



TIVA

An Association for Career & Technical Educators

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Career & Technical Education Points of Interest in Texas

- Students enrolled in CTE programs gain a better understanding of why they are taking academic courses so they can better apply that learning to the world of work.
- In order to be truly career ready students need a strong foundation of academic, technical and employability skills, such as critical thinking, teamwork and interpersonal skills.
- In November 2011 CBS News reported that there are 4.6 unemployed workers competing for every job that's available.
- San Antonio Express-News reports that a variety of industries are having difficulty finding people who can work in advanced technical roles, such as software development, as well as lower-level positions that require more skills & responsibilities than in the past.
- Senior economist, Keith Phillips at the Federal Reserve Bank of Dallas in San Antonio, has stated that the economy is shifting toward a higher-skilled labor force and the need for technologically adept employees is rising faster than it can be met.
- Over the past 10 years enrollment in Texas public schools has increased by 21.2%. CTE enrollment increased by 39.5%.
- In 2009-10 77% of all high school students were enrolled in CTE courses.
- Fall 2011 enrollment in CTE increased 10%.
- The 2008-09 graduation rate for CTE students was 94% compared to 79% graduation rate for all students. The majority of CTE graduates were on the Recommended or Distinguished Achievement graduation plans.
- In 2008-09 CTE concentrators averaged 98% on the TAKS Reading/LA and 95% on the TAKS Math compared to all students averaging 92% and 91% respectively.
- The number of students graduating from TX high schools who received industry certifications or licensures increased annually – to a total of approx. 25,000 students.

Career & Technical Education State Funding History

| Year | CTE Weight | CTE Indirect Costs |
|-------------|--|--------------------|
| Early 1980s | 1.45 | ? |
| 1991 | 1.37 | 85% - 15% |
| 2003 | 1.35 | 90% - 10% |
| 2009 | 1.35 + \$50/FTE for advanced CTE courses | 60% - 40% |
| 2011 | 1.35 + \$50/FTE for advanced CTE courses | 58% - 42% |

CTE courses/programs are more expensive to teach because they require specialized state-of-the-art equipment if training is to be relevant. CTE courses require:

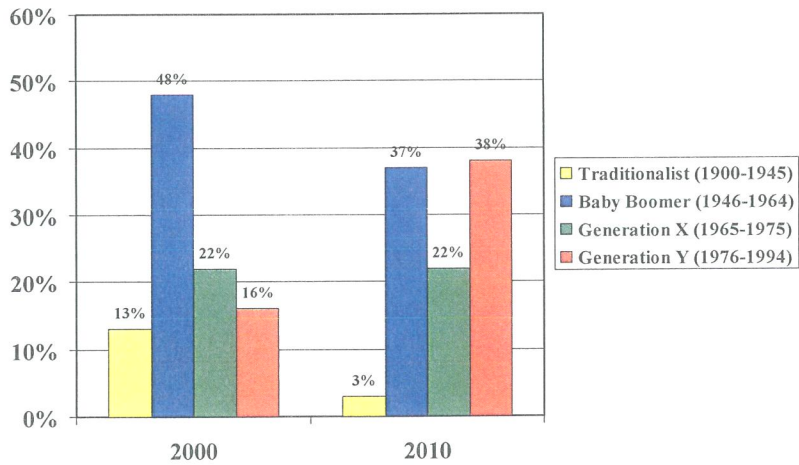
1. a safe environment
2. special classroom & lab equipment as well as necessary tools
3. consumable supplies for specialized student training
4. additional transportation to training areas
5. specialized teacher training through professional development and business & industry certifications
6. current state-of-the-art instructional materials, methods & resource

Ultimately, the goal is to increase student success.

Formula for CTE state weighted funding: <http://www.tea.state.tx.us/index2.aspx?id=2147487143>

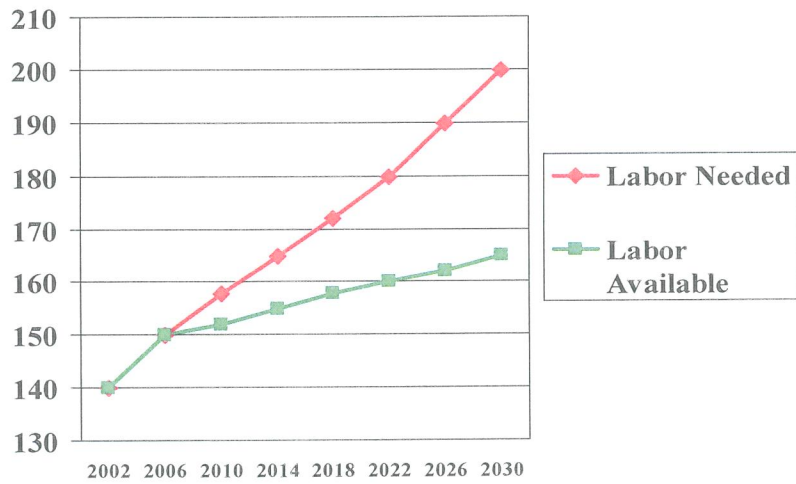
2010-2011 Carl D. Perkins Reallocations: <http://www.tea.state.tx.us/index4.aspx?id=2147496917>

Civilian Labor Force by Generation



Source: Bureau of Labor Statistics

Expected Labor Force and Labor Demand

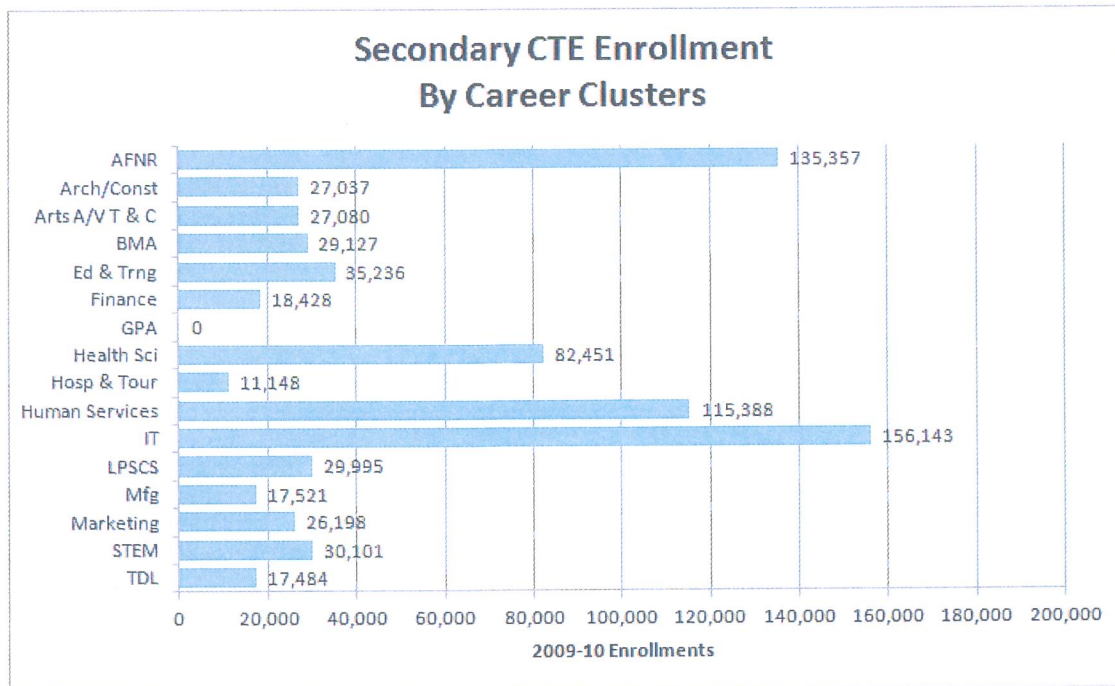






Source: Employment Policy Foundation analysis and projections of Census / BLS and BEA data

The 16 Career Clusters

One of the keys to improving student achievement is providing students with relevant contexts for studying and learning. Career Clusters™ do exactly this by linking school-based learning with the knowledge and skills required for success in the workplace. The National Career Clusters™ Framework is comprised of 16 Career Clusters™ and related Career Pathways to help students of all ages explore different career options and better prepare for college and career.

Each Career Cluster represents a distinct grouping of occupations and industries based on the knowledge and skills they require. The 16 Career Clusters and related Career Pathways provide an important organizing tool for schools to develop more effective programs of study (POS) and curriculum.



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|  <p>Agriculture, Food & Natural Resources</p> | <p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p> |
|  <p>Architecture & Construction</p> | <p>Careers in designing, planning, managing, building and maintaining the built environment.</p> |
|  <p>Arts, A/V Technology & Communications</p> | <p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p> |
|  <p>Business, Management & Administration</p> | <p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p> |

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|--|--|
|  <p>Education & Training</p> | <p>Planning, managing and providing education and training services, and related learning support services.</p> |
|  <p>Finance</p> | <p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p> |
|  <p>Government & Public Administration</p> | <p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p> |
|  <p>HHealth Science</p> | <p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p> |
|  <p>Hospitality & Tourism</p> | <p>Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p> |
|  <p>Human Services</p> | <p>Preparing individuals for employment in career pathways that relate to families and human needs.</p> |
|  <p>Information Technology</p> | <p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p> |
|  <p>Law, Public Safety, Corrections & Security</p> | <p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p> |
|  <p>Manufacturing</p> | <p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p> |
|  <p>Marketing, Sales & Service</p> | <p>Planning, managing, and performing marketing activities to reach organizational objectives.</p> |
|  <p>Science, Technology, Engineering & Mathematics</p> | <p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p> |
|  <p>Transportation, Distribution & Logistics</p> | <p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p> |