

# Virginia's Credentialing Performance Trends



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

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**Career and Technical Education (CTE)** prepares students for many of the jobs in Virginia forecasted to experience the fastest growth in the coming years. Given the large percentage of jobs that require some type of postsecondary education or training (currently estimated at 63 percent of all jobs in the United States), it is critical that high school graduates leave high school with the knowledge and skills needed to continue their learning and have a choice in their future.

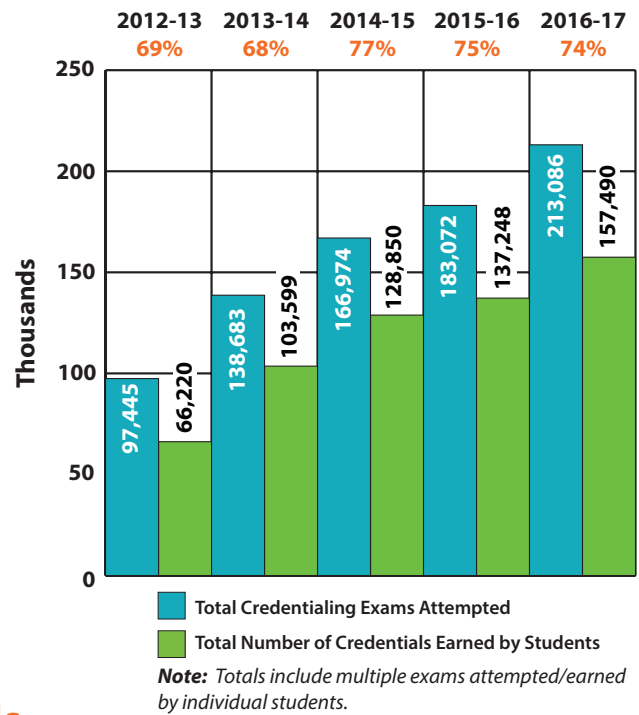
*The cost of Board-approved credentialing tests range from \$10 to \$300 per test.*

Data presented in this snapshot is based on the performance of CTE program completers. A CTE completer is a student who has met the requirements for a CTE concentration (course sequence) and all requirements for high school graduation, or an approved alternative education program.

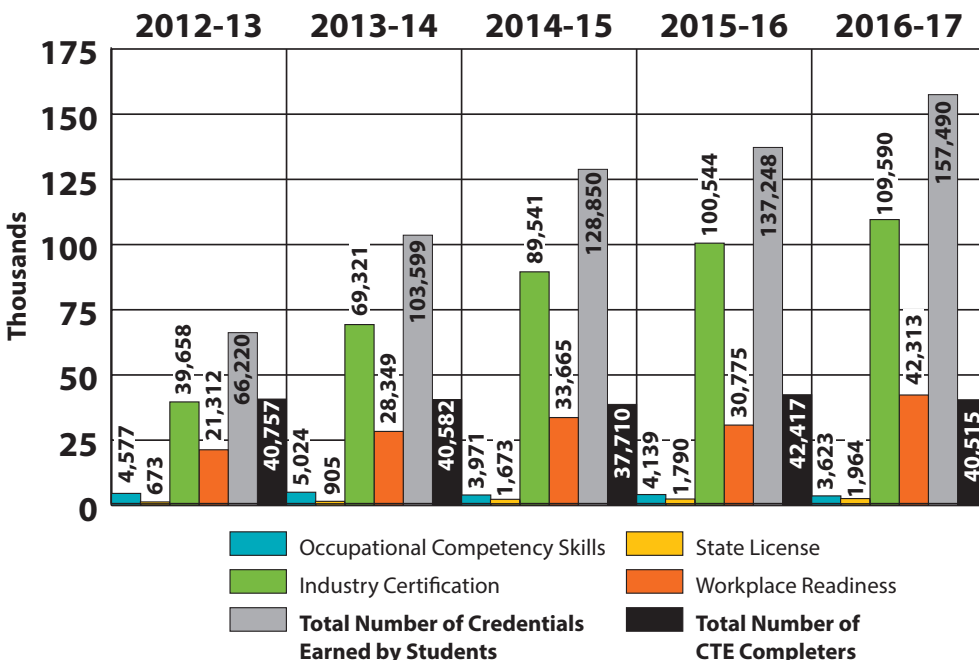
Beginning in 2013-2014, first time ninth grade students are required to earn a Board-approved career and technical education credential to graduate with a Standard Diploma. Students may take additional CTE courses that will enhance their career pathway goals.

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.

## Pass Rates of Exams Attempted vs Earned



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Secondary schools report the number of credentials earned by students for passing occupational competency assessments recognized by the National Occupational Competency Testing Institute (NOCTI), state licensure examinations, industry certification examinations, and workplace readiness skills assessments.

\*Prior to 2010-2011, workplace readiness skills assessments were included in the Industry Certification category.

**Source:** Virginia's School Report Card

For more information about CTE Programs visit the CTE Resource Center's web site



# Selected Statewide Occupational Projections

Selected Occupation	2015 Median Wage <sup>1</sup>	2024 Projected Employment <sup>2</sup>	Predominant Education Level <sup>3</sup>
Registered Nurses	\$63,640	72,042	Bachelor's or more
Management Analysts	\$94,930	65,586	Bachelor's or more/Work experience
Accountants and Auditors	\$74,200	50,237	Bachelor's or more
Software Developers, Applications	\$103,490	45,360	Bachelor's or more
Elementary School Teachers (Except Spec. Ed.)	\$59,190	38,712	Bachelor's or more/Training/Certification
Computer Systems Analysts	\$95,370	35,183	Bachelor's or more
Software Developers, Systems Software	\$110,950	32,103	Bachelor's or more
Sales Representatives, Services, All Other	\$59,800	28,820	Bachelor's or more/Training/Certification
Licensed Practical Nurses	\$40,240	26,213	Associate/Some college/Training/Certification
Lawyers	\$123,230	24,149	Bachelor's or more
Police and Sheriff's Patrol Officers	\$49,860	20,855	Associate/Some college/Training/Certification
Marketing Research Analysts and Specialists	\$63,250	20,596	Bachelor's or more
Electricians	\$47,020	20,247	Associate/Some college/Training/Certification
Computer and Information Systems Managers	\$151,850	17,169	Bachelor's or more/Work experience
Plumbers, Pipefitters, and Steamfitters	\$44,170	13,536	High School/Training/Certification
Information Security Analysts	\$102,710	13,034	Bachelor's or more/Work experience
Heat, Air Conditioning, Refrigeration Mechanics	\$47,370	11,807	Associate/Some college/Training/Certification
Mental Health Counselors	\$43,460	10,374	Bachelor's or more/Training/Certification
Firefighters	\$48,730	10,187	Associate/Some college/Training/Certification
Industrial Machinery Mechanics	\$47,860	9,887	High School/Training/Certification
Paralegals and Legal Assistants	\$49,520	9,804	Associate/Some college
Personal Financial Advisors	\$85,710	8,021	Bachelor's or more/Training/Certification
Truck Mechanics and Diesel Engine Specialists	\$43,800	7,614	High School/Training/Certification
Operations Research Analysts	\$105,970	7,505	Bachelor's or more
Machinists	\$43,600	7,378	High School/Training/Certification
Physical Therapists	\$84,300	6,673	Bachelor's or more
Web Developers	\$78,680	6,638	Bachelor's or more
Health Specialties Teachers, Postsecondary	\$63,690	6,346	Bachelor's or more/Work experience
Radiologic Technologists	\$55,820	5,736	Associate/Some college
Dental Hygienists	\$80,770	5,383	Associate/Some college
Medical and Clinical Laboratory Technologists	\$58,020	5,154	Bachelor's or more
Nurse Practitioners	\$94,340	5,045	Bachelor's or more
Manufacturing Maintenance and Repair Workers	\$44,600	4,800	High School/Training/Certification
Dentists, General	\$127,980	4,692	Bachelor's or more
Automotive Body and Related Repairers	\$45,070	4,666	High School/Training/Certification
Clinical, Counseling, and School Psychologists	\$68,830	4,317	Bachelor's or more/Training/Certification
Construction and Building Inspectors	\$56,010	4,221	Associate/Some college/Training/Certification/Work experience
Special Education Teachers, Secondary School	\$57,050	4,159	Bachelor's or more/Training/Certification
Eligibility Interviewers, Government Programs	\$38,890	4,071	High School/Training/Certification
Speech-Language Pathologists	\$76,390	3,950	Bachelor's or more
Brickmasons and Blockmasons	\$45,240	3,653	High School/Training/Certification
Water/Wastewater Treatment/System Operators	\$40,940	3,652	Associate/Some college/Training/Certification
Environmental Scientists and Specialists	\$70,300	3,614	Bachelor's or more
Chefs and Head Cooks	\$38,480	3,502	High School/Work experience
Security and Fire Alarm Systems Installers	\$42,820	3,345	High School/Training/Certification
Interpreters and Translators	\$62,410	3,325	Bachelor's or more/Training/Certification
Technical Writers	\$75,750	3,316	Bachelor's or more/Training/Certification/Work experience
CTE Teachers, Secondary School	\$59,200	2,677	Bachelor's or more/Training/Certification/Work experience

<sup>1</sup> Wage data from the US Bureau of Labor Statistics Occupational Employment Statistics Program. Retrieved via <https://www.bls.gov/oes/tables.htm>. <sup>2</sup> Estimates from Virginia Employment Commission, Occupational Projections (long-term) for Multiple Occupations in Virginia in 2015-2024. Retrieved via <https://data.virginialmi.com>.

<sup>3</sup> Predominant level of education and training information determined by Trailblazers based on U.S. Bureau of Labor Statistics occupational education and training data. Retrieved via <http://ctetrailblazers.org/labor-market-data/>.