

## **Career Technical Education Works for Students**

- Ninety-two percent of CTE concentrators in Massachusetts graduated high school in 2013, compared to the national average of 81 percent.
- According to a national survey of CTE students, about onethird report having the chance to earn college credit, a certification or a degree because of their CTE coursework and two-thirds report having gained skills that will help them in the future.<sup>III</sup>

## **CTE IN MASSACHUSETTS**

- ✓ About 56,600 high school students are enrolled in CTE
- ✓ About 63,900 postsecondary students are enrolled in CTE
- Nearly 21 percent of all postsecondary degree and certificates awarded in Massachusetts in 2010 were associate degrees or certificates, about 26,600 in total. iv
- About 35,500 students in Massachusetts participated in at least one Career Technical Student Organization (CTSO). v

Key Indicators of Success in Massachusetts: 2013-14vi	
CTE Students Proficient in Reading, Language Arts	88%*
CTE Students Proficient in Mathematics	76%*
CTE High School Graduates Placed in College/Careers	97%*
Postsecondary CTE Students Earning a Credential, Certificate of Degree	54%*
Postsecondary CTE Students Staying Enrolled and/or Transferring	70%*
Postsecondary CTE Students Placed in Careers/Further Training	83%*
*Indicates that the state met or exceeded 90 percent of the final agreed upon performance levels for each indicator as negotiated with the U.S. Department of Education.	

## **Career Technical Education Works for the Economy**

- Middle-skill jobs account for 46 percent of Massachusetts' labor market, but only 37 percent of workers in Massachusetts possess the required skills, vii leading to a skills gap, which CTE can help address.
- By 2018, the Business, Management & Administration Career Cluster® is projected to be Massachusetts' largest cluster overall, accounting for 582,300 jobs, but Information Technology will be the fastest growing, with jobs in this sector increasing by 23 percent.
- In all, Massachusetts will gain about 175,300 jobs for a total of 3,668,000. About 63 percent of all jobs will
  require some education and training beyond high school, including 333,000 that will require certificates.

If Massachusetts increased the number of citizens with certificates or associate degrees by 10 percentage points, the state would have:

\$1,075 higher median per capita income

\$15,200 fewer unemployed individuals

\$38,500 fewer individuals living in poverty

## **Career Technical Education Works for America**

- \$168 BILLION = Estimated lifetime gain from CTE's impact on reducing the high school dropout rate.<sup>x</sup>
- \$806 BILLION = Estimated income added to the U.S. economy by community colleges.xi



<sup>&</sup>lt;sup>1</sup> NASDCTEc analysis of 2012-13 data from the U.S. Department of Education, Office of Career, Technical and Adult Education.

<sup>&</sup>quot;U.S. Department of Education, National Center for Education Statistics. (2014). *Public High School Four-Year On-Time Graduation Rates and Event Dropout Rates*. http://nces.ed.gov/pubs2014/2014391.pdf

Association for Career and Technical Education. (2014). CTE Works! 2014 results from a national survey.

www.acteonline.org/uploadedFiles/Assets and Documents/Global/files/CTE Info/Research/2014 NRCCUA ACTE Research Report Final.pdf

iv U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System. NASDCTEc analysis of completions component (provisional data). https://nces.ed.gov/ipeds/

<sup>&</sup>lt;sup>v</sup> National Coordinating Council of Career Technical Student Organizations' State Fact Sheets. (2014). http://www.ctsos.org/advocate/state-ctso-fliers/

vi NASDCTEc analysis of data from Perkins Collaborative Resource Network. http://cte.ed.gov/

vii National Skills Coalition. (2014). State Middle Skills Fact Sheets http://www.nationalskillscoalition.org/state-policy/fact-sheets

viii Carnevale, Anthony et al. (2011). Career Clusters: Forecasting Demand for High School through College Jobs, 2008-18, State Data <a href="http://www.careertech.org/sites/default/files/Georgetown-CareerClusters-State%20Data-2008-2018.pdf">http://www.careertech.org/sites/default/files/Georgetown-CareerClusters-State%20Data-2008-2018.pdf</a>

As calculated on Common Good Forecaster, increase in education attainment assumes a five percentage point decrease in those who did not complete high school and a 10 percentage point increase in those earning certificates or associate degrees. Unemployment and poverty figures are rounded to the nearest 100. <a href="http://www.unitedway.org/our-impact/focus/education/common-good-forecaster">http://www.unitedway.org/our-impact/focus/education/common-good-forecaster</a>

<sup>\*</sup> Kotamraju, Pradeep. (2011). *Measuring the Return on Investment for CTE*. <u>Techniques.</u> <u>http://careertech.org/sites/default/files/PradeepKtamrajuMeasuringROlforCTE-2011.pdf</u>

xi American Association of Community Colleges. (2014). Where Value Meets Values: The Economic Impact of Community Colleges http://www.aacc.nche.edu/About/Documents/USA\_AGG\_FactSheet\_Final\_021114.pdf