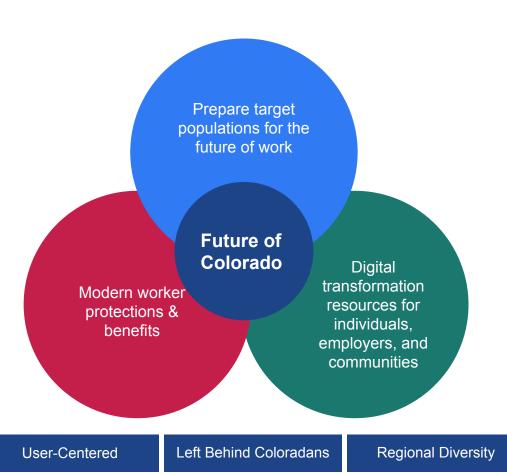


A new path forward Presentation to DSEDP



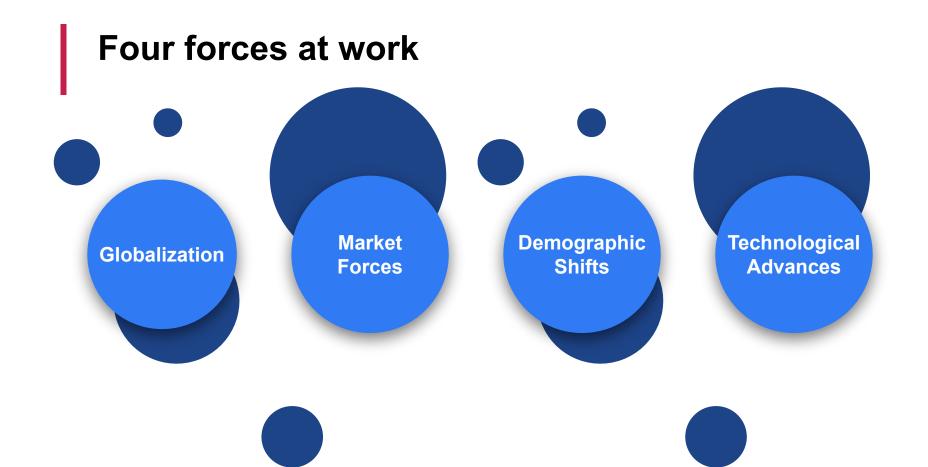
The Office

Vision: A future where all Coloradan workers have access to education and skill training that is connected to meaningful and sustainable employment.



The future of work refers to the impact of globalization, technological advances, changing demographics, and market forces on the work we do and how we do it.





Globalization & Market Forces

Extended supply chains Supply and demand, trade shifts, and government priorities Growth of on-demand economy and contingent workforce

Globalization

Employment of the Foreign Affiliates of U.S. Parent Companies as a Share of the Total Employment of U.S. Multinational Companies, 1985-2010 38 36 34 32 30 28 85 90 95 2000 05 2010 1980

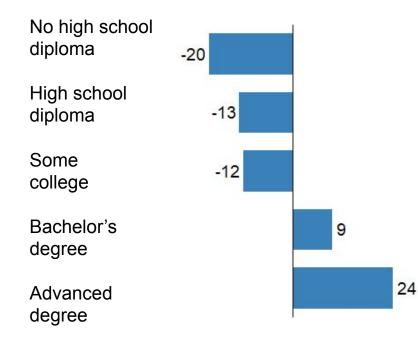
With occasional pull-backs, the outsourcing of jobs by US companies has grown over the past 30 years

A significant percentage of these jobs have been focused in the manufacturing, customer support, and related functions

Source: Outsourcing and Insourcing Jobs in the U.S. Economy: Evidence Based on Foreign Investment Data, Congressional Research Service, June 21, 2013

Globalization

% change in hourly wages by educational background (1979-2018)



Workers without college degrees have seen significant drops in wages over the past 30-40 years

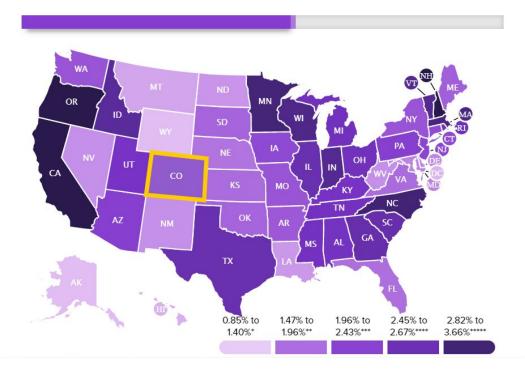
Globalization has played a significant role in this decline as U.S. workers compete with alternative labor sources from around the world

Real Wage Trends, 1979 to 2018, Congressional Research Service, July 23, 2019; How to Save Globalization: Rebuilding America's Ladder of Opportunity, Foreign Affairs, November / December 2019

Trade Shifts

https://www.epi.org/research/tr ade-and-globalization/ Net U.S. jobs displaced due to the goods trade deficit with China as a share of total state employment, 2001–2018

Colorado 2.45%



Low wage work in Denver-Aurora-Lakewood

40% Percentage of low-wage workers	19.9% Percent change in low-wage jobs	\$39,114 Median annual earnings	-3.8% Change in earnings 2008 - 2017	
Occupation			#	%
Retail sales workers			35100	7.2%
Information and records clerks			31166	6.4%
Construction trades workers			28954	6.0%
Cooks and food preparation workers			25666	5.3%
Building cleaning and pest control workers			23506	4.8%
Food and beverage serving workers			23048	4.8%
Material moving workers			18746	3.9%
Motor vehicle operators			16874	3.5%
Material recording, scheduling, dispatching, and distributing			450.44	0.00/
Workers			15944	3.3%
Other management occupations			14585	3.0%
Preschool, primary, secondary, and special education school teachers			13355	2.8%
Supervisors of sales workers			13294	2.7%
Other office and administrative support workers			13294	2.7%
Other personal care and service workers				2.0%
Secretaries and administrative assistants			11578	
ocorcia			9593	2.0%

https://www.brookings.edu/research/meet-the-low-wage-workforce/

Self-Employment

32 million to 44 million U.S. adults engage in self-employed work

17% of adults in 2017 engaged in self-employment work

Median income is similar for both self-employed and those who work for employers

57% of nonfarm sole proprietors work in professional services, repair and personal services , construction, administrative services, and retail trade

https://quickbooks.intuit.com/content/dam/intuit/quickbooks/Gig-Economy-Self-Employment-Report-2019.pdf

Technological Transformation

Automation, artificial intelligence, digitalization changing work and requiring new skills and mindsets



Technological Transformation



Automation

- Use of technology to reduce the level of human activity needed to complete a particular task by replacing or augmenting labor
- Because automation occurs at the task level, it often changes jobs partially rather than eliminating them



Artificial Intelligence

- Computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, or decision-making
- □Allows for non-human decision making, some forms of analysis, and process management



Digitalization

- The use of various digital technologies to change / update business or operational processes
- □Often used to optimize a variety of communication, management, design, and logistics tasks (i.e., the use of a GPS tracking system to optimize fleet operations)

Impact of technological advances by task

Employment levels of routine and non-routine tasks, 1983-2015 70 Employment (in millions) 0 10 0 0 0 0 0 Nonroutine cognitive Routine cognitive Routine manua Nonroutine manual 2010 2015 1985 1990 1995 2000 2005

Nonroutine cognitive:

Management, professional, and related occupations

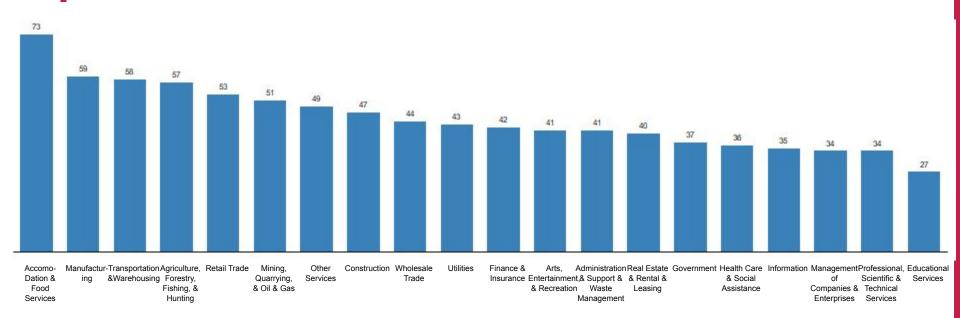
Routine cognitive: Sales and office occupations

Routine manual: Production, transportation, and material moving occupations + Installation, maintenance, and repair occupations + Construction and extraction occupations

Nonroutine manual: Service occupations related to assisting or caring for others

Source: Analysis of Employment Level data, U.S. Bureau of Labor Statistics. Retrieved from FRED, Federal Reserve Bank of St. Louis.

Impact of technological advances by industry

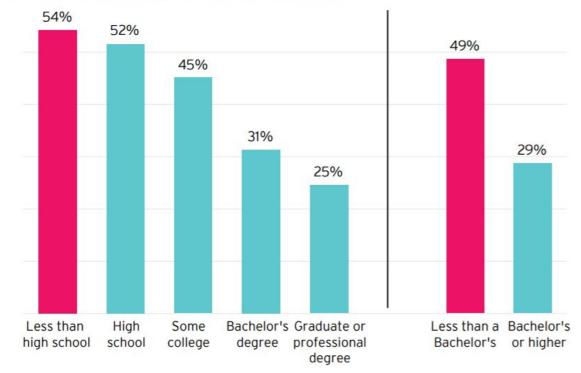


Source: Brookings analysis of BLS, Census, EMSI, Moodys, and McKinsey data, January 2019

Impact of tech advances by education

Non-college workers will see greater job change from automation

Average automation potential by worker educational attainment, 2016



Source: Brookings Analysis of 2016 American Community Survey 1-Year microdata

Digital skills needed for work

The share of work demanding substantial digital literacy is mounting

Percent of American workers employed in jobs requiring low, medium, and high digital skills



- Low digital skill jobs represent a declining percentage of the U.S. labor market, with ongoing drops anticipated
- Medium digital skills jobs have grown dramatically, suggesting the presence of a required digital baseline that many workers lack

Skills of the Digital Economy

The New Foundational Skills of the Digital Economy



These 14 skills, already in wide demand by employers, command salary premiums and are crucial for workers who want to keep pace with a changing job market.

O Burning Glass Technologies

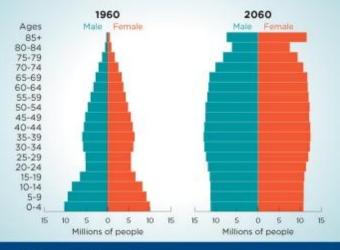
https://www.burning-glass.com/research-project/new-foundational-skills/

Demographic Shifts

Aging and diversifying

From Pyramid to Pillar: A Century of Change

Population of the United States





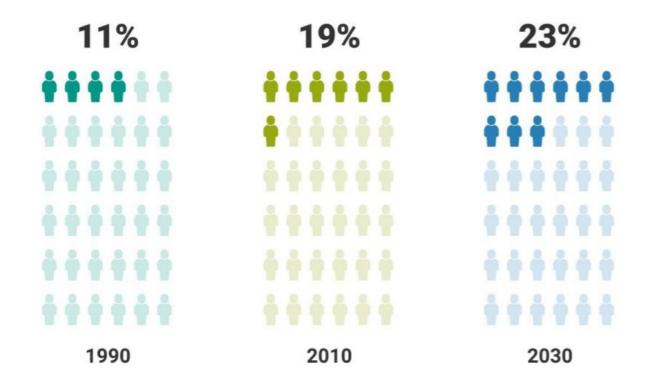
U.S. Department of Commerce Economics and Statistics Administration U.S. Cheves Businesson censors grov Source: National Population Projections, 2017 rcensus gov/programs-surveys /popproj.html



Percentage of labor force 65+ 12% 19% 24% ****** ****** ***** 2000 2010 2018

https://drive.google.com/file/d/1-OaxNiHRbHvU6XSuViDNiK4joTMnnhW8/view

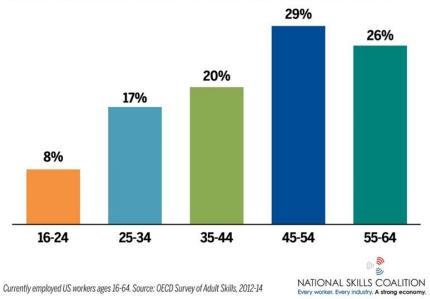
Percentage of labor force 55+



https://drive.google.com/file/d/1-OaxNiHRbHyLl6XSuViDNiK4ioTMppbW8/view

Workers with digital skills

WORKERS WITH NO DIGITAL SKILLS EXIST IN ALL AGE GROUPS, BUT ARE MORE PREVALENT AMONG AGES 45+



Colorado is diversifying

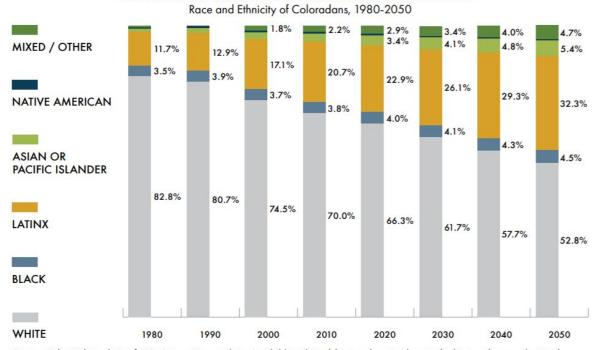


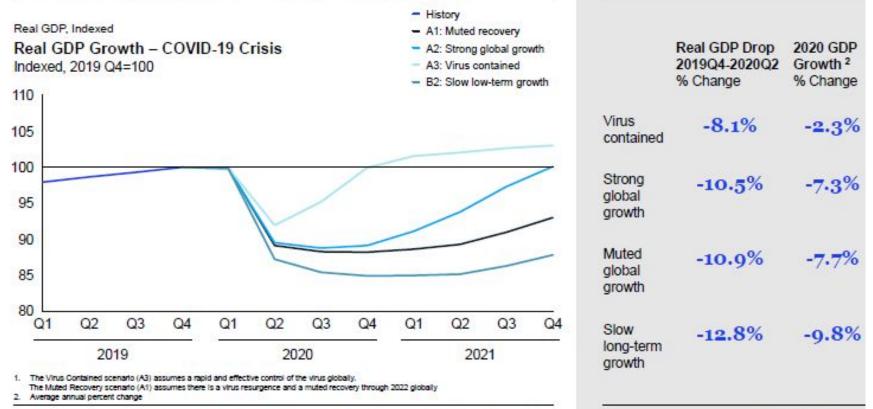
FIGURE 5.1 COLORADO IS BECOMING INCREASINGLY DIVERSE

Source: PolicyLink analysis of U.S. Census Bureau data. Available at http://nationalequityatlas.org/indicators/Race~ethnicity/ Trend:32756/Colorado/false/

COVID-19 Impact on Future of Work Trends



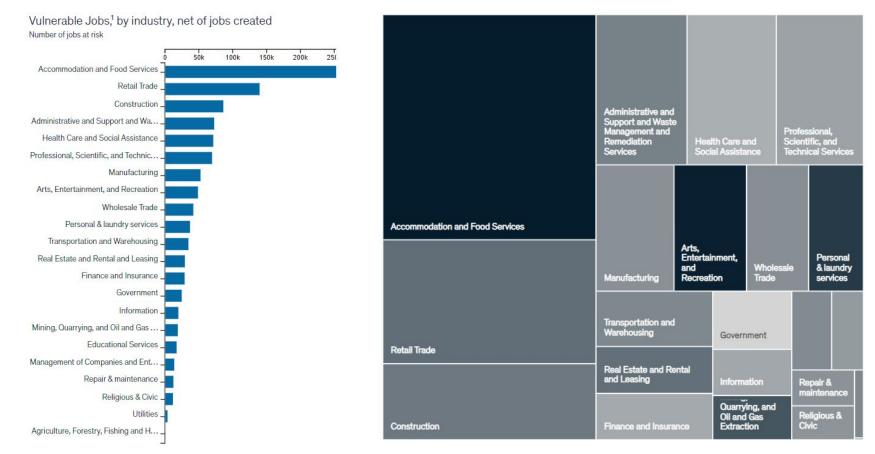
If the virus is contained, we expect a quick recovery after Q2; if not, GDP growth in Colorado could be ~ -10% for the year



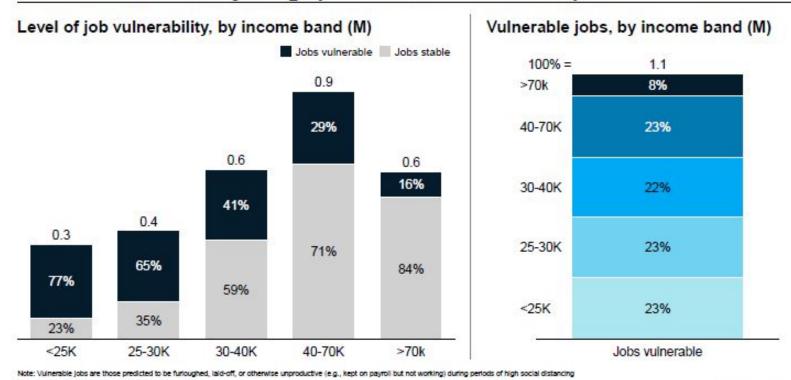
Source: MGI Economics analysis based on scenarios generated by McKinsey in partnership with Oxford Economics, input from Moody's Analytics data

McKinsey & Company

Vulnerable jobs by industry, occupation



https://covid-tracker.mckinsey.com/vulnerable-jobs/industry-occupation



68% of vulnerable jobs pay less than \$40,000 a year

Source: LaborCUBE; McKinsey Global Institute analysis

McKinsey & Company

COVID-19 and Technological Advances

- Automation Forcing
- Industries at high risk for displacement faring worse
- Digital literacy and access gaps
- Remote work and digitalization



Ability to telework by age and education level 16-29 30-44 45-59 60-65 10.0% Lower Secondary or less 10.9 13.1 19.5 Upper secondary 22.2 25.4 23.8 Post-secondary or Tertiary Professional 28.4 30.8 42.2 Tertiary (bachelor/master) 44.3 44.7 0.0% 10.0 20.0 30.0 40.0

Quartz | gz.com | Data: International Monetary Fund, PIAAC survey; Dingel and Neiman (2020).

COVID-19, Globalization, and Market Forces

Globalization

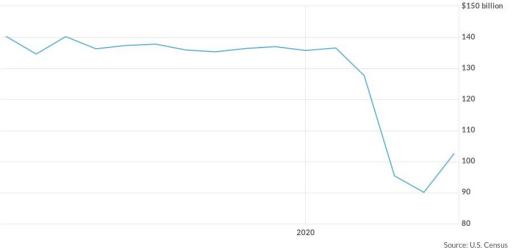
- World Trade Organization believes COVID-19 could cause global trade to fall by as much as one-third
- UN Conference on Trade and . Development predicts the pandemic will reduce flows of foreign direct investment by as much as 40%.

Market Forces

- Shifted market demands immediately.
- Reliance and awareness of gig workers.
- Exacerbated pressure felt by rural communities and industries in decline
- Small businesses suffering most.



U.S. exports 24% below year-ago levels

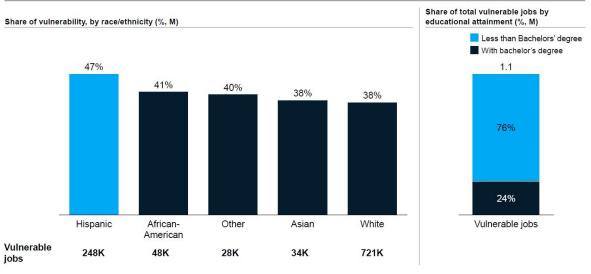


COVID-19 and Demographic Shifts

Demographic Shifts

- Exacerbated challenges for certain populations especially those in low-wage professions.
- Health risks, and discrimination for older workers put them at more of a disadvantage for securing work in new normal

Vulnerable jobs are concentrated disproportionately among Hispanics and workers without college degrees



What does it all add up to?

An opportunity to build resilience.

Individuals can adopt a lifelong learning mindset, build their digital skills, and will have the wraparound supports needed to transition roles.

Employers can invest in their workers and their workforce planning using data-informed strategies and the assets in their community to build back better.

Communities can diversify their economies, build on their assets, and create opportunities for all their residents.

Government can be reimagined to better serve its residents in times of abundance and in times of crisis.



Any questions? Contact Katherine Keegan at katherine.keegan@state.co.us



Colorado Workforce Development Council



RENISE WALKER

Renise.walker@state.co.us

303.229.1008

CWDC Vision, Mission, and Values



Vision: Every Colorado employer has access to a skilled workforce and every Coloradan has the opportunity for meaningful employment, resulting in individual and statewide economic prosperity.

Mission: Enhance and sustain a skills-based talent development network that meets the needs of employers, workers, job seekers, and learners for today and tomorrow.

Values: Equity, agility, integration

Strategies for Equitable Workforce Recovery



- Reset not a restart
- Focus on skills
- Employee assistance and resource navigation
- Upskilling and reskilling
- Apprenticeships

Upskilling & Reskilling



- Upskilling- A workplace strategy focused on continuous learning and development. Companies invest in training programs that help employees develop new abilities and minimize skill gaps.
- **Reskilling** is the process of learning new skills so you can do a different job, or of training people to do a different job.
 - On the job training- apprenticeship, internship, externships etc.
 - Certifications and credentials
 - High school equivalency
 - Basic skills training

Lives Empowered



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Lives Empowered brings together retail businesses interested in working collaboratively to increase economic mobility for frontline workers across Colorado and contribute to a strong economy.

Programs and resources:

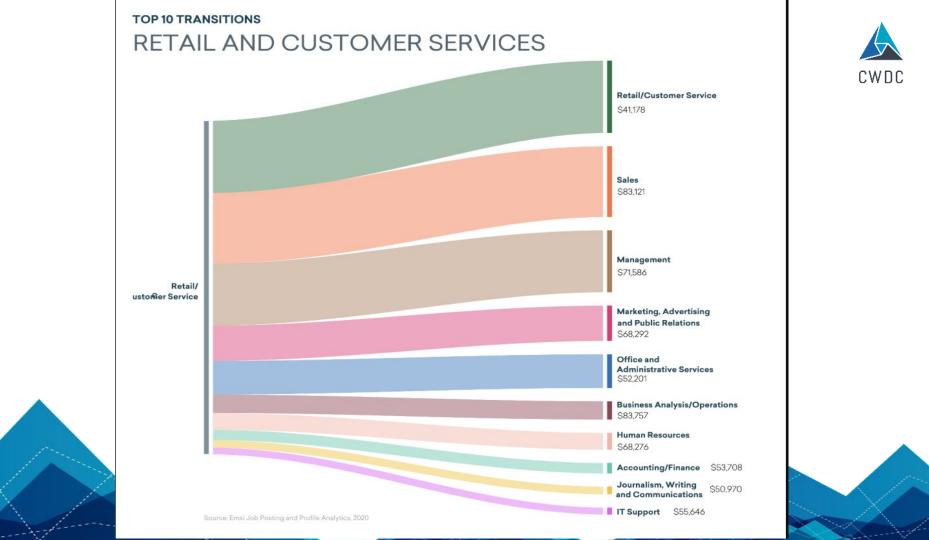
• Training Academy

A PARTNERSHIP OF

- Enrich financial services
- WorkLife employee services
- Retail career pathways



talent FOUND



Regional overview	Health Risk Index	Industries	Companies	Careers	Transitions	Resources	
	Click on a career to explore competencies						
				Business Analys S67,918/yr	is and Operations		(
TRANSITION OUT OF				Human Resource \$58.241/yr	es		
Retail Image: Choose a starting career to transition from				Marketing, Adve and Public Relat \$42,910/yr			
				Office and Adm \$39,515/yr	inistrative Services		
				Sales \$37.341/yr			



These are the skills anyone transitioning would likely already have

Finance/Accounting

Leadership

Personal Attributes

Communication/Writing/Journalism

Customer Service

NEEDED COMPETENCIES

These are the skills anyone transitioning will need to learn

Design/Animation

Digital Marketing

Product Management

Data Science/Analytics

Business Planning/Contingency



Employee Assistance



WorkLife Partnership is the only organization partnering directly with employers to address the challenges faced by frontline workers that lead to disengagement and distracted working.

WORKLIFE NAVIGATOR SERVICES

One-on-one support for employees when life gets tough

WorkLife Navigators work side-by-side with employees to help them find long-term solutions to life's toughest challenges including:



First, WorkLife Navigators help employees address any immediate concerns. Then, they develop a plan so employees are better prepared to handle similar situations in the future.

Apprenticeship

An employer-driven model and form of experiential learning that combines on-the-job learning as a paid employee with related classroom instruction in order to increase an apprentice's skill level and wages.



CO-HELPS

Colorado Healthcare Experiential Learning Pathways to Success

Overview: https://www.cccs.edu/co-helps/

> Questions? <u>CO-HELPS@cccs.edu</u>



OVERVIEW

July 2019- July 2023 5,000 Adult Apprentices 28 Healthcare occupations \$12 million from USDOL \$7 million in-kind from Industry 1 of 4 awards nationally

AT PRESENT

10 program development funding awards 4 colleges 5 employer partners 5 occupations 93 apprentices \$402,719 in commitments

CO-TECH

USDOL Closing the Skills Gap Grant

USDOL announcement: https://www.dol.gov/newsroom/releases/eta/eta20200218

> CCCS Information: https://www.cccs.edu/co-tech/

Questions? CO-TECH@cccs.edu



March 1, 2020-March 1, 2024

1,600 Adult Apprentices

14+ IT & Cybersecurity occupations

\$2 million from USDOL

\$900,000+ in-kind from Industry

1 of 28 awards nationally

Who can help?

- Sector Partnerships
- Workforce centers
- Community colleges
- Community organizations



Talent Development Playbook





New strategies released monthly

- **June**-Apprenticeships & Career Pathways
- **July-** Strategic Workforce Planning and remote work
- August- Recruitment & Retention
- **September** Diversity, Equity & Inclusion
- October- Partnering for success
- **November** Purpose & Profits
- **December** Putting it into Action

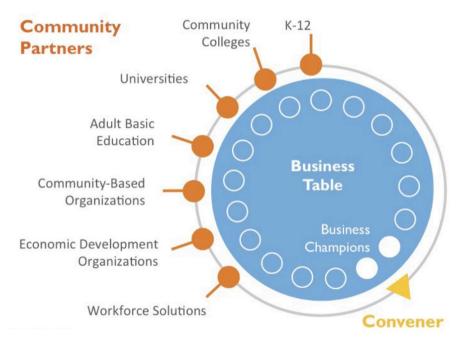
Sector Partnerships



- Regional, public-private partnerships targeting key industries in CO
- Led by industry

Resources

- <u>Background & directory</u>
- <u>Webinars</u>



Welcome Colorado Sector Partnership Network



R3 Metro Denver Retail R3 Metro Denver Construction **R 3 Denver Metro Technology** R3 Media **R3 Metro Denver** Manufacturing **R3 Greater Metro Denver** Healthcare **R3 Metro Denver Early** Childhood **R 3 Boulder/Broomfield** Technology **R3 Boulder Healthcare R3** Transportation





Discover Ability > Develop Talent > Find Success

1.00

Coming up...



• Talent Development Thursdays

Talent Development Playbook- Recruitment and Retention August 27, 2020 2-3pm

 Business strategy webinar with Jon Schallert, The Schallert Group September 17, 2020 2-3pm

Resources



- <u>Onward Colorado</u>- One stop resource for those impacted by job loss during Covid (life supports, retraining, work)
- <u>Location Neutral Employment</u>- Incentive for businesses hiring remote employees in rural Colorado
- <u>Lives Empowered Training Academy</u>- Credentials to support essential skill development and nationally recognized credentials from the National Retail Federation to help frontline workers advance
- <u>Enrich Financial Services</u>- Free financial education and training for individuals and businesses
- <u>Worklife Partnership</u>- Resource navigator services to support employees facing daily challenges during COVID-19

Connect with the CWDC

Strategies >

About >





Search

Colorado Workforce Development Council

Get Involved >

Resources >



Welcome to the new CWDC website! Learn more about the site.

The vision of the Colorado Workforce Development Council is that every Colorado employer has access to a skilled workforce and every Coloradan has the opportunity for meaningful employment, resulting in individual and statewide economic prosperity.

The CWDC's **mission** is to enhance and sustain a skills-based talent development network that meets the needs of employers, workers, job seekers, and learners for today and tomorrow.

The CWDC's values are equity, agility, and integration. Learn more.

WILA

Job Seeker or Student?

Q Find a Workforce Center

Visit TalentFOUND

News & Events >

A Visit My Colorado Journey

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