

Virginia Career and Technical Education: Education and Training

Virginia Department of Education, Office of Career, Technical, and Adult Education



November 2016

Virginia's 16 career clusters and career assessments help students investigate careers and design their plan of study to advance their career goals. Within each career cluster, there are multiple career pathways that represent a common set of skills and knowledge, including academic, technical, and career readiness skills that lead to credentials necessary to pursue a full range of career opportunities from entry level to management, including technical and professional career specialties. CTE actively partners with business and industry to design and provide high quality, dynamic programs to meet current, emerging, and projected labor market needs. Relevant work-based learning opportunities and leadership development offered through career and technical student organizations are incorporated into the academic and career plan.

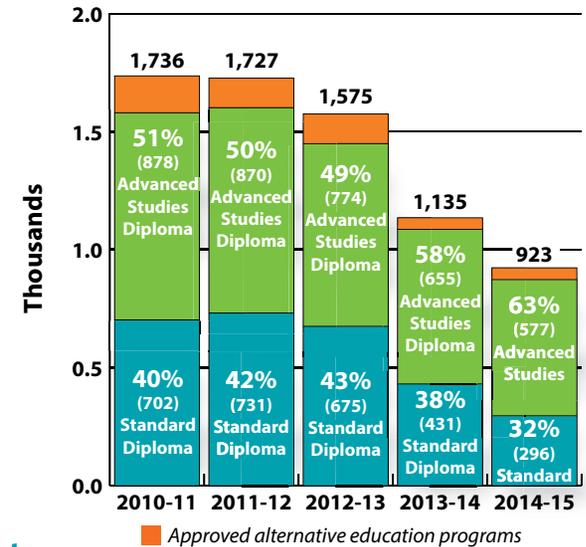
A CTE completer is a student who has met the requirements for a CTE concentration and all requirements for high school graduation, or an approved alternative education program. A concentration is a coherent sequence of state-approved courses. Students may take additional CTE courses that will enhance their career pathway goals. Completion of certain skill sets and coursework enable students to participate in Board-approved external examinations that test essential employability and technical skills. Students who earn these credentials are eligible to earn verified credit towards graduation requirements.

Beginning in 2013-2014, first time ninth grade students are required to earn a Board-approved career and technical education credential to graduate with a Standard Diploma.

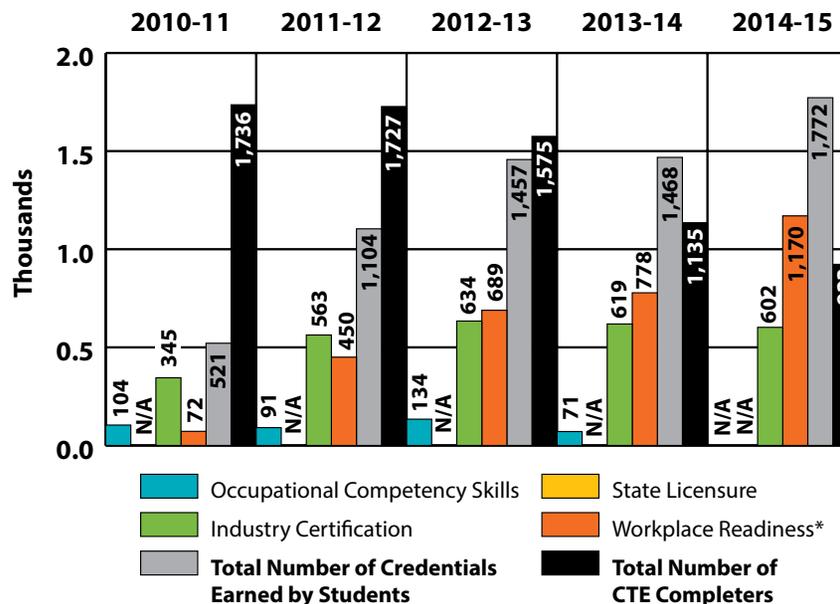
Types of Credentials

- **Full Industry Certification** - from a recognized industry, trade, or professional association;
- **Pathway Industry Certification** - specific stackable credentials from a recognized industry that lead to a full industry certification;
- **Occupational Competency Skills Assessment** - a national standardized assessment of skills/knowledge in a specific career and/or technical area;
- **State License** - required for entry into a specific occupation; and
- **Workplace Readiness Skills for the Commonwealth Certification** - for essential employability skills recognized by Virginia employers.

Completers Graduated with Standard and Advanced Studies Diplomas



Credentials Earned by CTE Students



NOTE: Completers may participate in one or more Board-approved credentialing test(s). Not all completers participate in the credentialing tests. There are age restrictions set by certain credentialing entities which would prohibit the student from testing until after high school. The cost of credentialing tests range from \$10 to \$300 per test.

*Prior to 2010-11, Workplace Readiness Skills assessments were included in the Industry Certification category.

Source: Virginia Department of Education

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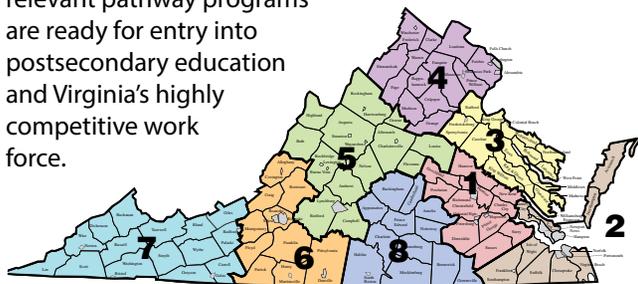
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The Education and Training Career Cluster prepares you for careers to provide education and training services that serve individuals of all ages and across a range of industries. Career choices include teaching in a brick and mortar classroom or virtual environment, leading as a college president, and serving others as a social worker.

The Education and Training cluster holds many career opportunities. A 12 percent wage and salary increase is projected over the next few years. With a greater need to reach children with learning differences, obtaining specialization in Special Education will help distinguish students in the market place.

Virginia high school students learn the essential academic skills that are critical for all careers and the foundational skills needed for careers in Education and Training. They begin to specialize in a field of interest as they complete a coherent sequence of courses within a pathway.

Secondary students who complete these rigorous and relevant pathway programs are ready for entry into postsecondary education and Virginia's highly competitive work force.



Selected Statewide Occupational Projections

Selected Occupation	2014 Median Wage ¹	2022 Projected Employment ²	Predominant Education Level ³
Elementary School Teachers, Except Special Education	\$56,690	41,569	Bachelor's or more & Training/certification
Teacher Assistants	\$23,680	33,286	Some college/Associate Degree
Secondary School Teachers, Except Special and Career/Technic	\$57,780	25,476	Bachelor's or more & Training/certification
Middle School Teachers, Except Special and Career/Technical	\$55,800	19,066	Bachelor's or more & Training/certification
Preschool Teachers, Except Special Education	\$31,780	10,396	Bachelor's or more
Coaches and Scouts	\$30,630	8,283	Bachelor's or more & Training/certification
School Counselors	\$54,920	7,656	Master's Degree
Education Administrators, Elementary and Secondary School	\$86,300	7,208	Bachelor's or more & Work experience
Self-Enrichment Education Teachers	\$38,280	7,042	Bachelor's or more & Training/certification
Librarians	\$58,620	5,237	Bachelor's or more
Kindergarten Teachers, Except Special Education	\$55,640	4,853	Bachelor's or more & Training/certification
Instructional Coordinators	\$66,960	4,726	Bachelor's or more & Work experience
Special Education Teachers, Secondary School	\$55,780	4,159	Bachelor's or more & Training/certification
CTE Teachers, Secondary	\$56,810	3,884	Bachelor's or more & Training/certification
Adult Basic Education Teachers	\$54,400	3,376	Bachelor's or more & Training/certification
Special Education Teachers, Middle School	\$57,050	3,292	Bachelor's or more & Training/certification
Education Administrators, Postsecondary	\$87,370	3,056	Bachelor's or more & Work experience
Library Technicians	\$31,090	2,861	High School
Education Administrators, Preschool and Childcare	\$49,190	1,187	Bachelor's or more & Work experience

¹ Wage data from the US Bureau of Labor Statistics Occupational Employment Statistics Program; ² Estimates from Virginia Labor Market Information. Occupational Projections (long-term) for Multiple Occupations in Virginia in 2012-2022. Retrieved via <https://data.virginialmi.com/>; ³ Predominant level of education and training information created by Trailblazers, based on US BLS occupational education and training data

Source: Virginia Employment Commission, Virginia Occupational Employment Projections 2013-2022

Education and Training 2014-2015 Enrollments**

Pathways	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
Administration and Administrative Support	3,712	4,463	1,703	4,014	931	2,019	851	890
Professional Support Services	559	472	88	1,446	311	578	234	98
Teaching and Training	4,418	5,673	2,146	5,900	1,372	2,892	1,263	1,300

** NOTE: Duplicated Pathway student enrollments

Source: Virginia Department of Education