

# Virginia Career and Technical Education: Transportation, Distribution and Logistics

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.

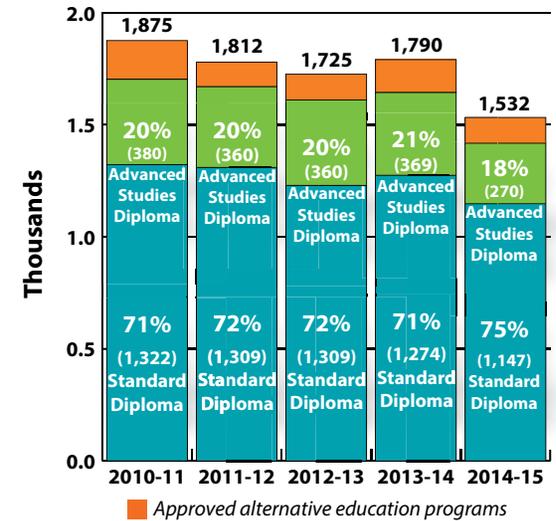
A CTE completer is a student who has met the requirements for a CTE concentration and all requirements for high school graduation, or an approved alternative education program. A concentration is a coherent sequence of state-approved courses. Students may take additional CTE courses that will enhance their career pathway goals. Completion of certain skill sets and coursework enables 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.

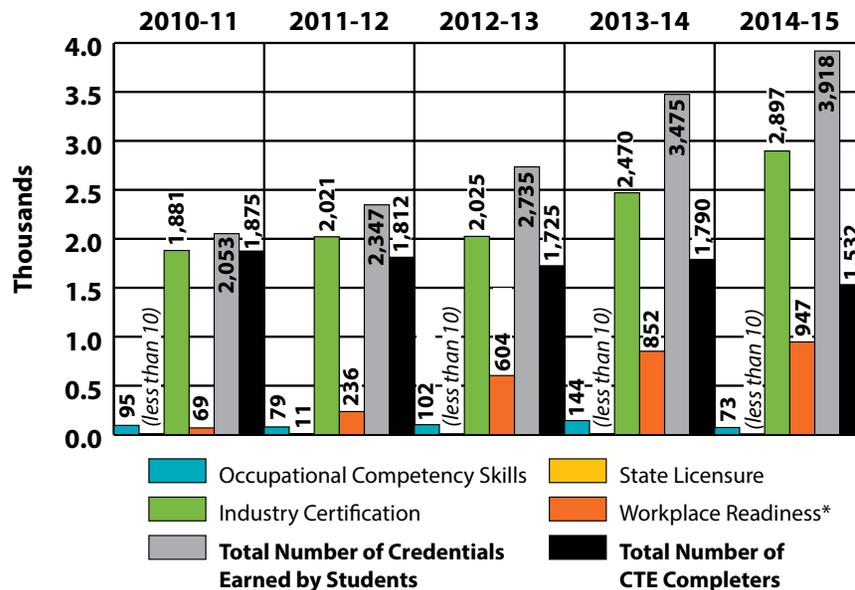
## Types of Credentials

- **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 ranges from \$10 to \$300 per test.

\*Prior to 2010-11, Workplace Readiness Skills assessments were included in the Industry Certification category, but now are reported separately.

Source: Virginia Department of Education

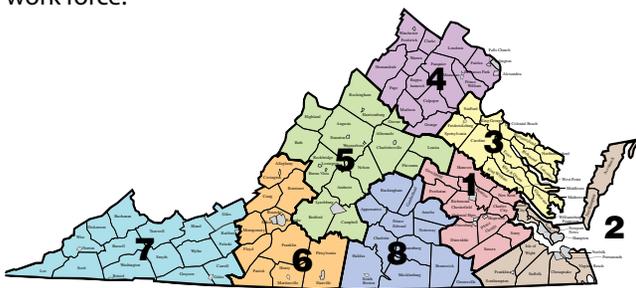
# Virginia Career and Technical Education: Transportation, Distribution and Logistics

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The **Transportation, Distribution, and Logistics Career Cluster** prepares you for careers in which you plan, manage, and move everything from people to company products through a range of transportation services. Individuals in this field are involved in the logistics of all types of transportation from road to rail and air to water.

Virginia high school students learn the essential academic skills that are critical for all careers and the foundational skills needed for careers in Transportation, Distribution, and Logistics. 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 <sup>1</sup>	2022 Projected Employment <sup>2</sup>	Predominant Education Level <sup>3</sup>
Heavy and Tractor-Trailer Truck Drivers	\$37,630	43,398	High School & Work experience
Automotive Service Technicians	\$39,480	25,170	High School & Training/certification
Light Truck or Delivery Services Drivers	\$29,820	20,202	High School
Bus Drivers, School or Special Client	\$27,550	18,121	High School & Training/certification
Billing and Posting Clerks	\$35,540	15,553	Some college/Associate Degree
Logisticians	\$81,000	8,543	Bachelor's or more & Work experience
Diesel Engine Specialists	\$42,480	7,952	High School & Training/certification
Supervisors of Transportation Operators	\$55,990	6,149	High School & Work experience
Dispatchers	\$35,430	4,650	Some college/Associate Degree & Training/certification
Bus Drivers	\$35,260	4,205	High School & Training/certification
Mobile Heavy Equipment Mechanics	\$45,720	3,541	High School & Training/certification
Airline Pilots, Copilots, and Flight Engineers	\$111,260	2,841	Bachelor's or more & Training/certification & Work experience
Transportation and Distribution Managers	\$95,910	2,438	High School & Work experience
Tire Repairers and Changers	\$27,300	2,273	High School & Training/certification
Captains, Mates, and Pilots of Water Vessels	\$67,830	2,098	High School
Cargo and Freight Agents	\$35,530	1,943	Some college/Associate Degree
Aircraft Mechanics and Service Technicians	\$59,110	1,879	Some college/Associate Degree
Couriers and Messengers	\$29,200	1,742	High School
Ship Engineers	\$57,120	1,718	Some college/Associate Degree

<sup>1</sup> Wage data from the US Bureau of Labor Statistics Occupational Employment Statistics Program; <sup>2</sup> Estimates from Virginia Labor Market Information, Occupational Projections (long-term) for Multiple Occupations in Virginia in 2012-2022. Retrieved via <https://data.virginialmi.com>; <sup>3</sup> 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 2014-2022

## Transportation, Distribution and Logistics 2014-2015 Enrollments\*\*

Pathways	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
Facility and Mobile Equipment Maintenance	1,464	1,627	713	3,887	1,167	1,357	1,590	787
Logistics Planning and Management Services	597	554	94	1,492	385	559	210	98
Transportation Operations	3,400	4,148	1,499	3,481	547	1,668	756	890
Transportation Systems/Infrastructure Planning, Management	3,438	4,045	1,487	3,512	621	1,698	756	890
Warehousing and Distribution Center Operations	3,132	3,626	1,423	2,554	476	1,433	703	800

\*\* NOTE: Duplicated Pathway student enrollments

Source: Virginia Department of Education