

# Colorado Career and Technical Education CTE Fact Sheet 2010

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## **Vision of Colorado Career and Technical Education:**

Colorado CTE delivers proven pathways to lifelong career success!

## **Mission of Colorado Career and Technical Education:**

CTE ensures a thriving Colorado economy by providing relevant and rigorous education that is connected, responsive and real.

## **Overall Goal/Outcome of CTE:**

To provide quality educational programs emphasizing core academic content, Postsecondary & Workforce Readiness (PWR) competencies, technical skills, and seamless transition to further education or employment and better prepare students, including special populations to meet challenges of the workforce, economic development, and emerging occupations.

## **Colorado Trends/Facts:**

In 2003, the U.S. Department of Education praised Colorado's CTE governance and structure as a national model for CTE administration for successfully combining secondary and post-secondary administration into one system.

### **Secondary:**

In 2008-2009, there were just over 116,600 total student enrollments in over 1200 secondary programs in nearly 160 school districts. CTE secondary programs are offered at 260 high schools, 8 technical centers, 5 community colleges, one four-year college, and 3 area technical colleges.

### **Postsecondary:**

In 2008-2009, there were nearly 27,000 total student enrollments in nearly 700 postsecondary CTE programs at the 13 system community colleges, 2 local district colleges, one four-year college, 3 area technical colleges, and adult correctional facilities.

- Thirty-eight percent of the total 9-12 grade secondary students in Colorado were enrolled in at least one CTE program in 2008-2009.
- Of the 116,600 secondary CTE enrollments, 24 percent (27,551) were identified as economically disadvantaged and 8 percent (8,932) as disabled. Minority students represented 33 percent (38,578) of total CTE students.
- In 2008-09, there were 51,044 completers of all secondary CTE programs, 9,611 completers of all postsecondary CTE programs at both system community colleges and district colleges, and 3,821 completers of all postsecondary CTE programs at the area technical colleges.
- Eighty-seven percent of secondary and 94% of postsecondary CTE program completers from 2007-2008 who schools were able to contact and who were seeking employment had obtained jobs within a year following program completion.
- Ninety-five percent of the CTE concentrators and CTE program completers who graduated with a high school diploma in 2008-09 met the partially proficient, proficient or advanced levels on the statewide 10<sup>th</sup> grade high school Reading/Language Arts CSAP assessment. Of this same population of students, 72% met the partially proficient, proficient or advanced levels on the statewide 10<sup>th</sup> grade high school Mathematics CSAP assessment.
- More than 23,710 students build leadership skills and participate in nine CTE student organizations as state affiliated members.
- More than 5,000 community and business leaders serve on advisory committees and councils supporting CTE programs.
- Over the last 30 years, appropriations for the Career Technical Act (formerly the Colorado Vocational Act of 1970) have dropped proportionately to the dramatic increase of the actual cost of CTE programs. In 1971-72, the General Assembly provided just over 58 percent of the actual cost of CTE programs (Actual cost: \$11.16 million, state funding: \$6.5 million). In 2008-09, the General Assembly provided 25 percent of the actual cost of CTE programs. (Actual cost from FY09 reported expenses: \$90 million, state funding: \$23.1 million).

## CTE Program Types:

### CTE programs are divided into six Industry Sectors:

Agricultural & Natural Resources; STEM, Arts, Design & Information Technology; Skilled Trades & Sciences; Health Sciences & Public Safety; Hospitality, Human Services & Education; Business & Public Administration

## Colorado Career Clusters & Associated Career Pathways:

- **Agriculture, Food & Natural Resources** -Animal Science, Agribusiness Systems, Food Products & Processing Systems, Natural Resource & Environmental Systems, Plant Science, Power, Structural & Technical Systems.
- **Energy** –Electromechanical Generation & Maintenance, Electrical Energy Transmission & Distribution, Energy Efficiency & Environmental Technology, Fossil Energy Extraction, Processing & Distribution, Renewable Energy Production.
- **Management & Administration** –Administrative Services, Business Information Technology, Corporate/General Management, Human Resource Management, Operations Management.
- **Marketing**-Marketing Communications, Marketing Management, Marketing Research, Merchandising, Professional Sales/Sales Management.
- **Finance**-Accounting, Banking Services, Corporate Finance, Insurance, Securities and Investments.
- **Government & Public Administration**- Foreign Service, Governance, Legal Services, Planning, Public Management & Administration, Regulation, Revenue & Taxation.
- **Hospitality & Tourism**- Lodging, Recreation Amusements & Attractions, Restaurants & Food/Beverage Services, Travel & Tourism.
- **Human Services**-Consumer Services, Counseling & Mental Health Services, Early Childhood Development, Family & Community Services, Personal Care Services.
- **Education & Training**- Administration & Administrative Support, Professional Support Services, Teaching and Training.
- **Health Sciences**-Biotechnology Research & Development, Diagnostic Services, Health Informatics, Supportive Services, Therapeutic Services.
- **Law, Public Safety, Corrections & Security**-Correction Services, Emergency & Fire Management Services, Law Enforcement Services, Security & Protective Services.
- **Transportation, Distribution & Logistics**- Facility & Mobile Equipment Maintenance, Health, Safety, & Environmental Management, Logistics, Planning & Management Services, Planning Management Regulation, Sales & Service, Transportation Operations, Transportation/Systems Infrastructure, Warehousing & Distribution Center Operations.
- **Architecture & Construction**-Construction, Design & Pre-Construction, Maintenance & Operations.
- **Manufacturing**- Health, Safety & Environmental Assurance, Logistics & Inventory Control, Manufacturing Production, Maintenance, Installation & Repair, Production/Process Technology, Quality Assurance.
- **STEM**-Research, Exploration & Innovation, Design, Development & Application.
- **Arts, A/V Technology and Communication**-Audio/video Technology and Film, Journalism and Broadcasting, Performing Arts, Printing/Publishing, Visual & Design Arts.
- **Information Technology**-Information Support and Services, Interactive Media, Network Systems & Telecommunications, Programming & Software Engineering.
- **Postsecondary & Workforce Readiness**-Alternative Cooperative Education (ACE), FACS Core, World of Work.

## Strategies for the future:

- Implementing Career Technical Education Plans of Study
- Strengthening Accountability for Results
- Adopting a Project-Based Focus
- Assessing Career and Technical Skills
- Integrating Academic and CTE Skills and Knowledge
- Building a Corps of Effective CTE Teachers
- Ensuring Effective Strategies For Special Populations
- Connecting CTE To Employers and Workforce Priorities

