit transfer agreements for CTE programs.</li> <li>• Data on student retention and transition from secondary to postsecondary within the CTE program of study</li> <li>• Description of dual/concurrent enrollment courses and data on student participation and success</li> <li>• Data on student credential attainment in each program disaggregated by student demographic and value of credential</li> <li>• Curriculum standards showing depth and breadth of program and alignment to workforce and economic needs</li> <li>• Opportunities for expanded learning within and across CTE programs of study</li> </ul>
<p><b>Quality (outcome focus)</b></p> <ul style="list-style-type: none"> <li>• Curriculum standards and frameworks showing alignment to industry needs.</li> <li>• Assessments leading to credentials of value</li> <li>• Safety requirements</li> <li>• Work-based learning procedures</li> <li>• Career and Technical Student Organizations (CTSO) activities and alignment to curriculum</li> <li>• Data collection mechanisms</li> <li>• Program improvement/assessment processes</li> <li>• Placement in employment education, or military following program participation (if applicable)</li> </ul>	
Suggested Stakeholders to Consult	Suggested Strategies for Consultation
<ul style="list-style-type: none"> <li>• Administrators, teachers, and faculty</li> <li>• Representatives of special populations</li> <li>• Parents and students</li> <li>• School counselors and advisory professionals</li> <li>• Local data staff</li> </ul>	<ul style="list-style-type: none"> <li>• Workgroup to examine data including representatives of educators, school counselors/career advisory professionals, special populations, and employers</li> <li>• Focus groups, interview, or survey of:             <ul style="list-style-type: none"> <li>○ Parents and students</li> <li>○ Employers</li> <li>○ School counseling staff and career advisory professionals</li> </ul> </li> </ul>

**Worksheet Questions to Answer for this Element**

1. How do programs maintain conversations with secondary, postsecondary, and business/industry representatives so that a robust and up-to-date skill set is developed in each program?
2. Which programs have current industry standard equipment, appropriate classroom and laboratory space, and quality instructional materials?
3. Which programs of study incorporate relevant academic, technical, and workforce, postsecondary readiness (PWR) skills at every learner level? (Including concurrent enrollment opportunities)

## Element 4 Evaluation of Student Performance Data

Quality CTE is quality education that contributes to both the technical and academic preparation of all learners. Perkins V requires the needs assessment to include an evaluation of student performance including special populations and each subgroup identified in the law. The needs assessment must contain an evaluation of CTE concentrators' performance on the core performance indicators.

This element aligns to the following goals and foundational elements of the Colorado CTE Strategic Plan:

**Goal 4: Quality Programs** - Elevate the quality of CTE programs to support each learner's skill development and meet industry needs.

**Foundational Element: Equity & Access** - Create opportunities for each learner to access quality CTE programs and distribution of CTE programs throughout the state.

**Foundational Element: Inclusivity** - Provide each learner with the opportunity to participate in a CTE program and decrease the gaps of CTE participation for target populations, non-traditional occupations, and geographic areas.

This element will be addressed by reviewing the data from each education partner at the local level using the local needs assessment worksheets. The following information will help the education partner complete the worksheets.

### Suggested Areas to Review and Materials Needed

- Review Perkins performance data for the past three years disaggregated by CTE program area and subgroups including:
  - Gender
  - Race and ethnicity
  - Migrant status
  - Individuals with disabilities
  - Individuals from economically disadvantaged families including low-income youth and adults
  - Individuals preparing for nontraditional fields
  - Single parents including single pregnant women
  - Out of work individuals
  - English learners
  - Homeless individuals
  - Youth who are in or who have aged out of the foster care system
  - Youth with a parent who is on active duty military
- Strategies utilized to address performance gaps for specific subgroups along with outcomes for the strategies attempted.

Suggested Stakeholders to Consult	Available Resources
<ul style="list-style-type: none"> <li>• Administrators</li> <li>• Secondary teachers</li> <li>• Postsecondary faculty</li> <li>• Academic and career advising professionals</li> <li>• Tribal organizations and representatives</li> <li>• Corrections education staff</li> <li>• Representatives of special populations</li> <li>• Local data staff</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="https://cte.cccs.edu/perkins/">https://cte.cccs.edu/perkins/</a> (logging in to Perkins site provides unsuppressed data)</li> <li>• <a href="https://ctep.cccs.edu/energizer/reports/report_list.jsp">https://ctep.cccs.edu/energizer/reports/report_list.jsp</a> (logging into program approval provides unsuppressed data).</li> <li>• General K12 data <a href="https://www.cde.state.co.us/schoolview">https://www.cde.state.co.us/schoolview</a></li> <li>• General postsecondary data <a href="https://higherred.colorado.gov/Data/Search.aspx">https://higherred.colorado.gov/Data/Search.aspx</a></li> </ul>
Suggested Strategies for Consultation	
<ul style="list-style-type: none"> <li>• Establish a work group that includes educators, counseling professionals, data stewards, and representatives of special populations to examine data and identify gaps or areas of concern.</li> <li>• Assemble educator groups by CTE career field or cluster to examine data in their specific area, review board policies, processes for developing student schedules, and graduation guidelines for systemic barriers to CTE enrollment by special populations.</li> </ul>	
Worksheet Questions to Answer for this Element	
<ol style="list-style-type: none"> <li>1. Where do the biggest gaps in Perkins performance indicators exist between subgroups of students and program areas?</li> </ol>	

## Element 5 Progress Toward Improving Equity and Access

Equity, access, and inclusivity are foundational to meeting the needs of all students in quality CTE. This element requires education partners to assess progress toward providing equitable access to all CTE programs. There should also be an examination of any barriers (real or perceived) that may prevent members of any special populations from entering and thriving in CTE programs. Additional materials on equity and access are found in the *Regional Needs Assessment Resource Guide*.

The term “special populations” means-

- Individuals with disabilities;
- Individuals from economically disadvantaged families, including low income youth and adults;
- Individuals preparing for non-traditional fields;
- Single parents, including single pregnant women;
- Out-of-work-individuals;
- English learners;
- Homeless individuals described in section 725 of the McKinney-Vento Act;
- Youth who are in, or have aged out of, the foster care system;
- Youth with a parent who is:
  - A member of the armed services
  - Is on active duty status

This element aligns to the Colorado CTE Strategic Plan:

**Foundational Element: Equity & Access** - Create opportunities for each learner to access quality CTE programs and distribution of CTE programs throughout the state.

**Foundational Element: Inclusivity** - Provide each learner with the opportunity to participate in a CTE program and decrease the gaps of CTE participation for target populations, non-traditional occupations, and geographic areas.

### Suggested Areas to Review and Materials Needed

- School counseling and recruitment activities
- Program promotional materials
- Processes for communicating and providing accommodations, modifications, and supportive services for all students, including special populations
- Procedures for workplace experiences for special population students
- Information on accelerated credit and credentials available for special populations
- Data on CTE and CTSO participation and performance by each career area and each special population
- Findings from the root causes and strategies analysis from the student performance element (Element 1)
- Findings from surveys/focus groups with students, parents, and/or community representatives of special populations

Suggested Stakeholders to Consult	Suggested Strategies for Consultation
<ul style="list-style-type: none"> <li>• Secondary and postsecondary teachers/faculty and administrators</li> <li>• School counselors and advisement professionals</li> <li>• Representatives of special populations</li> <li>• Local data staff</li> </ul>	<ul style="list-style-type: none"> <li>• Workgroup to examine data including educators, school counselors/advisement professionals, and representatives of special populations</li> <li>• Focus groups, interviews, study circles and surveys with:               <ul style="list-style-type: none"> <li>○ Students and former students</li> <li>○ Parents</li> <li>○ CTSO advisors</li> <li>○ Representatives of special populations</li> <li>○ Business, industry, and community partners</li> </ul> </li> </ul>
Worksheet Questions to Answer for this Element	
<ol style="list-style-type: none"> <li>1. Which students identified as special population groups are under-represented or over-represented in CTE programs overall? In which program area?</li> <li>2. What barriers currently exist that prevent each special population group from participating in your programs?</li> <li>3. How can cultural elements such as racial, ethnic, socio-economic, or geographic elements be considered and addressed when seeking out and working with learners and their families?</li> <li>4. Are there new programs that need to be developed to ensure access in our region?</li> </ol>	

## Element 6 Recruitment, Retention, and Training of CTE Educators

This element of the needs assessment assesses the educator workforce in your programs. This is not just about teachers, instructors, and faculty, but also includes specialized instructional support personnel, paraprofessionals, and school counselors and advisement professionals.

An important part of this assessment asks education partners to look at the diversity of these professionals and how closely they match the diversity of the education system in your local or regional community. It also looks at efforts to “grow your own” by conducting activities to encourage students to pursue careers as CTE educators.

This element aligns to the Colorado CTE Strategic Plan:

**Goal 2: Instructor Recruitment & Retention** - *Develop and ensure a viable pipeline of CTE instructors to fill the educator position at the middle school, secondary, and postsecondary levels.*

### Suggested Areas to Review and Materials Needed

- Data on faculty, staff, administrator, and school counselor preparation credentials, salaries, benefits, and demographics
- Student demographic data
- Description of recruitment process
- Description of retention efforts
- Description of professional development, mentoring and externships opportunities
- Data on educator participation in professional development, mentoring, and externships
- Survey or focus group results conducted with educators regarding needs and preferences
- Trend data on CTE educator hiring and retention in terms of CTE areas and demographics (at least past 5-10 years)
- Trend data on educator and staff retention in terms of CTE areas and demographics (at least 5-10 years)

### Suggested Stakeholders to Consult

- All stakeholders required by law, particularly:
- Secondary and postsecondary teachers/faculty
  - Human Resource department members
  - Administrators, teachers, and faculty
  - School counselors and advisement professionals
  - Representatives of special populations
  - Local data staff

### Suggested Strategies for Consultation

- Workgroup to examine data including educators, school counselors/advisement professionals, and human resources staff
- Focus groups, interviews, study circles and surveys with:
  - Veteran teachers and Human Resources staff
  - Developing teachers
  - Individuals charged with selecting, designing, and implementing professional development

**Worksheet Questions to Answer for this Element**

1. What processes are in place to recruit new CTE educators? For example, what is the process to develop or recruit CTE instructors from existing staff/students?
2. What strategies from the Colorado CTE Strategic Plan are you using to retain CTE educators?
3. What strategies are in place to utilize instructors/educators across the region? For example, to what extent do districts share instructors to create a full-time position, where applicable?



## Element 7 Work-Based Learning

This element focused on the status of providing meaningful work-based learning experiences for all students. Work-based learning is an educational strategy that provides students a setting where they can enhance their learning, explore career options, and demonstrate their academic, technical, and career readiness skills in authentic work settings.

Work-based learning experiences are not extra-curricular but rather expanded learning opportunities central to the student's personal and professional development. These experiences must be integrated into the curricular offerings and assessed accordingly.

This element aligns to the Colorado CTE Strategic Plan:

**Goal 5: Work-based Learning** – *Ensure access to meaningful work-based learning opportunities for each CTE learner.*

The Work-Based Learning Continuum is found *Regional Needs Assessment Resource Guide*.

### Suggested Areas to Review and Materials Needed

- Data on work-based learning programs and student participation
- Data on satisfaction of work-based learning students and employers of work-based learning students
- Work-based learning promotional materials
- Partnerships with Vocational Rehabilitation and Special Education to provide work-based learning
- Instruction PWR skills for all students to be prepared for work-based learning experiences
- Materials for engaging employers and appropriately supervise work-based learning students
- Processes for recruiting, communicating and providing accommodations, modifications, and supportive services for special populations
- Data on work-based learning participation and performance by each career area and each special population
- Findings from surveys/focus groups with students, parents, and employers providing work-based learning experiences

Suggested Stakeholders to Consult	Suggested Strategies for Consultation
<ul style="list-style-type: none"> <li>• Secondary and postsecondary teachers/faculty</li> <li>• Administrators, teachers, and faculty</li> <li>• School counselors and advisement professionals</li> <li>• Representatives of special populations</li> </ul> <p>Also:</p> <ul style="list-style-type: none"> <li>• Local data staff</li> <li>• Employers</li> <li>• Chambers of Commerce</li> <li>• Industry Councils</li> <li>• Students and Parents</li> </ul>	<ul style="list-style-type: none"> <li>• Workgroup to examine work-based learning data including educators, school counselors/advisement professionals, and representatives of special populations</li> <li>• Focus groups, interviews, study circles with:               <ul style="list-style-type: none"> <li>○ Students and former students</li> <li>○ Parents Employers participating in work-based learning</li> <li>○ Representatives of special populations</li> <li>○ Vocational Rehabilitation and Special Education providers</li> <li>○ Chambers of Commerce</li> <li>○ Business, industry, and community partners</li> </ul> </li> </ul>

**Worksheet Questions to Answer for this Element**

1. How successful are current work-based learning experiences in enhancing technical and professional, workforce readiness (PWR) skills for all learners?
2. What strategies are used to recruit and retain employers to participate in work-based learning programs? What should be added?
3. How are you evaluating employer satisfaction with the learners they supervise and the quality of the work-based learning experiences?
4. How are school/campus-based enterprises used as a vehicle to provide work-based learning experiences?
5. To what extent are work-based learning experiences intentionally connected to classroom instruction and activities and the student's career plan?

### Step 3 – Conduct Regional Meeting of Local Partners and Stakeholders

The Convener is responsible for organizing the regional meeting to complete the needs assessment process. Each local education partner must bring the completed local needs assessment worksheets with the prioritized strategies for each element.

During the regional meeting, the strategies will be discussed and aggregated on the regional level. A final report will be produced based on the discussions at the regional meeting.

#### Meeting Facilitation

CCCS will provide facilitation for the regional meeting.

#### Who should attend?

Each local education partner must be represented. The representatives must bring the completed local education worksheets (one for each participant from the local partner). The meeting will also engage regionally shared stakeholders such as workforce partners as required by Perkins V.

#### Perkins V Required Stakeholders

The strength of the needs assessment process is enhanced with input from a diverse representation of stakeholders. The regional approach allows stakeholders to become engaged at the regional level rather than at each education partner level.

Perkins V requires stakeholders to be engaged in the needs assessment process. Remember that individuals may represent more than one stakeholder group. For example, parents may also be representatives of business or special populations.

Engaging stakeholders may be accomplished in a variety of ways. The *Regional Needs Assessment Resource Guide* contains a helpful resource with this process. In addition to large group input sessions, this *Guide* describes different tools to use.

#### Required Stakeholders (Sec 134(d) of Perkins V)

- Representatives of CTE programs in a local or educational service agency, including:
  - teachers
  - career guidance and academic counselors
  - principals and other school leaders
  - administrators
  - specialized instructional support personnel and paraprofessionals
- Representatives of CTE programs at the postsecondary educational institutions, including faculty and administrators
- Representatives of state board or local workforce development boards, regional economic development organizations, and local or regional business and industry
- Parents and students
- Representatives of special populations
- Representatives of regional or local agencies serving out-of-school youth, homeless children and youth, and at-risk youth
- Representatives of Indian Tribes and Tribal Organizations in the State, where applicable
- Any other stakeholder required by the state, region, or local agencies

### Proposed Agenda

- Welcome and Introductions
- Review of the Colorado CTE Strategic Plan
- Discussion of local strategies for each element
- Create summary of regional strategies to address identified needs of the element
- Table groups share strategies from local worksheets and prioritize for regional level
- Finalization of strategies for each needs assessment element
- Agreement reached on strategies for Regional Needs Assessment Results Document
- Discussion of next steps to ensure the project is completed in the required timeframe

### Summarize Findings at Regional Level

Each local education partner will bring their completed local needs assessment worksheets. The worksheets will have the prioritized strategies for each element of the needs assessment. During the regional meeting, local education partners and required stakeholders will work together to summarize the strategies for each element and establish the priority strategies for the region.

The process of aggregating the strategies from the local level must involve meaningful discussions. A suggested approach is as follows:

- Have participants sit at round tables.
- Begin with the entire group working on Element 1.
- Have each local partner share the information on their worksheet for Element 1.
- On a flip chart, capture the prioritized strategies from each of the local education partner worksheets for Element 1.
- Have the table group vote to put the strategies in priority order.
- Conduct a gallery walk to have all participants review the flip charts. Have participants vote on the strategies they believe are most impactful.
- Capture the strategies with the highest votes.
- Repeat the process with the other elements. It may be advantageous to have different tables work on different elements at the same time.
- At the end of work on all elements, post the results and have a gallery walk, then proceed to a discussion about adopting the final strategies for the region.

### Suggested resources needed for regional meeting:

Name Tents    Markers    Flip Charts    Sticky Notes    Pens/Paper  
 Projector    Screen    Dots for voting    Round tables for discussion  
 Band width for multiple computer use

### Other Materials

- Demographic capture card to identify stakeholders present at the regional meeting and how they were engaged.
- Individual note cards for capturing thoughts during the table conversations.

### Facilitation Suggestions

Using multiple facilitation techniques will assist in getting to the strongest possible finished product. Here are some techniques that may be helpful.

- Decide whether individuals from the same local education partner should sit at the same table or not.
- Have capture cards at the table for writing down ideas or thoughts. This is particularly useful for individuals who are not comfortable or confident enough to speak publicly.
- Use the Pair-Share technique. Have participants talk to the person next to them and have each share their thoughts and ideas. Then move to a group discussion at the table followed by a share out from each table.
- Try the Gallery Walk. After capturing ideas on flip charts posted on the wall, have the group walk around the room and review each chart. Either manage the walk by allowing a certain amount of time at each chart or let the group move at their pleasure.
- Use dots for voting. After having numerous ideas posted on flip charts around the room, have everyone vote for their top three or five. Clarify the rules to make clear if individual can cast more than one vote (one dot) for a single idea.
- Move people around during the day. Don't let the same individuals sit at the same table all day. This can be done by rearranging the name tents during a break or simply having everyone find a new table.
- Use the thumb to vote. When asking for a vote, have participants use their thumbs to cast a thumbs up, thumbs sideways or thumbs down to vote.
- Use a quiet signal. When you need to get the attention of the group, use a unique sound into the microphone. Other techniques are putting one hand up in the air, clapping, or tap your neighbor.
- Manage time by using a projector countdown, announcing time frames, or posting how much time is left by 5-minute increments at the front of the room.
- Managing difficult participants:
  - Late Comer
    - Start on time to respect the individuals who did arrive on time.
    - Reward arriving on time with a door prize that only those who were on time are eligible to win.
    - Avoid making negative comments. When individuals arrive late, simply keep on moving with the program. Don't call attention to them.
    - Shut the door when the break is over. Keeping the door open is an invitation to wander in at their convenience.
  - The Preoccupied
    - Ask participants to put their phones on vibrate to avoid distracting the group.
    - Make break time precise for cell phone use.
    - Use team competitions to engage participants.
    - Use pairs or small group discussions to engage participants.
  - The Introvert
    - Use small group projects and discussions.

- Use written responses where possible.
- Provide incentives. Give chances to win a door prize based on ideas presented.
- Allow participants to be comfortable, don't intimidate participants into speaking. Give them the opportunity, but don't force.
- The Domineering
  - Use small group work when possible.
  - Rotate group leadership to take the person out of the lead role.
  - Use physical proximity.
  - Rotate group members.
  - Directly question other participants.
  - Make and break eye contact.
  - Deny acknowledgement.
  - Private discussion with the participant.

#### **Step 4 - Develop the Needs Assessment Results Document**


The final product of this needs assessment process will be the Needs Assessment Results Document. This may be completed by the Convener after the regional meeting to summarize the prioritized strategies and the discussions. All three parts of the Needs Assessment Results Document must be completed.

The Needs Assessment Results will provide meaningful input and direction for the improvement of Colorado's CTE system. It also provides the priorities to be addressed in the local application for Perkins funds.


The worksheets from the education partners must be submitted to the convener to assist with the development of the final results document. The regional worksheets and the Needs Assessment Results Document along with the Needs Assessment Required Stakeholder Verification worksheet and Education Partner Signature Page must be submitted to CCCS. The convener must ensure all education partners have signed off on the final document prior to submission.

#### **Step 5 – Local Education Partners use Regional Needs Assessment Results Document to Improve the Quality of CTE and to Prepare Perkins Application**

The Needs Assessment Results Document must be signed off on by all local education partners. Specifically, this signature should be from each entity's primary Perkins contact. This document should be used to establish an action plan by each local education partner to work toward the improvement of CTE. It will be the guiding document for the preparation of the local application for Perkins funds.



COLORADO CAREER & TECHNICAL EDUCATION



# Needs Assessment Local and Regional Worksheets

## Introduction

The following worksheets are to be used in concert with the Colorado Needs Assessment Handbook. The worksheets help identify potential partners and focus the discussion of the analysis of data and other evidence collected for each of the elements.

These worksheets will be available to complete on-line at <http://coloradostateplan.com/administrator/perkins/perkins-forms-and-files/>.

### Worksheets include:

**Potential Partner Worksheet** – used to identify individuals who may represent the required stakeholders to engage in the comprehensive needs assessment process.

**Local Needs Assessment Worksheets** – A worksheet is provided for each of the elements to summarize the findings of the assessment process. These worksheets should be completed by each local partner and either provided to the convener in advance or brought to the regional meeting.

**Regional Needs Assessment Worksheets** – A worksheet is provided for each of the elements to summarize the findings of the assessment process. These worksheets will be completed at the regional meeting. The Regional Needs Assessment Worksheets must be submitted to CCCS as documentation of the comprehensive needs assessment process.

**Needs Assessment Results Document** – This document summarizes the priorities established as a result of the comprehensive needs assessment process. This should be completed at the regional level. This worksheet must be submitted as documentation of the comprehensive needs assessment process.

**Needs Assessment Results Document Signature Page** – This page must be signed by each local education partner and the convener of the regional needs assessment process.

**Required Stakeholder Documentation** – This form must be completed to verify that all of the required stakeholders were engaged in the needs assessment process.





### Potential Stakeholder Worksheet

Use this template to identify potential stakeholders to assist in the needs assessment process.

Role	Name	Organization	Email/Contact Info
Secondary CTE Faculty			
Secondary Career Counselors and Academic Counselors			
Secondary Administrators			
Secondary Instructional Support, Paraprofessionals			
Postsecondary CTE Faculty			
Postsecondary Administrators			

Role	Name	Organization	Email/Contact Info
Postsecondary Career Counseling and Advising Professionals			
Representatives of Special Populations <i>Gender, race, ethnicity, migrant status, disability, economically disadvantaged, nontraditional, single parent, pregnant women, out of work individuals, English learners, homeless, foster care, active duty military parents, *corrections</i>			
Local Workforce Development Board Member			
Regional Economic Development Member			
Local Business & Industry Representative			

Role	Name	Organization	Email/Contact Info
Parents and Students			
Representatives of Indian Tribes and Tribal Organizations			
Youth/Adult Corrections Education Representative			
Other Relevant Stakeholders			



**Worksheets for local education partners to complete prior to the regional meeting.**

## Local Needs Assessment Required Stakeholder Verification



This form must be completed to verify the engagement of each of the required stakeholders. Please indicate the stakeholder engaged, the organization or company represented, and how the stakeholder was engaged in the Evidence of Engagement column. Evidence could be completing a survey, attending a meeting, focus group, etc.

Require Stakeholder	Name of Stakeholder	Organization/Company Representing	Evidence of Engagement
1. Representatives of career and technical education programs in a local educational agency or educational service agency, including teachers, career guidance and academic counselors, principals and other school leaders, administrators, and specialized instructional support personnel and paraprofessionals			
2. Representatives of career and technical education programs at postsecondary educational institutions, including faculty and administrators;			
3. Representatives of the State board or local workforce development boards and a range of local or regional businesses or industries;			

4. Parents and students			
5. Representatives of special populations including individuals with disabilities; individuals from economically disadvantaged families, including low-income youth and adults; individuals preparing for non-traditional fields; single parents, including single pregnant women; out-of-workforce individuals; English learners; homeless individuals: youth who are in, or have aged out of, the foster care system; youth with a parent who is a member of the armed forces (as such term is defined in section 101(a)(4) of title 10, United States Code); and is on active duty (as such term is defined in section 101(d)(1) of such title.			
6. Representatives of regional or local agencies serving out-of-school youth, homeless children and youth, and at-risk youth (as defined in section 1432 of the Elementary and Secondary Education Act of 1965)			

7. Representatives of Indian Tribes and Tribal organizations in the State, where applicable			
8. Any other stakeholders that the eligible agency may require the eligible recipient to consult			

### Local Needs Assessment Element 1 Worksheet: Career Advisement & Development

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. To what extent are CTE instructors and other faculty trained to be career coaches or have meaningful conversations with learners about their skill sets and career choices? For example, are they confident and competent?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
2. To what extent are all opportunities presented to learners to consider 2- and 4-year postsecondary education, technical colleges, apprenticeships, military, and direct employment?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
3. To what extent are CTE instructors collaborating with counseling/career advisement professionals?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>

<b>Element 1: Career Advisement &amp; Development</b> <b>Ratings:</b> 1 Significant gaps and/or multiple gaps exist 2 Some gaps exist and/or we do not have a concrete plan to address them 3 Very few gaps exist, and we have processes in place to close the remaining gaps 4 No gaps exist <b>Rating (circle one)</b> <b>1   2   3   4</b>	<b>Strategies for Element 1 in Priority Order</b>



**Local Needs Assessment Element 2 Worksheet: Evaluation of Workforce Alignment**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. To what extent are we offering programs of study that are preparing learners for current and future workforce and economic needs?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
2. Evaluate the processes in place for reviewing workforce and economic data to determine effectiveness and impact of program offerings on a regular basis.		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>

<b>Element 2: Workforce Alignment</b>	<b>Strategies for Element 2 in Priority Order</b>
<b>Ratings:</b> 1 Significant gaps and/or multiple gaps exist 2 Some gaps exist and/or we do not have a concrete plan to address them 3 Very few gaps exist, and we have processes in place to close the remaining gaps 4 No gaps exist	
<b>Rating (circle one)</b> <b>1   2   3   4</b>	



**Local Needs Assessment Element 3 Worksheet: Evaluation of Program Quality including Size, Scope & Quality and Progress toward Implementing CTE Programs of Study**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided. Colorado’s definition of Size, Scope and Quality can be found in the Needs Assessment Handbook.

1. How do programs maintain conversations with secondary, postsecondary, and business/industry representatives so that a robust and up-to-date skill set is developed in each program?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
2. Which programs have current industry standard equipment, appropriate classroom and laboratory space, and quality instructional materials?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
3. Which programs of study incorporate relevant academic, technical, and postsecondary, workforce readiness (PWR) skills at every learner level? (Including concurrent enrollment opportunities)		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>

<b>Element 3: Program Quality</b>	<b>Strategies for Element 3 in Priority Order</b>
<b>Ratings:</b> 1 Significant gaps and/or multiple gaps exist 2 Some gaps exist and/or we do not have a concrete plan to address them 3 Very few gaps exist, and we have processes in place to close the remaining gaps 4 No gaps exist	
<b>Rating</b> (circle one) <b>1 2 3 4</b>	

**Local Needs Assessment Element 4 Worksheet: Evaluation of Student Performance**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. Where do the biggest gaps in Perkins performance indicators exist between subgroups of students and programs areas?		
Current State	Desired State	Evidence

Element 4: Student Performance	Strategies for Element 4 in Priority Order
<b>Ratings:</b> 1 Significant gaps and/or multiple gaps exist 2 Some gaps exist and/or we do not have a concrete plan to address them 3 Very few gaps exist, and we have processes in place to close the remaining gaps 4 No gaps exist <b>Rating (circle one)</b> <b>1 2 3 4</b>	

**Local Needs Assessment Element 5 Worksheet: Improving Equity and Access**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. Which students identified as special population groups are under-represented or over-represented in CTE programs overall? In which program areas?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
2. What barriers currently exist that prevent each special population group from participating in your programs?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
3. How can cultural elements such as racial, ethnic, socio-economic, or geographic elements be considered and addressed when seeking out and working with learners and their families?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
4. Are there new programs that need to be developed to ensure access in our region?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>

<p><b>Element 5: Equity &amp; Access</b></p> <p><b>Ratings:</b></p> <p>1 Significant gaps and/or multiple gaps exist</p> <p>2 Some gaps exist and/or we do not have a concrete plan to address them</p> <p>3 Very few gaps exist, and we have processes in place to close the remaining gaps</p> <p>4 No gaps exist</p> <p><b>Rating</b> (circle one)</p> <p><b>1 2 3 4</b></p>	<p><b>Strategies for Element 5 in Priority Order</b></p>          
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**Local Needs Assessment Element 6 Worksheet: Recruitment, Retention and Training of CTE Educators**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. What processes are in place to recruit new CTE educators? For example, what is the process to develop or recruit CTE instructors from existing staff/students?

Current State	Desired State	Evidence

2. What strategies from the Colorado CTE Strategic Plan are you using to retain CTE educators?

Current State	Desired State	Evidence

3. What strategies are in place to utilize instructors/educators across the region? For example, to what extent do districts share instructors to create full-time positions, where applicable?

Current State	Desired State	Evidence

<p><b>Element 6: Recruitment, Retention &amp; Training</b></p> <p><b>Ratings:</b></p> <ol style="list-style-type: none"> <li>1 Significant gaps and/or multiple gaps exist</li> <li>2 Some gaps exist and/or we do not have a concrete plan to address them</li> <li>3 Very few gaps exist, and we have processes in place to close the remaining gaps</li> <li>4 No gaps exist</li> </ol> <p><b>Rating</b> (circle one)</p> <p><b>1   2   3   4</b></p>	<p><b>Strategies for Element 6 in Priority Order</b></p>          
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**Local Needs Assessment Element 7 Worksheet: Work-based Learning**

Discuss each of the following questions in light of the data collected and notes from interviews, focus groups, or other methodologies. Capture notes in the space provided.

1. How successful are current work-based learning experiences in enhancing technical and professional, workplace readiness (PWR) skills for all learners?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
2. What strategies are used to recruit and retain employers to participate in work-based learning programs? What should be added?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
3. How are you evaluating employer satisfaction with the learners they supervise and the quality of the work-based learning experiences?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
4. How are school/campus-based enterprises used as a vehicle to provide work-based learning experiences?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>
5. To what extent are work-based learning experiences intentionally connected to classroom instruction and activities and the student's career plan?		
<b>Current State</b>	<b>Desired State</b>	<b>Evidence</b>

<p><b>Element 7: Work-based Learning Ratings:</b></p> <p>1 Significant gaps and/or multiple gaps exist</p> <p>2 Some gaps exist and/or we do not have a concrete plan to address them</p> <p>3 Very few gaps exist, and we have processes in place to close the remaining gaps</p> <p>4 No gaps exist</p> <p><b>Rating</b> (circle one)</p> <p><b>1 2 3 4</b></p>	<p><b>Strategies for Element 7 in Priority Order</b></p>
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# **Worksheets for the regional meeting.**



### Potential Stakeholder Worksheet for Regional Level

Use this template to identify potential stakeholders to assist in the needs assessment process.

Role	Name	Organization	Email/Contact Info
Secondary CTE Faculty			
Secondary Career Counselors and Academic Counselors			
Secondary Administrators			
Secondary Instructional Support, Paraprofessionals			
Postsecondary CTE Faculty			
Postsecondary Administrators			



Role	Name	Organization	Email/Contact Info
Postsecondary Career Counseling and Advising Professionals			
Representatives of Special Populations <i>Gender, race, ethnicity, migrant status, disability, economically disadvantaged, nontraditional, single parent, pregnant women, out of work individuals, English learners, homeless, foster care, active duty military parents, *corrections</i>			
Local Workforce Development Board Member			
Regional Economic Development Member			
Local Business & Industry Representative			

Role	Name	Organization	Email/Contact Info
Parents and Students			
Representatives of Indian Tribes and Tribal Organizations			
Youth/Adult Corrections Education Representative			
Other Relevant Stakeholders			

## Regional Needs Assessment Element 1 Worksheet: Career Advisement & Development



**Strategic Plan Goal:** Ensure each Colorado learner has access to ongoing career advisement & development.

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>



## Regional Needs Assessment Element 2 Worksheet: Evaluation of Workforce Alignment

**Strategic Plan Goal:** Elevate the quality of CTE programs to support each learner’s skill development and meet industry needs.

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>

**Regional Needs Assessment  
Element 3 Worksheet:**

**Program Quality including Size, Scope & Quality and  
Progress toward Implementing CTE Programs of Study**



**Strategic Plan Goal:** Elevate the quality of CTE programs to support each learner’s skill development and meet industry needs.

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>

## Regional Needs Assessment Element 4 Worksheet: Evaluation of Student Performance



**Strategic Plan Goal:** Elevate the quality of CTE programs to support each learner's skill development and meet industry needs.

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>



## Regional Needs Assessment Element 5 Worksheet: Improving Equity and Access

**Strategic Plan Foundational Elements:** Create opportunities for each learner to access quality CTE programs and distribution of CTE programs throughout the state. Provide each learner with the opportunity to participate in a CTE program and decrease the gaps of CTE participation for target populations, non-traditional occupations and geographic areas.

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>



## Regional Needs Assessment Element 6 Worksheet: Recruitment, Retention and Training of CTE Educators

**Strategic Plan Goal:** Develop and ensure a viable pipeline of CTE instructors to fill the educator position at the middle school, secondary, and postsecondary levels.

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>





## Regional Needs Assessment Element 7 Worksheet: Work-based Learning

**Strategic Plan Goal:** Ensure access to meaningful work-based learning opportunities for each CTE learner

<b>Strategies from Local Worksheets</b>
<b>1. What are the potential common assets to accomplish this goal?</b>
<b>2. What are the potential common barriers to accomplish the goal?</b>
<b>3. What shared stakeholders are needed for this goal to succeed?</b>
<b>4. Where are the biggest gaps in performance for the strategies listed?</b>
<b>5. List in priority order, the strategies to be addressed on the regional level.</b>

**Needs Assessment Results Document to be completed as a result of the regional meeting. All three parts to this Document must be completed.**

**The final page must be signed off by all local education partners in the region.**



### Needs Assessment Results Document -Part 1

Identify the priority strategies to be addressed based on the consolidation of local strategies at the regional level.

Each strategy must be categorized as Tier1, Tier 2 or Tier 3 in priority.

Element	Strategies Listed in Priority Order	Tier Rating
<b>1: Career Advisement &amp; Development</b>		
<b>Element</b>	<b>Strategies Listed in Priority Order</b>	<b>Tier Rating</b>
<b>2: Local Workforce Alignment</b>		
<b>Element</b>	<b>Strategies Listed in Priority Order</b>	<b>Tier Rating</b>
<b>3: Size, Scope &amp; Quality and Progress Towards Implementing CTE Programs of Study</b>		
<b>Element</b>	<b>Strategies Listed in Priority Order</b>	<b>Tier Rating</b>
<b>4: Student Performance</b>		
<b>Element</b>	<b>Strategies Listed in Priority Order</b>	<b>Tier Rating</b>
<b>5: Progress Toward Improving Equity</b>		
<b>Element</b>	<b>Strategies Listed in Priority Order</b>	<b>Tier Rating</b>
<b>6: Recruitment, Retention and Training of Faculty and Staff</b>		
<b>Element</b>	<b>Strategies Listed in Priority Order</b>	<b>Tier Rating</b>
<b>7: Work-Based Learning</b>		

## Needs Assessment Results Document -Part 2



Use this form to identify the Tier 1 strategies to be addressed on the regional level. List in priority order.

Strategies to be Addressed on Regional Level, Listed in Priority Order	Element Addressed

### Needs Assessment Results Document Signature Page – Part 3



We, the undersigned, agree and accept the priority strategies for our region as documented in the Needs Assessment Results Document.

Institution	CTE Coordinator	Signature	Date
Pikes Peak College	Iam Incharge	_____	_____
		_____	_____
		_____	_____

## Needs Assessment Required Stakeholder Verification



This form must be completed to verify the engagement of each of the required stakeholders. Please indicate how the stakeholder was engaged in the Evidence of Engagement column. This could be completing a survey, attending the regional meeting, focus group, etc.

Require Stakeholder	Name of Stakeholder	Organization/Company Representing	Evidence of Engagement
1. Representatives of career and technical education programs in a local educational agency or educational service agency, including teachers, career guidance and academic counselors, principals and other school leaders, administrators, and specialized instructional support personnel and paraprofessionals			
2. Representatives of career and technical education programs at postsecondary educational institutions, including faculty and administrators;			
3. Representatives of the State board or local workforce development boards and a range of local or regional businesses or industries;			

4. Parents and students			
5. Representatives of special populations including individuals with disabilities; individuals from economically disadvantaged families, including low-income youth and adults; individuals preparing for non-traditional fields; single parents, including single pregnant women; out-of-workforce individuals; English learners; homeless individuals: youth who are in, or have aged out of, the foster care system; youth with a parent who is a member of the armed forces (as such term is defined in section 101(a)(4) of title 10, United States Code); and is on active duty (as such term is defined in section 101(d)(1) of such title.			
6. Representatives of regional or local agencies serving out-of-school youth, homeless children and youth, and at-risk youth (as defined in section 1432 of the Elementary and Secondary Education Act of 1965)			

7. Representatives of Indian Tribes and Tribal organizations in the State, where applicable			
8. Any other stakeholders that the eligible agency may require the eligible recipient to consult			





# Regional Needs Assessment Resource Guide



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### Glossary of Terms

Convener	The Perkins eligible recipient to facilitate the needs assessment process on the regional level.
Core Performance Indicator	The required performance indicators as defined in the Perkins Act that measure student performance on a variety of indicators.
CTSO	Career and Technical Student Organization – A student organization aligned to a CTE program for the purpose of proving application of instruction and personal development. Colorado supports the following CTSOs: DECA, FBLA/PBL, FCCLA, FFA, HOSA, SkillsUSA, TSA, and (SC)2.
Education Partner	A term used to describe the Perkins eligible recipients involved in the regional needs assessment. The education partners may consist of colleges, Board of Cooperative Education Services, and or school districts identified in the economic region completing the needs assessment.
Labor Market Information	The term is broadly used to describe information on current and future labor market needs. Several sources of labor market information are available.
McKinney-Vento Act	The McKinney–Vento Homeless Assistance Act of 1987 (Pub. L. 100-77, July 22, 1987, 101 Stat. 482, 42 U.S.C. § 11301 et seq.) is a federal law that provides federal money for homeless shelter programs. It was the first significant federal legislative response to homelessness, and was passed by the 100th Congress and signed into law by President Ronald Reagan on July 22, 1987. The McKinney Act originally had fifteen programs providing a spectrum of services to homeless people, including the Continuum of Care Programs: the Supportive Housing Program, the Shelter Plus Care Program, and the Single Room Occupancy Program, as well as the Emergency Shelter Grant Program.
Program of Study	A Program of Study is a coordinated, non-duplicative sequence of academic and technical content at the secondary and postsecondary level that: <ul style="list-style-type: none"> <li>• Incorporates challenging State academic standards;</li> <li>• Addresses both academic and technical knowledge and skills, including employability (career readiness) skills;</li> <li>• Progresses in specificity (beginning with all aspects of an industry or career cluster and leading to more occupation-specific instruction);</li> <li>• Has multiple entry and exit points that incorporates credentialing; and</li> </ul>

	<ul style="list-style-type: none"> <li>• Culminates in the attainment of a recognized postsecondary credential.</li> </ul>
Special Population Subgroup	The groupings of students as defined in the Perkins Act for analysis of student performance on the performance indicators as required by the Act.
Stakeholder	An individual or organization that through extensive collaboration among state- and local-level secondary, postsecondary, business, and other partners can impact the development and implementation of high-quality CTE programs that prepare students to gain employment in high-skill, high-wage, and high-demand occupations that meet state and local workforce needs.
Vocational Rehabilitation	Vocational rehabilitation, at its core, is a set of services provided to individuals who suffer from mental or physical disorders, but who still have the ability and desire to learn and function productively. These services include education, job training and skills that will be needed to get and keep a job. Vocational rehabilitation services are sometimes offered to those who have undergone an injury, or who have endured a mental disorder to try and retrain them for work again. Vocational Rehabilitation is administered through WIOA.
WIOA	The Workforce Innovation and Opportunity Act (WIOA) was signed into law by President Obama as Public Law 113-128. WIOA is the first legislative reform of the public workforce system in more than 15 years since the Workforce Investment Act (WIA). WIOA includes "core" programs such as: (1) Adult, Dislocated and Youth formula programs administered by the US Department of Labor; (2) the Adult Education and Literacy program administered by the Department of Education (ED); (3) Wagner Peyser Employment Service administered by USDOL; and (4) programs under the Rehabilitation Act that provide services to individuals with disabilities administered by ED.
Work-based Learning	Work-based learning is a continuum of activities that occur, in part or in whole, in the workplace, providing the learner with hands-on, real world experience.
Workforce Board	WILA requires a state and local workforce board to oversee the administration of WIOA and assist with workforce initiatives in each state and region.



LEVERAGING CTE  
TO **STRENGTHEN**  
COLORADO COMMUNITIES

# SUMMARY FINDINGS

February 2019 CO CTE Regional Stakeholder Meetings

**Six regional meetings were held throughout Colorado in February 2019. 280 stakeholders, including parents and representatives from business and industry; community organizations; workforce and economic development agencies; and education (secondary and postsecondary) attended.**

Objectives included:

- 1) Share information on the CTE visioning and strategic planning process.
- 2) Collect feedback on how to improve the state CTE system as a component of Colorado's talent strategy.
- 3) Establish mutually beneficial relationships with stakeholders for feedback on CO CTE's strategic plan.

TOPIC	Approximate Attendance (across all meetings)
<b>Career Exploration and Career Development</b>	<b>94</b>
<b>Notetakers' Summaries</b>	
<i>Summary of Major Themes or Points:</i>	
• Require work experience to renew CTE credential	
• Let industry lead the conversation about career exploration and career development	
• Start early – upper elementary and middle school for career exploration and development	
• Use advisory councils to assist with career exploration and development	
• Provide externships for teachers to become more aware of current industries to advise students	
• Strengths business voice – advisory committee, instructional programs, content, etc.	
• Provide programs to isolated or rural areas with limited access to diverse opportunities	
• Focus on getting students career ready and not just college ready	
• All teachers need to be involved in career development for students, not just CTE	
• Get all workforce/education systems aligned	
• Focus on skill develop that are transferable, not specific occupations at early age	
• Provide resources for students to explore careers and education options	
<b>Exit Ticket Summaries – Important or best ideas</b>	
	<i>Rank</i>
• Need to start younger with career exploration	1
• Need professional development for teachers in business/industry settings, externships	2
• Change focus from what you what to do to what you want to be – skill based	3
• Partnerships between educators and industry are essential	4
• Strengthen advisory committees to engage industry	5
• Partner with business and industry for career exploration	6
• Recruit retired military, business/industry for teaching positions	7
• Need database/one stop for career exploration/career development resources	8
• Expose career opportunities to all students, not just CTE	9
• Make current data available to teachers to advise on career choices	10

TOPIC	Approximate Attendance (across all meetings)
<b>Future of Work</b>	<b>75</b>
<b>Notetakers' Summaries</b>	
<i>Summary of Major Themes or Points:</i>	
• Need emphasis on employability skills and the practice of them	
• Need emphasis on critical thinking/problem solving/trouble shooting	
• Need emphasis on communication skills (read, write, speak, listen, interpersonal)	
• Need focus on teamwork/collaboration on work	
• Need to create opportunities for students to experience industry relevant equipment	
• Create more opportunities for advisory committees to be more vested in CTE	
• Provide younger students exposure to multiple career options	
• Use industry professionals to education CTE teachers and administrators	
• Expand business/industry partnerships to invest in CTE programs (equipment, etc.)	
• Business and industry need to understand today's CTE programs	
• Need more work-based learning opportunities	
• Business/Industry and education must communicate with each other	
<b>Exit Ticket Summaries – Important or best ideas</b>	<b>Rank</b>
• Find ways to institutionalize employability skill training for all students	1
• Advisory committees need to be used to inform curriculum and transition	2
• Emphasize computer and technology literacy and application	3
• Create and connect sector partnerships	4
• Create opportunities for workforce to be in schools	5
• Collaborate with community colleges	6
• Combine advisory groups across districts or regions	7
• Teachers need true and current industry education to infuse into instruction	8
• More collaboration including articulation between secondary/postsecondary and industry	9
• Students need to be preparing for careers 5-10 years in future	10

TOPIC	Approximate Attendance (across all meetings)
<b>Transitions from Education to Careers</b>	<b>75</b>
<b>Notetakers' Summaries</b>	
<i>Summary of Major Themes or Points:</i>	
• Create more work-based learning opportunities for students to explore careers	
• Funding for career advisement/counseling programs	
• Need parental support and involvement at early age of student	
• Need to emphasize self-advocacy, grit and higher-order thinking skills	
• Create more opportunities for student to explore career areas, required skill sets, etc	
• Know when and how to use technology including cell phones	
• Need to develop stamina and perseverance	
• Expose students to career options early and often	
• Hold students accountable for their own actions and planning	
• Emphasize financial planning for educational opportunities	
• Need professional development for teachers to assist with transition planning	
• Students don't know where or how to get appropriate information for transition planning	
<b>Exit Ticket Summaries – Important or best ideas</b>	<b>Rank</b>
• Need mentor programs	1
• Need to emphasize professional and employability skills at both secondary and postsecondary levels	2
• CTE needs to emphasize basic academic skills – esp. math, reading and writing	3
• Teach students appropriate use of social media and technology	4
• Start earlier with planning for appropriate education and training	5
• Students need more opportunities to explore before making education/work decisions	6
• Understanding the nontraditional pipeline to get people back in pipeline including ABE	7
• Need more business/industry/education partnerships to provide opportunities for students	8
• Students/parents need more information to understand current/emerging economy to make informed choices	9
• Need support for rural CTE to provide equity of opportunities	10



TOPIC	Approximate Attendance (across all meetings)
<b>Perceptions of CTE and Skills-Based Careers</b>	<b>57</b>
<b>Notetakers' Summaries</b>	
<i>Summary of Major Themes or Points:</i>	
• Address perception issues with parents – don't see relevance of CTE programs	
• CTE for students with behavior disorders and lower academic performance	
• Students/parents/community don't know what CTE is	
• Students believe CTE is a lesser choice than 4-year degree	
• Change elective language so CTE is not just another elective program	
• Show students broad spectrum of career opportunities	
• Counselors talk more about college than career – need to reverse the order	
• Need to inform that CTE does not preclude 4-year degree	
• Need to inform on pay opportunities with CTE	
• Parents and counselors must have clear messaging about CTE	
• Inform on student debt and over saturation of some 4-year degrees	
• Need much stronger messaging about CTE	
<b>Exit Ticket Summaries – Important or best ideas</b>	
	<i>Rank</i>
• Perception still exists that 4-year degree is only ticket to success	1
• Educate parents on value of CTE	2
• Change the vocabulary about CTE – some still use vocational term	3
• Address student misconceptions about CTE and CTE options	4
• Need to market to and educate the public	5
• Let students know that life is not linear	6
• Change perception of CTE as another class and not career preparation	7
• Lack of understanding of where the good, high paying jobs are and what they require	8
• Need to strengthen basic skills in CTE classes	9
• Educate populous on CTE opportunities, wages for careers, education requirements, etc.	10

TOPIC	Approximate Attendance (across all meetings)
<b>Work-based Learning</b>	<b>127</b>
<b>Notetakers' Summaries</b>	
<i>Summary of Major Themes or Points:</i>	
• Insurance Issues including Workman's Comp	
• Liability/risk management Issues	
• Age Issues, especially with hazardous occupations	
• Lack of flexibility in scheduling between business and education	
• Student transportation	
• Drug testing/students testing clean	
• Use technology to provide opportunities	
• Implement school-based enterprises	
• Educate business about work-based learning to increase awareness	
• Get parents on board to support work-based learning	
• Need statewide database to connect learners/employers to opportunities	
• Provide quality examples of work-based learning and apprenticeship to replicate	
• Make sure students are prepared for work-based learning experiences	
• Collaborative messaging and branding for work-based learning across the state	
<b>Exit Ticket Summaries – Important or best ideas</b>	
	<i>Rank</i>
• Create a statewide database to consolidate WKBL/apprenticeship opportunities and information/templates/policies	1
• Insurance and liability must be addressed	2
• Age barriers for certain industries due to hazardous occupations definition	3
• Transportation barriers for student travel	4
• Consolidation of current efforts – too many groups trying to do the same thing	5
• Statewide internet for all learners including rural/equity-based opportunities	6
• Exemplars and models of what works	7
• Funding	8
• Policy, systems and marketing to bring WKBL/Apprenticeships to the table	9
• Incentives for employers to participate in WKBL/Apprenticeships	10

## What Does the Law Say? What Does the Law Mean?

### Size, Scope & Quality

<p><b>What does the law say?</b> The comprehensive local needs assessment will include a description of how CTE programs offered by the local eligible recipient are sufficient in size, scope, and quality to meet the needs of all students served by the eligible recipient.</p>	<p><b>What does the law mean?</b> The provision maintains the size, scope and quality requirements in Perkins IV, but instead requires that this description be addressed through the needs assessment (which is part of the local application in Perkins V) instead of in the local plan in Perkins IV. The state has the responsibility to establish the definition of these three requirements.</p>
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### Labor Market Alignment

<p><b>What does the law say?</b> The comprehensive local needs assessment will include a description of how CTE programs offered by the eligible recipient are aligned to State, regional, Tribal, or local in-demand industry sectors or occupations identified by the State workforce development board or local workforce development board, including career pathways, where appropriate. The CLNA may also identify programs designed to meet local education or economic needs not identified by State boards or local workforce development boards.</p>	<p><b>What does the law mean?</b> The law requires an analysis of how CTE programs are meeting workforce needs and provides eligible recipients with multiple ways to demonstrate labor market demand, from a combination of state and local sources.</p>
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### Student Performance Data

<p><b>What does the law say?</b> The comprehensive local needs assessment will include an evaluation of the performance of the students served by the local eligible recipient with respect to State determined and local performance levels, including an evaluation of performance for special populations and each subgroup.</p>	<p><b>What does the law mean?</b> The comprehensive local needs assessment must contain an evaluation of CTE concentrators' performance on the core performance indicators. While eligible recipients already are required to do this as part of their local plans under Perkins IV, the evaluation now must at a minimum include a performance analysis of the subgroups (as defined in ESSA) and the expanded list of special populations.</p>
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### Progress towards Implementing CTE Programs/Programs of Study

**What does the law say?**

The comprehensive local needs assessment will include an evaluation of progress toward the implementation of CTE programs and programs of study.

**What does the law mean?**

This evaluation should be both a backward and forward-looking review of the programs and programs of study offered. In addition to meeting the size, scope and quality, this requirement addresses current and future plans to support the implementation of programs and programs of study.

### Recruitment, Retention and Training of Faculty and Staff

**What does the law say?**

The comprehensive local needs assessment will include a description of how the eligible recipient will improve recruitment, retention, and training of CTE teachers, faculty, specialized instructional support personnel, paraprofessionals, and career guidance and academic counselors, including individuals in groups underrepresented in such professions.

**What does the law mean?**

Eligible recipients must evaluate their current and future recruitment, retention and professional development needs. This may require root cause analyses of teacher or other professional shortages.

### Progress Towards Improving Access & Equity

**What does the law say?**

The comprehensive local needs assessment shall include a description of:

- Progress toward implementation of equal access to high-quality CTE courses and programs of study, for all students including strategies to overcome barriers that result in lower rates of access to, or performance gaps in, the courses and programs for special populations;
- How they are providing programs that are designed to enable special populations to meet the local levels of performance; and
- How they are providing activities to prepare special populations for high- skill, high-wage, or in-demand industry sectors or occupations in competitive, integrated settings that will lead to self-sufficiency.

**What does the law mean?**

This requirement is focused on supports for special populations. The law challenges states to assist locals in directing resources or supports to close performance gaps and remove barriers. There may be different supports necessary to address different barriers and different populations.



# 2019-2024 CTE STRATEGIC PLAN EXECUTIVE SUMMARY

## Vision for Colorado CTE

Colorado Career & Technical Education (CTE) leverages workforce and education systems so that each learner has quality CTE experiences leading to lifelong career success.

CTE Stakeholders across the state helped develop a statewide vision to position CTE as a driver in the state's education, workforce, and economic priorities.

## Goals

<b>GOAL 1</b>	<b>Career Advisement &amp; Development</b> – Ensure each Colorado Learner has access to ongoing career advisement and development.
<b>GOAL 2</b>	<b>Instructor Recruitment &amp; Retention</b> – Develop and ensure a viable pipeline of CTE instructors to fill the educator positions at the middle school, secondary, and postsecondary levels.
<b>GOAL 3</b>	<b>Partnerships</b> – Prepare Colorado's future workforce through transformational partnerships.
<b>GOAL 4</b>	<b>Quality Programs</b> – Elevate the quality of CTE programs to support each learner's skill development and meet industry needs.
<b>GOAL 5</b>	<b>Work-Based Learning</b> – Ensure access to meaningful work-based learning opportunities for each CTE learner.
<b>FOUNDATIONAL ELEMENTS</b>	<b>EQUITY &amp; ACCESS</b> Create opportunities for each learner to access quality CTE programs and distribution of CTE programs throughout the state.
	<b>INCLUSIVITY</b> Provide each learner with the opportunity to participate in a CTE program and decrease the gaps of CTE participation for target populations, non-traditional occupations, and geographic areas.

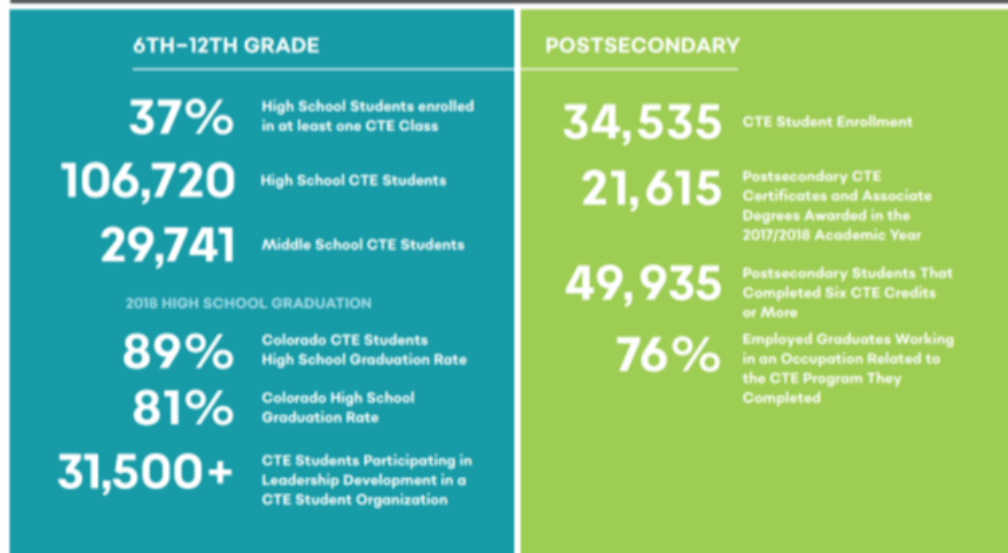
## Purpose

Colorado's Strategic Plan for Career & Technical Education (CTE) will ultimately serve secondary and postsecondary learners in their preparation for meaningful careers, provide the state's employers with better prepared talent, and lend to the development of stronger communities. The CTE Strategic Plan will effectively guide the state's efforts over the next five years and will:

- **Highlight** opportunities to engage stakeholders.
- **Establish** clear and consistent goals for the education and workforce systems.
- **Provide** the platform to communicate Colorado's CTE vision publicly.

Colorado works with many partners and stakeholders involved in career education and workforce development initiatives. This creates an opportunity to enhance CTE programs and advance education, economic, and workforce systems by leveraging their experience and expertise. Advisory committees and sector partnerships are valuable partners in the CTE system. Partnering with these entities provides the opportunity to more effectively align CTE programs with the needs of business and industry.

FACTS & FIGURES FOR THE 2017/2018 ACADEMIC YEAR



**What is your role in CTE?**

An action plan can help you identify opportunities to work with CTE learners, instructors, and partners. As you develop an action plan at the local or state level, consider and document how you can:

1. Engage diverse stakeholders.
2. Establish priorities and goals for your local education and workforce system.
3. Evaluate the success of your CTE programs.
4. Focus on shared priorities, relevant and quality data, talent development, Postsecondary & Work Readiness (PWR) skills, and policy review and development.
5. Identify barriers to success including misalignment and policy and procedural related barriers.
6. Target state and federal CTE funding to support quality CTE programs in your area.

TO GET INVOLVED, contact Colorado CTE at the Colorado Community College System.

Address: 9101 East Lowry Boulevard  
Denver, Colorado 80230

Phone: (303) 620-4000

Email: [cte@cccs.edu](mailto:cte@cccs.edu)

Website: [www.coloradostateplan.com](http://www.coloradostateplan.com)

### FY 20 Final Assignment of Regions for Perkins 5 Needs Assessment

<u>District/College Name</u>	<u>City</u>	<u>Standalone or Consortium Name</u>	<u>Final Assignment off Econ. Dvpt. Region</u>
Northeastern Junior College	Sterling	college	1
Fort Morgan RE-3	Fort Morgan	district	1
Julesburg RE-1	Westminster	district	1
Valley RE-1	Sterling	district	1
Akron R-1	Akron	NE BOCES	1
Buffalo RE-4	Merino	NE BOCES	1
Frenchman RE-3	Fleming	NE BOCES	1
Haxtun RE-2J	Haxtun	NE BOCES	1
Holyoke RE-1J	Holyoke	NE BOCES	1
Lone Star 101	Otis	NE BOCES	1
Northeast BOCES Consortium	Haxtun	NE BOCES	1
Otis R-3	Otis	NE BOCES	1
Plateau RE-5	Peetz	NE BOCES	1
Revere School District (Platte Valley RE-3)	Ovid	NE BOCES	1
Wray RD-2	Wray	NE BOCES	1
Yuma 1	Yuma	NE BOCES	1
Morgan Community College	Fort Morgan	college	1
Aims Community College	Greeley	college	2
Ault-Highland RE-9	Ault	Centennial BOCES	2
Briggsdale RE-10J	Briggsdale	Centennial BOCES	2
Brush RE-2J	Brush	Centennial BOCES	2
Centennial BOCES Consortium	Greeley	Centennial BOCES	2
Eaton RE-2	Eaton	Centennial BOCES	2
Johnstown-Milliken RE-5J	Milliken	Centennial BOCES	2
Pawnee RE-12	Grover	Centennial BOCES	2
Platte Valley RE-7	Kersey	Centennial BOCES	2
Prairie RE-11J	New Raymer	Centennial BOCES	2
Weldon Valley RE-20J	Weldona	Centennial BOCES	2
Wiggins RE-50J	Wiggins	Centennial BOCES	2
Estes Park R-3	Estes Park	district	2
Greeley 6	Greeley	district	2
Poudre R-1	Fort Collins	district	2
Thompson R-2J	Loveland	district	2
Weld County RE-8	Ft. Lupton	district	2
Windsor RE-4	Windsor	district	2
Gilcrest RE-1	Gilcrest	South Weld	2
Keenesburg RE-3J		South Weld	2
South Weld Consortium	Gilcrest	South Weld	2
Front Range Community College	Westminster	college	2
St. Vrain Valley RE-1J	Longmont	district	2
Charter School Institute	Denver	district	2
Emily Griffith Technical College	Denver	atc	3
Pickens Technical College	Aurora	atc	3

<u>District/College Name</u>	<u>City</u>	<u>Standalone or Consortium Name</u>	<u>Final Assignment of Econ. Dvpt. Region</u>
Arapahoe Community College	Littleton	college	3
Community College of Aurora	Denver	college	3
Community College of Denver	Denver	college	3
Red Rocks Community College	Lakewood	college	3
Adams 12	Thornton	district	3
Adams County 14	Commerce City	district	3
Adams-Mapleton 1	Denver	district	3
Arapahoe 28J	Aurora	district	3
Boulder Valley RE-2	Boulder	district	3
Brighton 27J	Brighton	district	3
Cherry Creek 5	Greenwood Village	district	3
Denver County 1		district	3
Douglas County RE 1	Castle Rock	district	3
Elizabeth C-1	Elizabeth	district	3
Englewood 1	Englewood	district	3
Jefferson County R-1		district	3
Westminster Public Schools	Westminster	district	3
Littleton 6	Littleton	Littleton Consortium	3
Littleton Consortium	Littleton	Littleton Consortium	3
Sheridan 2	Denver	Littleton Consortium	3
Clear Creek		Not Participating in Perkins	3
Gilpin County		Not Participating in Perkins	3
Front Range Community College	Westminster	college	3
Platte Canyon 1	Bailey	district	3
Pikes Peak Community College	Colorado Springs	college	4
Academy 20	Colorado Springs	district	4
Colorado Springs 11	Colorado Springs	district	4
Falcon 49	Peyton	district	4
Fountain 8	Fountain	district	4
Harrison 2	Colorado Springs	district	4
Widefield 3	Colorado Springs	district	4
Edison 54JT		Not Participating in Perkins	4
Calhan RJ1	Calhan	Pikes Peak Regional Consortium	4
Cheyenne Mountain 12	Colorado Springs	Pikes Peak Regional Consortium	4
Cripple Creek-Victor RE-1	Cripple Creek	Pikes Peak Regional Consortium	4
Ellicott 22	Ellicott	Pikes Peak Regional Consortium	4
Hanover 28	Colorado Springs	Pikes Peak Regional Consortium	4
Lewis-Palmer 38	Monument	Pikes Peak Regional Consortium	4
Manitou Springs 14	Manitou Springs	Pikes Peak Regional Consortium	4
Miami/Yoder 60 JT	Rush	Pikes Peak Regional Consortium	4
Peyton 23 JT	Peyton	Pikes Peak Regional Consortium	4
Pikes Peak Regional Consortium	Peyton	Pikes Peak Regional Consortium	4
Woodland Park RE-2	Woodland Park	Pikes Peak Regional Consortium	4
Arapahoe 32J	Byers	EC BOCES	5
Arickaree R-2	Anton	EC BOCES	5



District/College Name	City	Standalone or Consortium Name	Final Assignment of Econ. Dvpt. Region
Arriba-Flagler C-20	Flagler	EC BOCES	5
Bennett 29J	Bennett	EC BOCES	5
Big Sandy 100J	Simla	EC BOCES	5
Burlington RE-6J	Burlington	EC BOCES	5
Cheyenne RE-5	Cheyenne Wells	EC BOCES	5
Deer Trail 26J	Deer Trail	EC BOCES	5
East Central BOCES Consortium	Limon	EC BOCES	5
Elbert 200	Elbert	EC BOCES	5
Genoa-Hugo C113	Hugo	EC BOCES	5
Idalia RJ-3	Idalia	EC BOCES	5
Karval RE-23	Karval	EC BOCES	5
Kit Carson R-1	Kit Carson	EC BOCES	5
Kit Carson R-23 High Plains	Seibert	EC BOCES	5
Liberty J-4	Joes	EC BOCES	5
Limon RE-4J	Limon	EC BOCES	5
Strasburg 31J	Strasburg	EC BOCES	5
Stratton R-4	Stratton	EC BOCES	5
Woodlin R-104	Woodrow	EC BOCES	5
Agate (Elbert 300)		Not Participating in Perkins	5
Bethune	Bethune	Not Participating in Perkins	5
Kiowa		Not Participating in Perkins	5
Morgan Community College	Fort Morgan	college	5
CAVOC Consortium	La Junta	CAVOC	6
Crowley County RE-1-J	Ordway	CAVOC	6
East Otero R-1	La Junta	CAVOC	6
Fowler R-4J	Fowler	CAVOC	6
Las Animas RE-1	Las Animas	CAVOC	6
Manzanola 3J	Manzanola	CAVOC	6
Otero 31 - Cheraw	Cheraw	CAVOC	6
Rocky Ford R-2	Rocky Ford	CAVOC	6
Swink 33	Swink	CAVOC	6
Lamar Community College	Lamar	college	6
Otero Junior College	La Junta	college	6
Lamar RE-2	Lamar	district	6
Wiley RE-13 JT	Wiley	district	6
Campo		Not Participating in Perkins	6
Vilas		Not Participating in Perkins	6
Eads RE-1	Eads	SE BOCES	6
Granada RE-1	Granada	SE BOCES	6
Holly RE-3	Holly	SE BOCES	6
Kim Reorganized 88	Kim	SE BOCES	6
McClave RE-2	McClave	SE BOCES	6
Pritchett RE-3	Pritchett	SE BOCES	6
Southeast BOCES Consortium	Lamar	SE BOCES	6
Springfield RE-4	Springfield	SE BOCES	6

District/College Name	City	Standalone or Consortium Name	Final Assignment of Econ. Dvpt. Region
Walsh RE-1	Walsh	SE BOCES	6
Plainview		Not Participating in Perkins	6
Pueblo City 60	Pueblo	district	7
Pueblo County Rural 70	Pueblo	district	7
Pueblo Community College	Pueblo	college	7
Colorado Department of Corrections	Colorado Springs	postsecondary correctional	7
Centennial		Not Participating in Perkins	8
Moffat 2		Not Participating in Perkins	8
Alamosa RE-11J	Mosca	San Luis Valley Consortium	8
Center 26 JT	Center	San Luis Valley Consortium	8
Chaffee R-31 - Buena Vista	Buena Vista	San Luis Valley Consortium	8
Creede Consolidated 1	Creede	San Luis Valley Consortium	8
Del Norte C-7	Del Norte	San Luis Valley Consortium	8
Monte Vista C-8	Monte Vista	San Luis Valley Consortium	8
Mountain Valley RE1	Saguache	San Luis Valley Consortium	8
North Conejos RE-1J	La Jara	San Luis Valley Consortium	8
San Luis Valley Consortium	Trinidad	San Luis Valley Consortium	8
Sanford 6J	Sanford	San Luis Valley Consortium	8
Sangre De Cristo RE-22J	Mosca	San Luis Valley Consortium	8
Sargent RE-33J	Monte Vista	San Luis Valley Consortium	8
Sierra Grande R-30	Blanca	San Luis Valley Consortium	8
South Conejos RE-10	Antonito	San Luis Valley Consortium	8
Trinidad State Junior College	Trinidad	college	8
Dolores County RE No.2	Dover Creek	district	9
Durango 9-R	Durango	district	9
Silverton		Not Participating in Perkins	9
Archuleta County 50 JT	Pagosa Springs	San Juan BOCES Consortium	9
Bayfield 10 JT-R		San Juan BOCES Consortium	9
San Juan Boces Consortium	Durango	San Juan BOCES Consortium	9
Montezuma Cortez RE-1	Cortez	SW Consortium	9
Montezuma Dolores RE-4A	Dolores	SW Consortium	9
Montezuma Mancos RE-6	Mancos	SW Consortium	9
Southwest Consortium	Cortez	SW Consortium	9
Pueblo Community College	Pueblo	college	9
Technical College of the Rockies	Delta	atc	10
Delta County 50 J	Delta	district	10
Gunnison Watershed RE1J	Gunnison	district	10
Montrose County RE-1J	Montrose, CO 81401	district	10
Ouray R-1	Ouray	district	10
Telluride R-1	Telluride	district	10
Hinsdale County		Not Participating in Perkins	10
Ridgway		Not Participating in Perkins	10
Norwood R-2J	Norwood	SW Consortium	10
West End RE-2	Nucla	SW Consortium	10
Colorado Northwestern Community College	Rangely	college	11

<u>District/College Name</u>	<u>City</u>	<u>Standalone or Consortium Name</u>	<u>Final Assignment of Econ. Dvpt. Region</u>
Western Colorado Community College	Grand Junction	college	11
Mesa County Valley 51	Grand Junction	district	11
Plateau Valley 50	Collbran	district	11
Roaring Fork		Not Participating in Perkins	11
East Grand 2	Granby	NW BOCES	11
Hayden RE-1	Hayden	NW BOCES	11
Moffat County RE-1	Craig	NW BOCES	11
North Park R-1		NW BOCES	11
Northwest Colorado Boces Consortium	Steamboat Springs	NW BOCES	11
South Routt RE-3	Oak Creek	NW BOCES	11
Steamboat Springs RE-2	Steamboat Springs	NW BOCES	11
West Grand 1-JT	Kremmling	NW BOCES	11
Meeker RE-1	Meeker	Rio Blanco BOCES	11
Rangely RE-4		Rio Blanco BOCES	11
Rio Blanco BOCES Consortium		Rio Blanco BOCES	11
Colorado Mountain College - Glenwood	Glenwood Springs	college	11
Summit RE-1	Frisco	district	12
Aspen 1	Aspen	High Country Consortium	12
De Beque 49JT	DeBeque	High Country Consortium	12
Eagle County RE 50	Gypsum	High Country Consortium	12
Garfield RE-2	Rifle	High Country Consortium	12
High Country Consortium	Gypsum	High Country Consortium	12
Lake County R-1	Leadville	High Country Consortium	12
Park County RE-2	Fairplay	High Country Consortium	12
Colorado Mountain College - Glenwood	Glenwood Springs	college	12
Canon City RE-1	Canon City	district	13
Salida R-32J	Salida	district	13
Cotopaxi		Not Participating in Perkins	13
Custer		Not Participating in Perkins	13
Colorado Mountain College - Glenwood	Glenwood Springs	college	13
Fremont RE-2	Florence	district	13
Pueblo Community College	Pueblo	college	13
Aguilar Reorg 6	Aguilar	TSJC Consortium	14
Branson Reorg 82	Branson	TSJC Consortium	14
Hoehne Reorganized 3		TSJC Consortium	14
Huerfano RE-1	Walsenburg	TSJC Consortium	14
La Veta RE-2	LaVeta	TSJC Consortium	14
Primero Reorg 2		TSJC Consortium	14
Trinidad 1	Trinidad	TSJC Consortium	14
TSJC Consortium	Trinidad	TSJC Consortium	14
Trinidad State Junior College	Trinidad	college	14
Morgan Community College	Fort Morgan	college	1/5
Colorado Mountain College - Glenwood	Glenwood Springs	college	11/12/13
Front Range Community College	Westminster	college	2/3
Pueblo Community College	Pueblo	college	7/9/13
Trinidad State Junior College	Trinidad	college	8/14

## Perkins Act Reference and Resource Documents

### Perkins V Guidance:

#### **A Guide for State Leaders: Maximizing Perkins V's Comprehensive Local Needs Assessment & Local Application to Drive Quality and Equity in CTE** ([Word](#) and [PDF](#))

This guide from Advance CTE provides a summary, analysis and guidance for each major component of the comprehensive local needs assessment and the decisions states can be making now to support a robust CLNA process that aligns with the state's overall vision for CTE.

#### **A Guide for Local Leaders: Maximizing Perkins V's Comprehensive Local Needs Assessment & Local Application to Drive Equality in CTE** ([PDF](#))

This guide from ACTE provides an overview and guidance for the comprehensive local needs assessment so that local leaders can utilize it as a tool for program improvement.

#### **Policy Benchmark Tool: CTE Program of Study Approval** ([LINK](#))

This guide from Advance CTE provides a tool for policy evaluation. An effective process for setting priorities is modeled in this guide.

### Other Resources:

The needs assessment in Perkins V was modeled after the one for Title IV-A (Student Support and Academic Enrichment Grants) in ESSA (with some changes) so these resources that might serve as useful reference points:

#### **Using Needs Assessments for School and District Improvement: A Tactical Guide**

Council of Chief State School Officers. December 5, 2018 ([LINK](#))

#### **Worksheets From: Using Needs Assessment for School and District Improvement**

Council of Chief State School Officers. Julie Corbett and Sam Redding. 2017. ([LINK](#))

#### **Needs Assessment Guidebook**

State Support Network. Cary Cuiccio and Mary Husby-Slater. May 2018 ([LINK](#))

## Program Quality Evaluation Tools

### **ACTE's Quality CTE Program of Study Framework**

ACTE's evidence-based framework assessing across 12 elements to capture the program scope, delivery, implementation and quality. It also touches on program staffing and equity. (LINK) <https://www.acteonline.org/wp-content/uploads/2019/01/HighQualityCTEFramework2018.pdf>

### **Rubric for Linked Learning Pathway Quality Review and Continuous Improvement**

Guide to planning and implementing high quality linked learning pathways (LINK) [https://connectedstudios.org/files/certification/LLPQRC\\_ProcessGuide\\_Abbrev\\_FINAL.pdf](https://connectedstudios.org/files/certification/LLPQRC_ProcessGuide_Abbrev_FINAL.pdf)

### **Design Specification for Implementing the College and Career Pathways System Framework**

American Institutes for Research facilitator's guide for continuous improvement in designing a career pathway system. (LINK)

## Resources for Achieving Access and Equity

Perkins Collaborative Resource Network

<https://cte.ed.gov/initiatives/advancing-equity-in-cte>

Association for Career and Technical Education

<https://www.acteonline.org/professional-development/high-quality-cte-tools/access-and-equity/>

Advance CTE

<https://careertech.org/topic/access-equity>

JFF - Jobs For the Future

<https://www.jff.org/points-of-view/10-equity-questions-ask-about-career-and-technical-education/>

Center for American Progress

<https://www.americanprogress.org/issues/education-k-12/news/2019/08/28/473876/advancing-racial-equity-career-technical-education-enrollment/>

The following pages contain workforce data provided by EMSI as an example of labor market information. There is also a listing of Workforce and Economic Personnel to consult.

There are other sources of information to use to document high skill, high wage and in-demand occupations identified in the *Needs Assessment Handbook*.

## Colorado Workforce Intelligence and Data Expert Group EMSI Super User



Please contact your local data expert with your workforce intelligence needs, and they will determine the best way to move forward with your question or request.

They may provide the information directly, refer your request to another Emsi account holder in their organization, or escalate the request to be examined and addressed by the data expert team.

In the event that your local data expert is not available, please feel free to contact a member of the data expert team below. They will attempt to assist with the project, or will escalate the request to the data expert team.

Individuals highlighted in blue are chairs of this group and should be considered primary contacts for additional Emsi or data needs.

<b>Adams County Workforce &amp; Business Center</b>	<b>Arapahoe / Douglas Works!</b>	<b>Workforce Boulder County</b>	<b>Denver Office of Economic Development -Workforce Services</b>
Greg McBoat - Business Information Analyst	Patrick Holwell - Workforce Economist	Barbara Larsen - Business Services Support Analyst	Todd Nielsen - Management Analyst III
11860 N Pecos Street, 1st Floor Westminster, CO 80234	6974 S Lima Street Centennial, CO 80112	515 Coffman Street Longmont, CO 80501	101 W Colfax Avenue, 8th Floor Denver, CO 80202
Desk: 720-523-2468 <a href="mailto:GMcBoat@AdCoGov.org">GMcBoat@AdCoGov.org</a>	Desk: 303-636-1251 <a href="mailto:pholwell@arapahogov.com">pholwell@arapahogov.com</a>	Desk: 720-864-6665 <a href="mailto:blarsen@bouldercounty.org">blarsen@bouldercounty.org</a>	Desk: 720-913-1509 Mobile: 303-808-9763 <a href="mailto:todd.nielsen@denvergov.org">todd.nielsen@denvergov.org</a>
<b>Jefferson County Workforce &amp; Business Center</b>	<b>Larimer County Economic &amp; Workforce Development</b>	<b>Mesa County Workforce Center</b>	<b>Pikes Peak Workforce Center</b>
Kyle Albright - Workforce Data Coordinator	Amanda Repella - Data Analyst	Victor Carreras - Employment Specialist/Authorized Job Profiler	Jennifer Pierceall-Herman - Industry Relations Specialist
3500 Illinois Street, Suite 1600 Golden, CO 80401	200 W Oak Street, 5th Floor Fort Collins, CO 80521	512 29 1/2 Road Grand Junction, CO 81504	1675 W Garden of the Gods Road Colorado Springs, CO 80907
Desk: 303-271-4757 <a href="mailto:kallbrig@co.jefferson.co.us">kallbrig@co.jefferson.co.us</a>	Desk: 970-498-7141 <a href="mailto:arepella@larimer.org">arepella@larimer.org</a>	Desk: 970-256-2445 <a href="mailto:victor.carreras@mesacounty.us">victor.carreras@mesacounty.us</a>	Desk: 719-667-3743 <a href="mailto:jenniferherman@elpasoco.com">jenniferherman@elpasoco.com</a>
<b>Colorado Rural Consortium - Broomfield</b>	<b>Colorado Rural Consortium - Pueblo &amp; Upper Arkansas Regions</b>	<b>Colorado Rural Consortium - Western / Southwestern Regions</b>	<b>Employment Services of Weld County</b>
David Jones - Business Workforce Specialist	Diana Esquibel - Director	Amanda Waltrip - Administrative Assistant III	Amber Duchaine - Business Service Rep
100 Spader Way Broomfield, CO 88020	212 W 3rd Street Pueblo, CO 81003	504 N 1st Street Montrose, CO 81401	315 N 11th Ave, Building B Greeley, CO 80632
Desk: 303-464-5851 <a href="mailto:djones@broomfield.org">djones@broomfield.org</a>	Desk: 719-562-3773 <a href="mailto:diana.esquibel@state.co.us">diana.esquibel@state.co.us</a>	Desk: 970-249-7783 x15 <a href="mailto:amanda.waltrip@state.co.us">amanda.waltrip@state.co.us</a>	Desk: 970-400-6717 <a href="mailto:aduchaine@weldgov.com">aduchaine@weldgov.com</a>



Colorado Workforce  
Development Council



October 2018



Labor Market Information  
Statewide Top Occupations

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
47-2000	Construction Trades Workers	136,545	148,678	9%	16,762	1.23	\$18.70	\$38,888.18	1) Carpenters; 2) Construction Laborers; 3) Electricians
13-1000	Business Operations Specialists	136,795	148,205	8%	15,221	1.32	\$33.28	\$69,232.34	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
15-1100	Computer Occupations	123,629	136,055	10%	10,891	1.41	\$43.56	\$90,603.37	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
53-7000	Material Moving Workers	67,262	74,260	10%	10,670	0.69	\$14.62	\$30,411.74	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
53-3000	Motor Vehicle Operators	78,907	85,532	8%	10,318	0.89	\$18.03	\$37,495.94	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	83,906	91,414	9%	7,987	1.04	\$23.33	\$48,529.91	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
29-1000	Health Diagnosing and Treating Practitioners	105,046	118,406	13%	7,698	0.98	\$38.15	\$79,354.52	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
13-2000	Financial Specialists	71,597	78,029	9%	7,568	1.25	\$33.33	\$69,321.89	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
49-9000	Other Installation, Maintenance, and Repair Occupations	60,091	65,932	10%	7,099	0.95	\$21.03	\$43,746.28	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 1 - Golden Plains Region  
 (Counties: Logan, Morgan, Phillips, Sedgwick, Washington, Yuma)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	45-2000	Agricultural Workers	2,328	2,407	3%	371	10.91	\$11.08	\$23,054.83	1) Farmworkers and Laborers, Crop, Nursery, and Greenhouse; 2) Animal Breeders; 3) Agricultural Equipment Operators
	41-2000	Retail Sales Workers	1,780	1,881	6%	321	1.05	\$10.70	\$22,262.72	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	53-3000	Motor Vehicle Operators**	1,259	1,334	6%	158	1.37	\$18.57	\$38,625.59	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	47-2000	Construction Trades Workers**	1,167	1,273	9%	146	1.03	\$15.83	\$32,929.96	1) Carpenters; 2) Construction Laborers; 3) Electricians
Statewide Occupations (Regional Data)	53-7000	Material Moving Workers	1,086	1,134	4%	161	1.03	\$12.56	\$26,129.80	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	53-3000	Motor Vehicle Operators	1,275	1,341	5%	158	1.35	\$17.32	\$36,026.43	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	47-2000	Construction Trades Workers	1,167	1,273	9%	146	1.03	\$15.83	\$32,929.96	1) Carpenters; 2) Construction Laborers; 3) Electricians
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	1,164	1,217	5%	100	1.34	\$18.16	\$37,771.36	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	49-9000	Other Installation, Maintenance, and Repair Occupations	914	960	5%	99	1.35	\$16.88	\$35,106.67	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	13-1000	Business Operations Specialists	578	619	7%	63	0.54	\$27.21	\$56,595.22	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	29-1000	Health Diagnosing and Treating Practitioners	927	961	4%	51	0.77	\$33.72	\$70,144.78	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	13-2000	Financial Specialists	458	486	6%	45	0.76	\$26.33	\$54,766.76	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	312	334	7%	26	0.34	\$29.22	\$60,770.81	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 2 - Northern Colorado Region  
 (Counties: Larimer, Weld)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	35-3000	Food and Beverage Serving Workers	16,604	18,489	11%	3,564	1.07	\$9.88	\$20,544.82	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	41-2000	Retail Sales Workers	18,367	20,032	9%	3,322	1.09	\$11.13	\$23,154.54	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	47-2000	Construction Trades Workers**	17,533	19,614	12%	2,274	1.54	\$18.76	\$39,013.68	1) Carpenters; 2) Construction Laborers; 3) Electricians
	53-3000	Motor Vehicle Operators**	10,191	11,422	12%	1,402	1.14	\$18.55	\$38,591.92	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	29-1000	Health Diagnosing and Treating Practitioners**	9,797	10,988	12%	707	0.86	\$36.33	\$75,571.14	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	17,533	19,614	12%	2,274	1.54	\$18.76	\$39,013.68	1) Carpenters; 2) Construction Laborers; 3) Electricians
	53-3000	Motor Vehicle Operators	9,912	11,112	12%	1,375	1.09	\$18.63	\$38,747.78	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	53-7000	Material Moving Workers	7,913	9,010	14%	1,318	0.79	\$14.79	\$30,764.97	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	13-1000	Business Operations Specialists	10,582	11,642	10%	1,226	0.98	\$30.60	\$63,651.41	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	49-9000	Other Installation, Maintenance, and Repair Occupations	7,165	8,210	15%	924	1.12	\$20.34	\$42,317.28	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	9,201	10,037	9%	883	1.08	\$22.32	\$46,435.69	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	29-1000	Health Diagnosing and Treating Practitioners	9,797	10,988	12%	707	0.86	\$36.33	\$75,571.14	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	15-1100	Computer Occupations	7,572	8,419	11%	692	0.83	\$37.66	\$78,323.41	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
13-2000	Financial Specialists	4,565	5,094	12%	510	0.77	\$30.58	\$63,611.40	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers	

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
Economic Development Region 3 - Denver Region  
(Counties: Adams, Arapahoe, Boulder, Broomfield, Clear Creek, Denver, Douglas, Gilpin, Jefferson)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	35-3000	Food and Beverage Serving Workers	87,584	96,876	11%	18,494	0.98	\$10.28	\$21,390.11	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	41-2000	Retail Sales Workers	98,483	103,612	5%	16,697	0.97	\$11.33	\$23,575.01	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	13-1000	Business Operations Specialists**	97,740	105,920	8%	10,865	1.54	\$33.97	\$70,648.76	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	43-4000	Information and Record Clerks	75,778	81,364	7%	10,519	1.09	\$17.69	\$36,802.62	1) Cargo and Freight Agents; 2) Receptionists and Information Clerks; 3) Court, Municipal, and License Clerks
	47-2000	Construction Trades Workers**	75,212	82,840	10%	9,408	1.13	\$19.24	\$40,026.16	1) Carpenters; 2) Construction Laborers; 3) Electricians
	15-1100	Computer Occupations**	92,780	102,742	11%	8,311	1.75	\$44.05	\$91,632.08	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
	13-2000	Financial Specialists**	52,381	57,108	9%	5,545	1.50	\$34.39	\$71,533.60	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	29-1000	Health Diagnosing and Treating Practitioners**	63,509	71,627	13%	4,654	0.97	\$39.40	\$81,957.21	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	13-1000	Business Operations Specialists	97,740	105,920	8%	10,865	1.54	\$33.97	\$70,648.76	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	47-2000	Construction Trades Workers	75,212	82,840	10%	9,408	1.13	\$19.24	\$40,026.16	1) Carpenters; 2) Construction Laborers; 3) Electricians
	15-1100	Computer Occupations	92,780	102,742	11%	8,311	1.75	\$44.05	\$91,632.08	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
	53-7000	Material Moving Workers	44,191	48,846	11%	7,026	0.75	\$14.61	\$30,388.80	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	53-3000	Motor Vehicle Operators	46,064	50,226	9%	6,089	0.85	\$18.44	\$38,361.63	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	13-2000	Financial Specialists	52,381	57,108	9%	5,545	1.50	\$34.39	\$71,533.60	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	29-1000	Health Diagnosing and Treating Practitioners	63,509	71,627	13%	4,654	0.97	\$39.40	\$81,957.21	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	46,796	51,380	10%	4,549	0.96	\$25.17	\$52,353.25	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
49-9000	Other Installation, Maintenance, and Repair Occupations	32,324	35,517	10%	3,823	0.84	\$21.87	\$45,479.70	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers	

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 4 - Pikes Peak Region  
 (Counties: El Paso, Park, Teller)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	35-3000	Food and Beverage Serving Workers	16,377	18,168	11%	3,468	0.94	\$9.59	\$19,950.00	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	41-2000	Retail Sales Workers	19,725	20,877	6%	3,426	1.01	\$11.15	\$23,195.02	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	47-2000	Construction Trades Workers**	14,833	16,239	9%	1,814	1.13	\$17.87	\$37,164.50	1) Carpenters; 2) Construction Laborers; 3) Electricians
	15-1100	Computer Occupations**	15,485	16,422	6%	1,219	1.43	\$43.86	\$91,221.20	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers**	12,347	13,381	8%	1,152	1.28	\$21.50	\$44,716.53	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	29-1000	Health Diagnosing and Treating Practitioners**	12,485	14,405	15%	988	1.01	\$38.10	\$79,256.99	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	13-2000	Financial Specialists**	6,447	7,041	9%	685	0.95	\$33.15	\$68,946.28	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	14,833	16,239	9%	1,814	1.13	\$17.87	\$37,164.50	1) Carpenters; 2) Construction Laborers; 3) Electricians
	13-1000	Business Operations Specialists	15,368	16,401	7%	1,655	1.23	\$32.92	\$68,468.36	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	15-1100	Computer Occupations	15,485	16,422	6%	1,219	1.43	\$43.86	\$91,221.20	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	12,285	13,349	9%	1,156	1.28	\$21.82	\$45,394.36	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	53-3000	Motor Vehicle Operators	9,128	9,641	6%	1,132	0.84	\$14.16	\$29,457.37	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	29-1000	Health Diagnosing and Treating Practitioners	12,485	14,405	15%	988	1.01	\$38.10	\$79,256.99	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	49-9000	Other installation, Maintenance, and Repair Occupations	6,531	7,086	8%	758	0.87	\$19.08	\$39,689.66	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	53-7000	Material Moving Workers	4,766	5,158	8%	730	0.41	\$13.50	\$28,074.14	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	13-2000	Financial Specialists	6,447	7,041	9%	685	0.95	\$33.15	\$68,946.28	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 5 - Central Plains Region  
 (Counties: Cheyenne, Elbert, Kit Carson, Lincoln)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	717	774	8%	135	1.14	\$10.91	\$22,702.37	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	47-2000	Construction Trades Workers**	853	912	7%	105	1.94	\$16.08	\$33,446.44	1) Carpenters; 2) Construction Laborers; 3) Electricians
	35-3000	Food and Beverage Serving Workers	505	551	9%	104	0.87	\$10.42	\$21,667.91	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	45-2000	Agricultural Workers	517	543	5%	85	6.51	\$11.40	\$23,710.69	1) Farmworkers and Laborers, Crop, Nursery, and Greenhouse; 2) Animal Breeders; 3) Agricultural Equipment Operators
	43-4000	Information and Record Clerks	331	358	8%	46	0.75	\$15.02	\$31,241.27	1) Cargo and Freight Agents; 2) Receptionists and Information Clerks; 3) Court, Municipal, and License Clerks
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	853	912	7%	105	1.94	\$16.08	\$33,446.44	1) Carpenters; 2) Construction Laborers; 3) Electricians
	53-3000	Motor Vehicle Operators	380	405	7%	48	1.08	\$16.94	\$35,235.40	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	510	531	4%	43	1.55	\$20.66	\$42,962.56	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	49-9000	Other Installation, Maintenance, and Repair Occupations	309	346	12%	39	1.29	\$18.47	\$38,407.54	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	13-1000	Business Operations Specialists	298	334	12%	36	0.76	\$29.43	\$61,214.53	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	53-7000	Material Moving Workers	216	239	11%	35	0.57	\$13.14	\$27,329.64	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	13-2000	Financial Specialists	222	242	9%	24	1.00	\$27.86	\$57,942.29	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	180	204	13%	17	0.54	\$34.32	\$71,377.04	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers
29-1000	Health Diagnosing and Treating Practitioners	313	321	3%	17	0.68	\$34.41	\$71,575.65	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists	

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 6 - Southeast Colorado Region  
 (Counties: Baca, Bent, Crowley, Kiowa, Otero, Prowers)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	1,045	1,093	5%	188	1.17	\$10.61	\$22,076.01	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	45-2000	Agricultural Workers	850	914	8%	148	7.98	\$10.58	\$22,014.32	1) Farmworkers and Laborers, Crop, Nursery, and Greenhouse; 2) Animal Breeders; 3) Agricultural Equipment Operators
	37-2000	Building Cleaning and Pest Control Workers	579	623	8%	87	1.34	\$10.08	\$20,968.11	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	29-1000	Health Diagnosing and Treating Practitioners**	663	712	7%	41	1.11	\$32.07	\$66,695.28	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	805	845	5%	70	1.82	\$18.48	\$38,436.05	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	53-3000	Motor Vehicle Operators	544	551	1%	65	1.08	\$15.63	\$32,508.55	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	47-2000	Construction Trades Workers	454	469	3%	51	0.73	\$15.40	\$32,030.08	1) Carpenters; 2) Construction Laborers; 3) Electricians
	53-7000	Material Moving Workers	335	357	7%	51	0.63	\$12.01	\$24,981.30	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	49-9000	Other Installation, Maintenance, and Repair Occupations	402	423	5%	43	1.16	\$16.11	\$33,503.82	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	29-1000	Health Diagnosing and Treating Practitioners	663	712	7%	41	1.11	\$32.07	\$66,695.28	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	13-1000	Business Operations Specialists	286	300	5%	30	0.50	\$25.83	\$53,717.01	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	13-2000	Financial Specialists	242	247	2%	22	0.74	\$26.09	\$54,277.12	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
15-1100	Computer Occupations	178	193	8%	15	0.38	\$28.11	\$58,464.43	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers	

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 7 - Pueblo Region  
 (County: Pueblo)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	4,379	4,593	5%	753	1.19	\$10.65	\$22,145.32	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	39-9000	Other Personal Care and Service Workers	2,361	2,858	21%	477	1.28	\$9.85	\$20,494.25	1) Childcare Workers; 2) Personal Care Aides; 3) Recreation Workers
	29-1000	Health Diagnosing and Treating Practitioners**	4,045	4,459	10%	276	1.67	\$35.52	\$73,874.02	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	31-1000	Nursing, Psychiatric, and Home Health Aides	1,770	2,018	14%	259	1.63	\$12.24	\$25,448.86	1) Nursing Assistants; 2) Home Health Aides; 3) Psychiatric Aides
	53-3000	Motor Vehicle Operators**	1,768	1,935	9%	233	0.92	\$15.35	\$31,918.87	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	2,620	2,738	5%	298	1.03	\$16.17	\$33,642.26	1) Carpenters; 2) Construction Laborers; 3) Electricians
	29-1000	Health Diagnosing and Treating Practitioners	4,045	4,459	10%	276	1.67	\$35.52	\$73,874.02	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	53-3000	Motor Vehicle Operators	1,735	1,919	11%	235	0.90	\$16.68	\$34,684.99	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	53-7000	Material Moving Workers	1,564	1,672	7%	231	0.71	\$15.41	\$32,042.73	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	2,358	2,476	5%	198	1.28	\$22.73	\$47,279.74	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	13-1000	Business Operations Specialists	1,636	1,762	8%	181	0.71	\$29.22	\$60,779.16	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	49-9000	Other Installation, Maintenance, and Repair Occupations	1,593	1,702	7%	176	1.12	\$20.04	\$41,674.78	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	13-2000	Financial Specialists	818	866	6%	80	0.63	\$27.92	\$58,063.95	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	838	922	10%	75	0.43	\$32.72	\$68,050.20	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi



Regional Labor Market Information Top Occupations  
 Economic Development Region 8 - San Luis Valley Region  
 (Counties: Alamosa, Conejos, Costilla, Mineral, Rio Grande, Saguache)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	45-2000	Agricultural Workers	1,409	1,471	4%	230	10.30	\$10.47	\$21,768.66	1) Farmworkers and Laborers, Crop, Nursery, and Greenhouse; 2) Animal Breeders; 3) Agricultural Equipment Operators
	41-2000	Retail Sales Workers	1,157	1,243	7%	213	1.07	\$10.99	\$22,865.55	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	35-3000	Food and Beverage Serving Workers	804	885	10%	168	0.82	\$10.42	\$21,677.61	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	37-2000	Building Cleaning and Pest Control Workers	628	691	10%	98	1.19	\$10.15	\$21,121.80	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	29-1000	Health Diagnosing and Treating Practitioners**	600	655	9%	40	0.82	\$34.39	\$71,539.98	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	781	826	6%	94	1.03	\$15.55	\$32,354.16	1) Carpenters; 2) Construction Laborers; 3) Electricians
	53-3000	Motor Vehicle Operators	721	760	5%	92	1.18	\$16.72	\$34,776.64	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	53-7000	Material Moving Workers	559	604	8%	87	0.85	\$12.29	\$25,557.24	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	798	855	7%	75	1.46	\$19.16	\$39,861.30	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	49-9000	Other Installation, Maintenance, and Repair Occupations	513	564	10%	61	1.23	\$16.13	\$33,546.18	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	13-1000	Business Operations Specialists	369	405	10%	42	0.54	\$27.10	\$56,375.21	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	29-1000	Health Diagnosing and Treating Practitioners	600	655	9%	40	0.82	\$34.39	\$71,539.98	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	13-2000	Financial Specialists	278	298	7%	28	0.72	\$25.72	\$53,491.94	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	200	220	10%	18	0.34	\$28.21	\$58,667.55	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 9 - Southwest Region  
 (Counties: Archuleta, Dolores, La Plata, Montezuma, San Juan)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	3,601	3,786	5%	613	1.42	\$11.80	\$24,539.42	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	39-9000	Other Personal Care and Service Workers	1,485	1,757	18%	293	1.14	\$11.36	\$23,624.27	1) Childcare Workers; 2) Personal Care Aides; 3) Recreation Workers
	43-4000	Information and Record Clerks	1,657	1,763	6%	227	0.94	\$15.21	\$31,630.13	1) Cargo and Freight Agents; 2) Receptionists and Information Clerks; 3) Court, Municipal, and License Clerks
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers**	1,522	1,652	9%	145	1.23	\$20.37	\$42,376.50	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	29-1000	Health Diagnosing and Treating Practitioners**	1,794	2,036	13%	134	1.11	\$36.24	\$75,369.09	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	3,035	3,069	1%	328	1.67	\$18.62	\$38,737.97	1) Carpenters; 2) Construction Laborers; 3) Electricians
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	1,509	1,635	8%	142	1.22	\$20.80	\$43,261.85	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	53-3000	Motor Vehicle Operators	1,069	1,132	6%	135	0.77	\$19.00	\$39,523.56	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	29-1000	Health Diagnosing and Treating Practitioners	1,794	2,036	13%	134	1.11	\$36.24	\$75,369.09	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	53-7000	Material Moving Workers	812	883	9%	125	0.54	\$14.87	\$30,937.88	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	49-9000	Other Installation, Maintenance, and Repair Occupations	1,017	1,090	7%	114	1.04	\$19.46	\$40,478.37	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	13-1000	Business Operations Specialists	1,008	1,100	9%	114	0.64	\$28.72	\$59,746.29	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	13-2000	Financial Specialists	825	875	6%	80	0.92	\$29.27	\$60,875.56	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	584	653	12%	54	0.44	\$34.41	\$71,564.04	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 10 - Central Western Slope Region  
 (Counties: Delta, Gunnison, Hinsdale, Montrose, Ouray, San Miguel)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	3,498	3,730	7%	608	1.39	\$11.63	\$24,194.49	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	35-3000	Food and Beverage Serving Workers	2,557	2,813	10%	534	1.13	\$9.89	\$20,571.78	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	47-2000	Construction Trades Workers**	3,220	3,375	5%	375	1.82	\$17.80	\$37,014.45	1) Carpenters; 2) Construction Laborers; 3) Electricians
	39-9000	Other Personal Care and Service Workers	1,914	2,238	17%	365	1.44	\$11.16	\$23,221.90	1) Childcare Workers; 2) Personal Care Aides; 3) Recreation Workers
	35-2000	Cooks and Food Preparation Workers	1,587	1,706	7%	263	1.60	\$11.33	\$23,556.20	1) Cooks, Restaurant; 2) Food Preparation Workers; 3) Cooks, Institution and Cafeteria
	37-2000	Building Cleaning and Pest Control Workers	1,657	1,815	10%	257	1.35	\$11.74	\$24,420.86	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	43-4000	Information and Record Clerks	1,459	1,584	9%	211	0.84	\$14.45	\$30,060.86	1) Cargo and Freight Agents; 2) Receptionists and Information Clerks; 3) Court, Municipal, and License Clerks
	29-1000	Health Diagnosing and Treating Practitioners**	1,653	1,820	10%	111	0.98	\$35.28	\$73,376.67	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	3,220	3,375	5%	375	1.82	\$17.80	\$37,014.45
53-3000		Motor Vehicle Operators	1,095	1,165	6%	139	0.79	\$17.54	\$36,476.52	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
49-9000		Other Installation, Maintenance, and Repair Occupations	1,151	1,262	10%	137	1.19	\$19.18	\$39,900.06	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
53-7000		Material Moving Workers	892	953	7%	135	0.58	\$13.93	\$28,972.97	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
29-1000		Health Diagnosing and Treating Practitioners	1,653	1,820	10%	111	0.98	\$35.28	\$73,376.67	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
25-2000		Preschool, Primary, Secondary, and Special Education School Teachers	1,348	1,374	2%	108	1.02	\$20.97	\$43,612.08	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
13-1000		Business Operations Specialists	870	966	11%	103	0.56	\$27.68	\$57,576.70	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
13-2000		Financial Specialists	741	797	8%	75	0.83	\$27.91	\$58,046.96	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
15-1100		Computer Occupations	438	487	11%	40	0.33	\$32.66	\$67,923.68	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 11 - Northwest Colorado Region  
 (Counties: Garfield, Mesa, Moffat, Rio Blanco, Routt)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	8,713	8,975	3%	1,424	1.27	\$11.79	\$24,524.05	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	37-2000	Building Cleaning and Pest Control Workers	3,364	3,623	8%	503	1.03	\$11.96	\$24,877.18	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	29-1000	Health Diagnosing and Treating Practitioners**	5,635	6,356	13%	414	1.30	\$38.17	\$79,397.91	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers**	3,927	4,258	8%	365	1.20	\$21.56	\$44,845.80	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	8,221	8,432	3%	902	1.73	\$18.19	\$37,833.53	1) Carpenters; 2) Construction Laborers; 3) Electricians
	29-1000	Health Diagnosing and Treating Practitioners	5,635	6,356	13%	414	1.30	\$38.17	\$79,397.91	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	53-3000	Motor Vehicle Operators	3,585	3,624	1%	408	0.93	\$19.27	\$40,091.01	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	49-9000	Other Installation, Maintenance, and Repair Occupations	3,466	3,710	7%	390	1.33	\$18.90	\$39,313.85	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	53-7000	Material Moving Workers	2,491	2,680	8%	375	0.62	\$15.99	\$33,268.86	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	3,883	4,232	9%	364	1.19	\$21.87	\$45,489.22	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	13-1000	Business Operations Specialists	3,289	3,514	7%	355	0.77	\$28.56	\$59,411.73	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	13-2000	Financial Specialists	1,915	2,048	7%	193	0.81	\$28.09	\$58,432.20	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	1,472	1,613	10%	129	0.41	\$32.70	\$68,021.05	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 12 - Rocky Mountain Resort Region  
 (Counties: Eagle, Grand, Jackson, Pitkin, Summit)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	7,040	7,427	5%	1,186	1.49	\$13.65	\$28,402.25	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	37-2000	Building Cleaning and Pest Control Workers	5,276	5,531	5%	762	2.21	\$14.19	\$29,511.05	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	43-4000	Information and Record Clerks	3,577	3,804	6%	528	1.09	\$16.19	\$33,675.52	1) Cargo and Freight Agents; 2) Receptionists and Information Clerks; 3) Court, Municipal, and License Clerks
	35-2000	Cooks and Food Preparation Workers	3,158	3,402	8%	524	1.71	\$14.86	\$30,911.87	1) Cooks, Restaurant; 2) Food Preparation Workers; 3) Cooks, Institution and Cafeteria
	29-1000	Health Diagnosing and Treating Practitioners**	2,036	2,326	14%	155	0.67	\$39.76	\$82,691.62	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	6,186	6,338	2%	680	1.84	\$19.37	\$40,292.16	1) Carpenters; 2) Construction Laborers; 3) Electricians
	49-9000	Other Installation, Maintenance, and Repair Occupations	3,451	3,686	7%	387	1.86	\$20.74	\$43,136.78	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	53-3000	Motor Vehicle Operators	1,950	2,107	8%	254	0.76	\$18.89	\$39,292.90	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	13-1000	Business Operations Specialists	2,146	2,320	8%	242	0.72	\$30.11	\$62,624.31	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	53-7000	Material Moving Workers	1,147	1,270	11%	182	0.41	\$17.20	\$35,784.10	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	1,803	1,967	9%	173	0.78	\$24.70	\$51,382.23	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	29-1000	Health Diagnosing and Treating Practitioners	2,036	2,326	14%	155	0.67	\$39.76	\$82,691.62	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	13-2000	Financial Specialists	1,470	1,561	6%	146	0.87	\$29.74	\$61,857.42	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	854	939	10%	76	0.34	\$35.48	\$73,804.10	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 13 - Upper Arkansas Region  
 (Counties: Chaffee, Custer, Fremont, Lake)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	2,116	2,316	9%	387	1.40	\$11.42	\$23,749.05	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	35-3000	Food and Beverage Serving Workers	1,484	1,638	10%	311	1.06	\$9.97	\$20,745.49	1) Combined Food Preparation and Serving Workers; 2) Waiters and Waitresses; 3) Counter Attendants, Cafeteria, Food, Concession, and Coffee Shop
	47-2000	Construction Trades Workers**	1,764	1,891	7%	213	1.65	\$17.40	\$36,200.44	1) Carpenters; 2) Construction Laborers; 3) Electricians
	37-2000	Building Cleaning and Pest Control Workers	863	979	13%	141	1.18	\$11.51	\$23,950.18	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	43-4000	Information and Record Clerks	911	991	9%	128	0.85	\$14.56	\$30,293.89	1) Cargo and Freight Agents; 2) Receptionists and Information Clerks; 3) Court, Municipal, and License Clerks
	21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	717	805	12%	95	1.80	\$20.29	\$42,196.43	1) Substance Abuse, Behavioral Disorder, and Mental Health Counselors; 2) Child, Family, and School Social Workers; 3) Healthcare Social Workers
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	1,764	1,891	7%	213	1.65	\$17.40	\$36,200.44	1) Carpenters; 2) Construction Laborers; 3) Electricians
	53-3000	Motor Vehicle Operators	751	815	9%	99	0.89	\$17.57	\$36,536.58	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	1,103	1,161	5%	97	1.39	\$20.03	\$41,666.85	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	13-1000	Business Operations Specialists	691	759	10%	79	0.71	\$27.80	\$57,828.72	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	49-9000	Other Installation, Maintenance, and Repair Occupations	611	673	10%	73	1.03	\$18.17	\$37,788.32	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	53-7000	Material Moving Workers	436	482	11%	68	0.48	\$14.20	\$29,537.86	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	29-1000	Health Diagnosing and Treating Practitioners	965	1,025	6%	60	0.90	\$32.00	\$66,551.43	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	13-2000	Financial Specialists	440	477	8%	46	0.81	\$26.33	\$54,773.95	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	325	370	14%	32	0.41	\$33.98	\$70,675.59	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

Regional Labor Market Information Top Occupations  
 Economic Development Region 14 - Raton Basin Region  
 (Counties: Huerfano, Las Animas)

The following workforce data is an example of labor market information. Other workforce or economic data can be utilized to identify high wage, high skill, and in-demand occupations.

	Standard Occupational Classification (SOC) Code	Occupation Group	2019 Jobs	2024 Jobs	2019 - 2024 % Change	Annual Openings	2024 Location Quotient	Median Hourly Earnings	Median Annual Earnings	Example Occupations
Regional Occupations	41-2000	Retail Sales Workers	582	629	8%	109	1.47	\$10.96	\$22,797.84	1) Parts Salespersons; 2) Cashiers 3) Counter and Rental Clerks
	39-9000	Other Personal Care and Service Workers	301	405	35%	71	1.63	\$9.79	\$20,360.79	1) Childcare Workers; 2) Personal Care Aides; 3) Recreation Workers
	37-2000	Building Cleaning and Pest Control Workers	321	361	12%	52	1.68	\$9.76	\$20,295.16	1) Janitors and Cleaners, Except Maids and Housekeeping Cleaners; 2) Pesticide Handlers, Sprayers, and Applicators; 3) Building Cleaning Workers, All Other
	29-1000	Health Diagnosing and Treating Practitioners**	368	414	13%	27	1.39	\$32.42	\$67,425.46	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
Statewide Occupations (Regional Data)	47-2000	Construction Trades Workers	296	284	(4%)	32	0.96	\$15.38	\$31,988.25	1) Carpenters; 2) Construction Laborers; 3) Electricians
	29-1000	Health Diagnosing and Treating Practitioners	368	414	13%	27	1.39	\$32.42	\$67,425.46	1) Registered Nurses; 2) Veterinarian; 3) Physical Therapists
	53-3000	Motor Vehicle Operators	232	227	(2%)	26	0.95	\$16.13	\$33,550.49	1) Heavy and Tractor-Trailer Truck Drivers; 2) Light Truck or Delivery Services Drivers; 3) Bus Drivers, School, or Special Agent
	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	318	324	2%	26	1.49	\$19.79	\$41,167.31	1) Preschool Teachers; 2) Elementary School Teachers; 3) Secondary School Teachers
	49-9000	Other Installation, Maintenance, and Repair Occupations	199	220	11%	24	1.29	\$16.65	\$34,630.40	1) Industrial Machinery Mechanics; 2) Farm Equipment Mechanics and Service Technicians; 3) Heating, Air Conditioning, and Refrigeration Mechanics and Installers
	53-7000	Material Moving Workers	130	135	4%	19	0.51	\$13.33	\$27,728.04	1) Crane and Tower Operators; 2) Industrial Truck and Tractor Operators; 3) Machine Feeder and Offbearers
	13-1000	Business Operations Specialists	132	139	5%	14	0.50	\$26.08	\$54,243.84	1) Business Operations Specialists; 2) Human Resources Specialists; 3) Buyers and Purchasing Agents, Farm Products
	13-2000	Financial Specialists	120	129	8%	12	0.84	\$25.83	\$53,734.60	1) Accountants and Auditors; 2) Financial Analysts; 3) Loan Officers
	15-1100	Computer Occupations	80	82	3%	6	0.34	\$29.52	\$61,402.06	1) Software Developers; 2) Computer User Support Specialists; 3) Web Developers

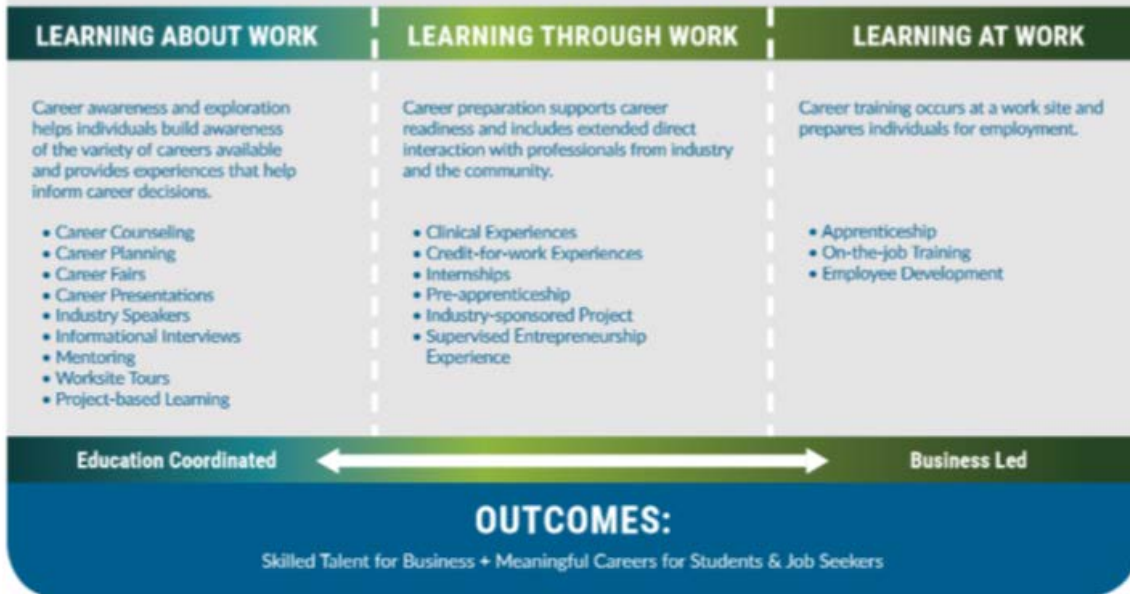
\*\* Indicates Regional Occupations that are also Statewide Areas of Focus

Source of Labor Market Information: Emsi

## Work-Based Learning Continuum

### COLORADO'S WORK-BASED LEARNING CONTINUUM

Work-based learning is a continuum of activities that occur, in part or in whole, in the workplace, providing the learner with hands-on, real world experience.





## Tools for Obtaining Public Input

The following table<sup>1</sup> lists some basic in-person tools for obtaining public input:

Tool	# of Participants	Best Suited For
<a href="#"><u>Interviews</u></a>	Individual or Small Group	Learning about individual perspectives on issues
<a href="#"><u>Focus Groups</u></a>	Small groups (15 or fewer)	Exploring attitudes and opinions in depth
<a href="#"><u>Study Circles</u></a>	Small (5–20)	Information sharing and focused dialogue
<a href="#"><u>Public Meetings/Hearings</u></a>	Large groups	Presenting information to and receiving comment or feedback from the public
<a href="#"><u>Public Workshops</u></a>	Multiple small groups (8-15 in each small group)	Exchanging information and/or problem-solving in small groups
<a href="#"><u>Appreciative Inquiry Process</u></a>	Varies, but usually involves “whole system”	Envisioning shared future, not making decisions
<a href="#"><u>World Cafes</u></a>	Very adaptable, involving multiple simultaneous conversations (4-8 in each small group)	Fostering open discussion of a topic and identifying areas of common ground
<a href="#"><u>Charrettes</u></a>	Small to medium	Generating comprehensive plans or alternatives
<a href="#"><u>Electronic Democracy</u></a>	Unlimited	Enabling the direct participation of geographically dispersed public at their convenience
<a href="#"><u>Computer-Assisted Process</u></a>	Large	Receiving real-time quantitative feedback to ideas or proposals

<sup>1</sup> Table excerpt taken from <https://www.epa.gov/international-cooperation/public-participation-guide-tools-generate-and-obtain-public-input>

**E. 2019-2020 Secondary Performance Metric Definitions (Perkins FY 2020-2021)**

**2019-2020 Secondary Performance Metric Definitions  
(Perkins Fiscal Year 2020-2021)**

**Enrollment data used will be from academic year 2019-2020  
Placement data used will be from academic year 2018-2019**

**Secondary Student Definitions:**

- Participants** – A secondary student who has completed one (1) or more courses within any CTE program where course is defined as one Carnegie Unit of credit.
- Concentrators** – A secondary student who has completed two (2) or more Carnegie Units within a CTE program as defined in the program approval documentation. (Typically, one Carnegie Unit is the equivalent of one year-long course.)
- Completers** – A secondary student who has completed the required minimum courses within a CTE program as defined in the program approval documentation.

**\*\*Note: These are the definitions that will be submitted to the U.S. Department of Education for approval and are not final at this point\*\***

METRIC	METRIC DEFINITION
<p align="center"><b>(1S1) Four-Year Graduation Rate</b></p>	<p><b>Numerator:</b> Number of CTE <b>concentrators and completers</b> who, in their 4<sup>th</sup> high school year, have met locally defined requirements for a high school diploma in the reporting year, and were included in the State’s computation of its four-year adjusted graduation rate pursuant to Section 8101(25) of the ESSA.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators and completers</b> who, in their 4<sup>th</sup> high school year in the reporting year, were included in the State’s computation of its four-year adjusted graduation rate pursuant to Section 8101(25) of the ESSA.</p>
<p align="center"><b>(1S2) Extended Graduation Rate</b></p>	<p><b>Numerator:</b> Number of CTE <b>concentrators and completers</b> who, in the reporting year, were included as graduated in the State’s computation of its extended-year adjusted graduation rate as described in Section 8101(23) of the ESSA.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators and completers</b> who, in the reporting year, were included in the State’s computation of its extended-year adjusted graduation rate as defined in the State’s Consolidated State Plan pursuant to Section 8101(23) of the ESSA.</p>
<p align="center"><b>(2S1) Academic Proficiency In Reading/Language Arts</b></p>	<p><b>Numerator:</b> Number of CTE <b>concentrators and completers</b> in their 4th or greater high school year who have met the ESSA-proficient level on the Statewide high school <b>Reading/Language Arts</b> assessment (11<sup>th</sup> grade SAT) and who, in the reporting year, have met locally defined requirements for a high school diploma.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators and completers</b> in their 4th or greater high school year who took the assessment in <b>Reading/Language Arts</b> (11<sup>th</sup> grade SAT) and who, in the reporting year, have met locally defined requirements for a high school diploma.</p>

<p>(2S2) <b>Academic Proficiency in Mathematics</b></p>	<p><b>Numerator:</b> Number of CTE <b>concentrators and completers</b> in their 4th or greater high school year who have met the ESSA-proficient level on the Statewide high school <b>Mathematics</b> assessment (11<sup>th</sup> grade SAT) and who, in the reporting year, have met locally defined requirements for a high school diploma.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators and completers</b> in their 4th or greater high school year who took the assessment in <b>Mathematics</b> (11<sup>th</sup> grade SAT) and who, in the reporting year, have met locally defined requirements for a high school diploma.</p>
<p>(2S3) <b>Academic Proficiency in Science</b></p>	<p><b>Numerator:</b> Number of CTE <b>concentrators and completers</b> in their 4th or greater high school year who have met the ESSA-proficient level on the Statewide high school <b>Science</b> assessment (11<sup>th</sup> grade CMAS) and who, in the reporting year, have met locally defined requirements for a high school diploma.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators and completers</b> in their 4th or greater high school year who took the assessment in <b>Science</b> (11<sup>th</sup> grade CMAS) and who, in the reporting year, have met locally defined requirements for a high school diploma.</p>
<p>(3S1) <b>Post-Program Placement</b></p>	<p><b>Numerator:</b> Number of previous year CTE <b>concentrators and completers</b> who graduated high school and are placed in employment, postsecondary education, apprenticeship, military service, AmeriCorps or Peace Corps two quarters after the end of the academic reporting year (i.e., CTE concentrators are assessed between October 1, and December 31 following high school graduation).</p> <p><b>Denominator:</b> Number of previous year CTE <b>concentrators and completers</b> placement respondents who completed high school that academic year (excluding respondents 'unemployed and not actively seeking employment').</p>
<p>(4S1) <b>Non-Traditional Concentration</b></p>	<p><b>Numerator:</b> Number of CTE <b>concentrators</b> from underrepresented gender groups enrolled in non-traditional programs during the reporting year.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators</b> enrolled in non-traditional programs during the reporting year.</p>
<p>(5S3) <b>Program Quality - Participated in Work-Based Learning</b></p>	<p><b>Numerator:</b> Total number of CTE <b>concentrators</b> graduating from high school during the current academic year having participated in work-based learning* in any year as part of the CTE program.</p> <p><b>Denominator:</b> Total number of CTE <b>concentrators</b> graduating from high school during the current academic year.</p> <p><i>*WBL includes:</i>  <i>Apprenticeship</i>  <i>On-the-job training</i>  <i>Clinical experience</i>  <i>Credit-for-work experience</i>  <i>Internship</i>  <i>Pre-apprenticeship</i>  <i>School-based enterprise managed by students</i></p>

**F. 2019-2020 Postsecondary Perkins Performance Metric Definitions (Perkins FY 2020-2021)**

**2019-2020 Postsecondary Perkins Performance Metric Definitions  
(Perkins Fiscal Year 2020-2021)**

**Enrollment data used will be from academic year 2019-2020  
Placement data used will be from academic year 2018-2019**

**\*\*Note: These are the definitions that will be submitted to the U.S. Department of Education for approval and are not final at this point.\*\***

**Postsecondary Student Definitions:**

**Participants** – A postsecondary student who has completed at least one (1) CTE course in a CTE program (defined by CIP code) within the reporting year.

**Concentrators** – A postsecondary student who, within the reporting year, has:

- earned at least twelve (12) CTE credits within a *single* CTE program (defined by CIP code), or
- completed such a program if the program is twelve (12) or fewer credits.

**Completers** – A postsecondary student who has completed the required minimum credits within a CTE program and has received a certificate or degree.

<b>Metric</b>	<b>Metric Definition</b>
<b>(1P1) Postsecondary Retention and Placement</b>	<p><b>Numerator:</b> Number of previous year CTE <b>completers</b> who were placed in employment, continuing education, apprenticeship, military service, AmeriCorps or Peace Corps programs two quarters after the end of the academic reporting year (i.e., for students who completed a CTE program in AY18-19, what were they doing between October 1, 2019 and December 31, 2019).</p> <p><b>Denominator:</b> Number of respondent CTE <b>completers</b> from the previous reporting year (excluding those unemployed not seeking employment).</p>
<b>(2P1) Earned Recognized Postsecondary Credential</b>	<p><b>Numerator:</b> Number of CTE <b>concentrators or completers</b> who received a recognized postsecondary credential* during participation in or within one year of program completion.</p> <p><b>Denominator:</b> Total of CTE <b>concentrators or completers</b> who completed an approved CTE program during the previous reporting year.</p> <p>*Recognized postsecondary credential to include an industry-recognized certificate/certification including certificates earned for completion of CTE program at a community or technical college, a certificate of completion of an apprenticeship, an occupational licensure, an associate degree, or a bachelor's degree.</p>
<b>(3P1) Non-Traditional Program Concentration</b>	<p><b>Numerator:</b> Number of CTE <b>concentrators</b> from underrepresented gender groups enrolled in non-traditional programs during the reporting year.</p> <p><b>Denominator:</b> Number of CTE <b>concentrators</b> enrolled in non-traditional programs during the reporting year.</p>

## **G. Responses to Public Comments**