



Learning that works for America

CTE™

National Association of State Directors of Career Technical Education Consortium (NASDCTEc)

CTE Provides Opportunities for College and Career

CTE Leads to College

- **79%** of CTE concentrators enrolled in postsecondary education within 2 years of high school **graduation**ⁱ
- **80%** of CTE concentrators persisted in postsecondary **education**ⁱⁱ
 - 27% of people with less than an associate's degree (including licenses and certificates) **earn more** than the average bachelor's degree **recipient**ⁱⁱⁱ
- Number of CTE credentials awarded nationally in 2006: **2,022,885**^{iv}

CTE Graduates Earn More

Federal minimum wage in 2006:
\$5.15

Average hourly rate of CTE concentration high school graduate in 2006:
\$10.04

CTE Leads to Careers

- 95% of CTE concentrators who did not enroll in postsecondary education **worked for pay** within two years of high school graduation (**2004**)^v
- Many worked in occupations related to their high school areas of **concentration**^{vi}:
 - Construction and Architecture: **43%**
 - Consumer/Culinary Services: **39%**
 - Repair and Transportation: **39%**

CTE Leads to Careers

- Experts project **47 million job openings** in the decade ending 2018. About one-third will require an associate's degree or certificate, and nearly all will require real-world skills that can be mastered through **CTE**.^{vii}

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i U.S. Department of Education, Postsecondary and Labor Force Transitions Among Public High School Career and Technical Education Participants, January 2011, Table 2, <http://nces.ed.gov/pubs2011/2011234.pdf>
 ii U.S. Department of Education, Table 4, <http://nces.ed.gov/pubs2011/2011234.pdf>
 iii Executive Office of the President, Council of Economic Advisers, Preparing the Workers of Today for the Jobs of Tomorrow, July 2009, <http://www.whitehouse.gov/administration/eop/cea/Jobs-of-the-Future/>
 iv National Center for Education Statistics, "Career/Technical Education (CTE) Statistics" Table P33, <http://www.nces.ed.gov/surveys/ctes/tables>
 v U.S. Department of Education, Table 7, <http://nces.ed.gov/pubs2011/2011234.pdf>
 vi U.S. Department of Education, Table 10, <http://nces.ed.gov/pubs2011/2011234.pdf>
 vii Georgetown Center on Education and the Workforce via Harvard's Pathways to Prosperity report, p.29, <http://cew.georgetown.edu/>



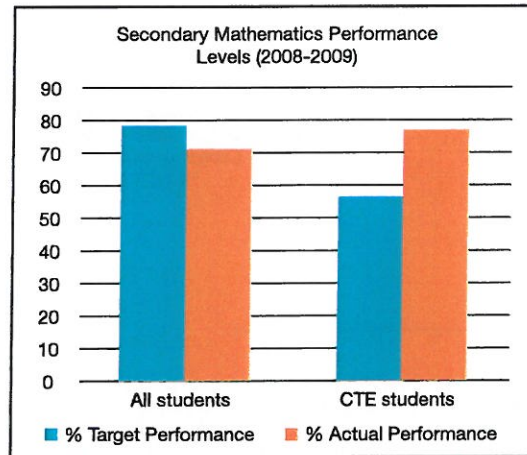
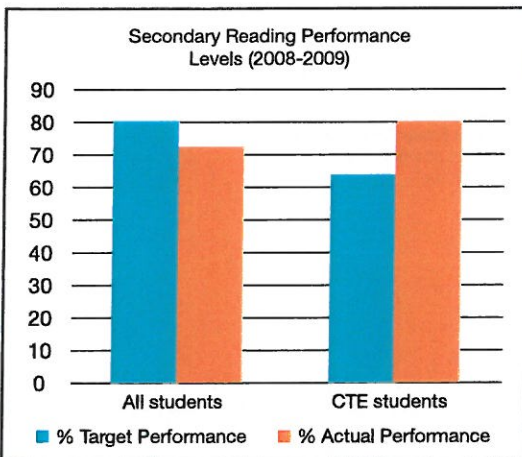
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CTE Student Achievement

Secondary CTE Student Achievementⁱ



Postsecondary CTE Placementⁱⁱ

70 percent of CTE concentrators stayed in postsecondary education or transferred to a 4-year degree program (compared to the overall average state target of 58%) and transitioned to postsecondary education or employment by December of the year of graduation.

CTE Achievement Levelsⁱⁱⁱ

CTE students surpassed state target performance levels in the following areas (2009-2010):

CTE Indicator	Target Performance	Actual Performance
Reading/Language Arts (Secondary):	67%	72%
Mathematics (Secondary):	59%	63%
Technical Skill Attainment (Secondary):	68%	75%
Technical Skill Attainment (Postsecondary):	70%	82%

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ⁱ U.S. Department of Education, FY 2010 Annual Performance Report, Washington, D.C., 2011.

<http://www2.ed.gov/about/reports/annual/2010report/fy2010-apr.pdf>.

ⁱⁱ U.S. Department of Education, <http://www2.ed.gov/about/reports/annual/2010report/fy2010-apr.pdf>.

ⁱⁱⁱ Perkins Consolidated Annual Reports, 2009-2010. All data was collected from individual states and aggregated.



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CTE Enrollment

Over 14 millionⁱ secondary and postsecondary students are enrolled in at least some CTE courses.

Secondary

- Of all public high school graduates enrolled in postsecondary education in 2006, **53.1%** of graduates chose a CTE-related field of studyⁱⁱ
- **61%** of high school graduates (2004) enrolled in postsecondary education took **4 or more credits** in CTE-related fieldsⁱⁱⁱ
- High-risk students are **8 to 10 times** less likely to drop out in 11th or 12th grades if enrolled in a CTE program rather than general education^{iv}
- Average national freshman graduation rate (2007-2008).....**74.9%**^v
- Average CTE concentrator high school graduation rate (2007-2008)...**90.18%**^{vi}

Postsecondary

Total number of credential-seeking undergraduates enrolled in a subbaccalaureate credential, certificate, or associate's degree in Career Education (2007-2008)^{vii}: **12,766,000**

Many of these students seek credentials in CTE-related areas such as :

Career Field of Study	Credential-Seeking Students (2007-2008)
Health Sciences	4,384,000
Manufacturing, Construction, Repair and Transportation	752,000
Business and Marketing	2,783,000
Engineering and Architecture	934,000
Consumer Services	814,000
Protective Services	805,000
Computer and Information Sciences	754,000

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i U.S. Department of Education, Office of Vocational and Adult Education, Report to Congress on State Performance, Program Year 2007-2008, http://cte.ed.gov/docs/Rpt_to_Congress_Report_to_Congress_07-08.pdf
ii U.S. Department of Education, Postsecondary and Labor Force Transitions Among Public High School Career and Technical Education Participants, January 2011. Table 5-A. <http://nces.ed.gov/pubs2011/2011234.pdf>
iii U.S. Department of Education, Table 5-B, <http://nces.ed.gov/pubs2011/2011234.pdf>
iv Kulik, James, Curriculum Tracks and High School Vocational Studies (Ann Arbor: University of Michigan, 1998)
v Citation for 2007-2008 average national freshman graduation rate (see page 5); <http://nces.ed.gov/pubs2010/2010341.pdf>
vi U.S. Department of Education, Office of Vocational and Adult Education, Carl D. Perkins Career and Technical Education Act of 2006, Report to Congress on State Performance, Program Year 2007-2008. Washington, DC.
vii National Center for Education Statistics, "Career/Technical Education (CTE) Statistics" Table P43, <http://www.nces.ed.gov/surveys/ctes/tables>; Calculations are based on information presented with some overlap due to same student receiving multiple credentials, taking multiple majors, etc.

CTE as a Dropout Prevention Strategy:

- A student who takes a ratio of one CTE class for every two academic classes is less likely to drop out of high school than a non-CTE student.^{vi}
- CTE students, to a much greater extent than their non-CTE counterparts, report that they developed problem-solving, project completion, research, math, college preparedness, work-related, communication, time management and critical thinking skills during high school.^{vii}
- CTE high school students are more motivated and interested in their hands-on, relevant coursework and, as a result, are less likely to drop out than non-CTE students.^{viii}
- A Gates Foundation study reports that over 80 percent of respondents said more classroom learning activities relevant to the real world would have helped them to finish high school.^{ix}

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i National Center for Education Sciences, Postsecondary and labor force transitions among public high school career technical education participants, Issue Table 7, January 2011. <http://nces.ed.gov/pubs2011/2011234.pdf>

ii NCES, Issue Table 7, <http://nces.ed.gov/pubs2011/2011234.pdf>

iii NCES, Issue Table 4, <http://nces.ed.gov/pubs2011/2011234.pdf>

iv Gates Foundation/Hudson Institute, Pathways to boosting the earnings of low-income students by increasing their educational attainment, 2009. <http://www.hudson.org/files/publications/pathways%20to%20boosting.pdf>

v NCES, Issue Table 7, <http://nces.ed.gov/pubs2011/2011234.pdf>

vi National Research Center for Career Technical Education, Dropping out of high school and the place of career and technical education, 2005. <http://136.164.122.102/userfiles/file/pubs/droppingout-plank.pdf>

vii National Research Center for Career Technical Education, Career and technical education pathways programs, academic performance, and the transition to college and career, 2007. http://136.164.122.102/userfiles/file/pubs/cte_pathway_programs.pdf

viii U.S. Department of Education Office of Educational Research and Improvement, Dropouts and career and technical education, myths and realities no. 23, 2002.

ix Civic Enterprises, The silent epidemic: Perspectives of high school dropouts, March 2006. <http://www.gatesfoundation.org/united-states/documents/thesilentepidemic3-06FINAL.pdf>