Career and Technical Education
At the secondary level, CTE is delivered through a combination of comprehensive high schools, multi-district CTE centers, tribal schools, and alternative state schools. At the postsecondary level, CTE is delivered through the state’s technical institutes and 4-year public universities.¹

In FY 2015, 9% of secondary and 56% of postsecondary students enrolled in CTE were economically disadvantaged.²

Career Clusters
Seven of the 16 career clusters in CTE lead to high-skill, high-wage, and high-demand STEM-related careers. These clusters include Agriculture, Architecture, Health, Information Technology, Manufacturing, STEM, and Transportation, Distribution, and Logistics and contain programs that prepare students for nontraditional careers.
Middle-Skill and STEM Jobs

The pipeline to middle-skill and STEM jobs loses young people at every level of the education system. Thus, the supply of sufficiently trained workers will not meet the demand of key industries.

Fast Facts

From 2014 to 2024…

- Computing jobs will grow by 16%.  
- Engineering jobs will grow by 9%.  
- Advanced manufacturing jobs will grow by 5%.  
- Of all job openings, 51% will require training at the middle skill-level.  

Yet…

- 20% of students who enter an associate’s degree program graduate.  
- 46% of students who enter a bachelor’s degree program graduate.  
- 49% of workers are trained to the middle-skill level.  

2016 AP Test Taking and Passing

Students pursuing careers in STEM, particularly computer science and engineering, must become academically prepared early in their educational trajectory.

For West Virginia, in 2016, college-bound female students earned an average math SAT score of 497, compared to 531 for male students.

State CTE Contact

Sherri Nash, Executive Director, Office of Career & Technical Accountability and Support, West Virginia Department of Education, 1900 Kanawha Blvd. E., Bldg. 6, Rm. 221, Charleston, WV 25305, (304) 558-2348, sherri.nash@k12.wv.us

Data Sources (retrieved April 2017)

1 https://www.acteonline.org/stateprofiles/
2 https://perkins.ed.gov/pims/DataExplorer/CTEParticipant
3 https://perkins.ed.gov/pims/DataExplorer/CTEConcentrator (race not available for clusters)
4 http://vitalsigns.changetheequation.org/
5 http://www.nationalskillscoalition.org/state-policy/fact-sheets
8 https://reports.collegeboard.org/sat-suite-program-results/class-of-2016-results/state-reports