

Career and Technical Education Update

The Manufacturing Development and
Small Business Commissions Meeting
Stafford, Virginia
September 18, 2013

Virginia Department of Education



A New Vision

CTE ...

- is critical to ensuring that Virginia leads in economics and global competitiveness
- partners with employers to design and provide high-quality, dynamic programs
- prepares students to succeed in further education and careers
- is results-driven system

Key Features

CTE...

- is for all students
- is for all “careers,” based on the 16 Career Clusters and 79 Career Pathways
- is based on employer demand
- is technology driven
- aligns with and supports academics
- offers portable, transferable credits
- prepares students for postsecondary education and entry into the work force

Course/Program Offerings

- 309 Middle Schools (exploratory programs)
- 357 Comprehensive High Schools (includes combined schools)
- 47 Division-level Centers
- 10 Regional Centers

Governor's Initiatives

- 22 Governor's STEM Academies:
partnerships with 45 school divisions and
businesses
- 8 Governor's Health Sciences Academies:
partnerships with 19 school divisions and
businesses
- Microsoft IT Academy Program:
in 357 high schools and CTE Centers

Enrollment

2011-2012

- 576,454 Duplicated
- 262,952 Unduplicated

Curriculum Framework

Career Clusters are groupings of occupations and industries that are used for:

- Organizing curriculum design
- Assisting with career counseling

Curriculum Framework (cont.)

- Organizing academic and technical knowledge and skills into a coherent sequence
- The cluster level knowledge and skills are correlated with *Workplace Readiness Skills for the Commonwealth*
- Identifying pathways from secondary to postsecondary education

16 Career Clusters

http://www.doe.virginia.gov/instruction/career_technical/career_clusters/index.shtml

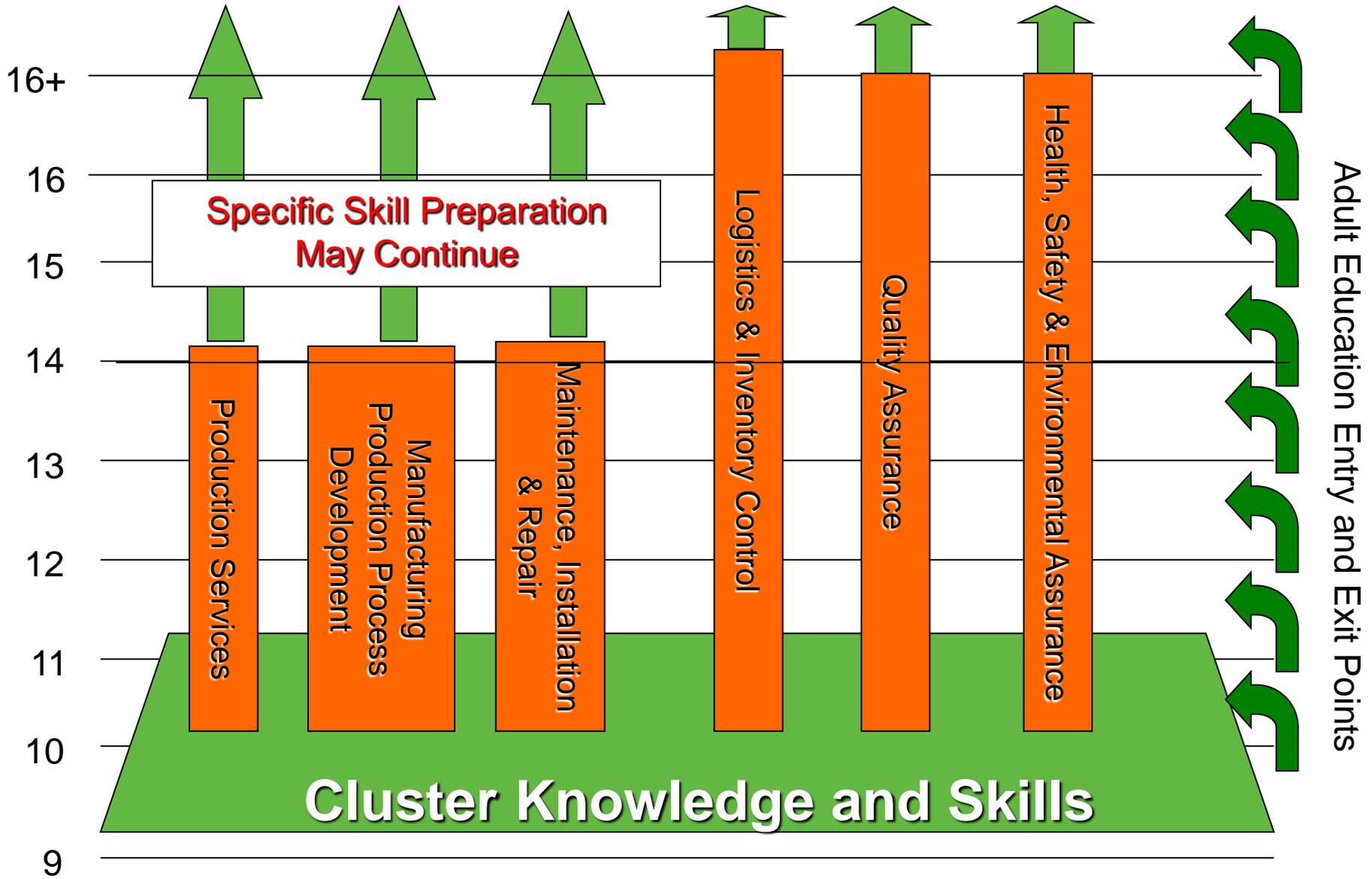
- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communications
- Business Management & Administration
- Education & Training
- Finance
- Government & Public Administration
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections & Security
- **Manufacturing**
- Marketing
- Science, Technology, Engineering & Mathematics (STEM)
- Transportation, Distribution & Logistics



Prepares a student for careers in planning, managing, and performing the processing of materials into intermediate or final products. Sample careers include:

**Machinist, Manufacturing Engineer,
Automated Press Technician, Production
Engineer, Welding Technician, Quality
Technician**

Manufacturing Cluster



Academic and Career Plan (ACP)

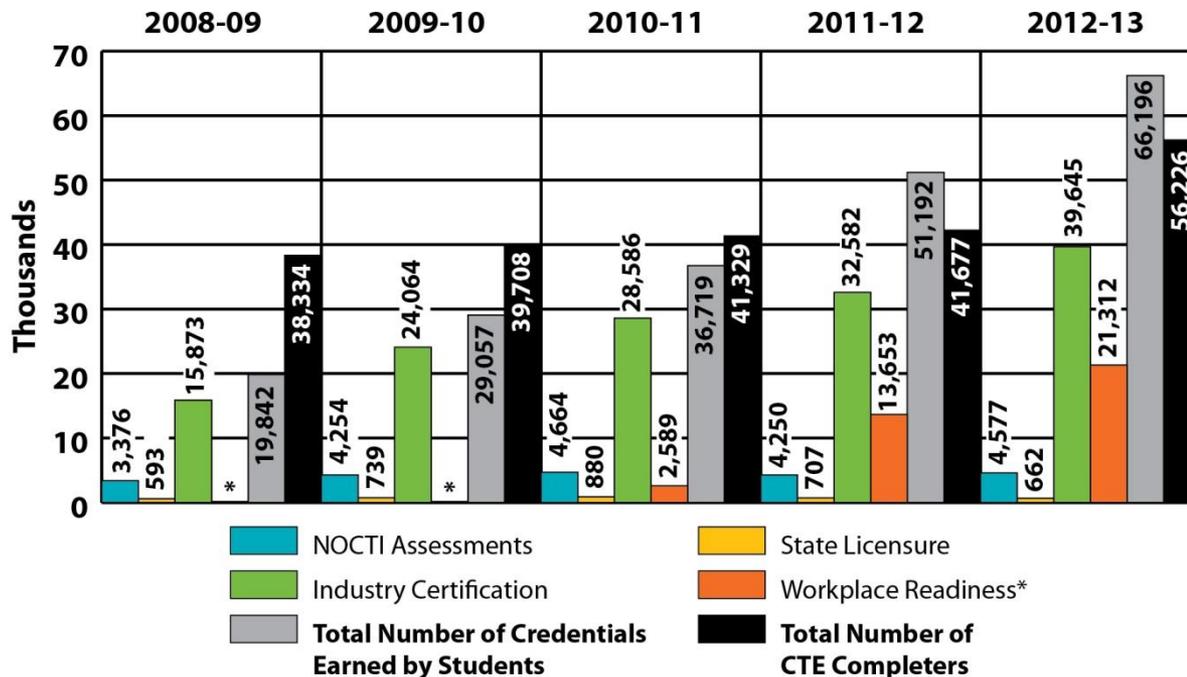
- Beginning with the 2013-2014 academic year, all schools shall begin development of a personal Academic and Career Plan for each seventh-grade student with completion by the fall of the student's eighth-grade year.
- The Plan shall be included in the student's record and shall be reviewed and updated, if necessary, before the student enters the ninth and eleventh grades.

Academic and Career Plan (Con't.)

- Incorporate secondary education and post-secondary education elements
- Include academic and career and technical content in a coordinated, non-duplicative progression of courses
- Lead to an industry-recognized credential or certificate at the postsecondary level, or an associate or bachelor's degree
- Include the opportunity for secondary education students to participate in dual or concurrent enrollment programs or other ways to acquire postsecondary education credits

Credentialing Trends

Virginia's Credentialing Trends

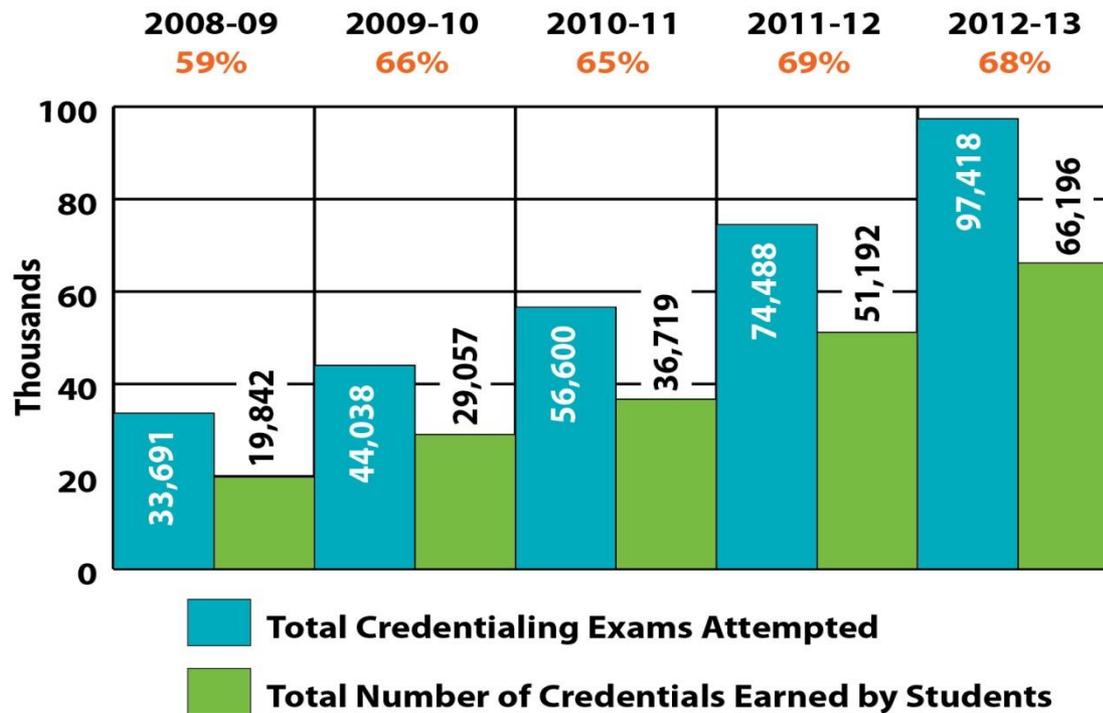


**Prior to 2010-2011, workplace readiness skills assessments were included in the Industry Certification category, but now are reported separately.*

Source: Virginia's School Report Card

Credentialing Trends

Pass Rates of Exams Attempted vs Earned



Note: Totals include multiple exams attempted/earned by individual students.

CTE Curriculum (Resources)

- All CTE courses are aligned with one or more career clusters and career pathways
- Co-curricular Career Technical Student Organizations reinforce program content
- VERSO is organized by Career Clusters and Pathways, as are the Administrative Planning Guide, the Career Planning Guide, and CTE Reporting System User's Manual
- The Trailblazers Newsletter supports CTE programs with current labor market research

<http://cteresource.org/verso/>

<http://www.cteresource.org/apg/>

www.cteresource.org/cpg/

http://www.doe.virginia.gov/data_collection/instruction/career_tech/cters/users_manual.pdf

Trailblazers@virginia.edu

Career Development and Planning Resources



Virginia Career
VIEW

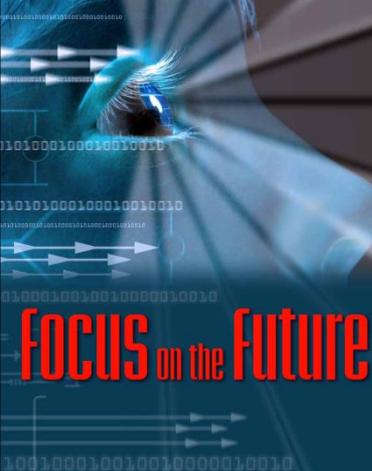
www.vacareerview.org



Virginia Education
Wizard

www.vawizard.org

R U Ready? Resources

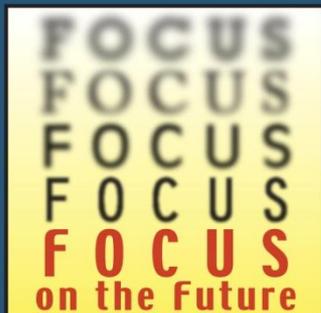


FOCUS on the **Future**

**Parents:
Help your child
develop a career
plan!**



Ready or Not:
A Teaching Companion for **R U
READY?** Magazine



- Career preparation through pathways
- PDF version on the CTE home page
- Online and in print
- Targeted audience: 10th Graders
- Plans for Life After High School
- Parent's Guide
- Teacher's Guide

http://www.cteresource.org/links/career_resources.html

Challenge

CTE has a critical role in ensuring that high school graduates have the **Academic Skills + Employability Skills + Technical Skills** for successful transition to further education and entry into the workforce.

Contact Information

Lolita B. Hall, Director

Office of Career and Technical Education Services
Virginia Department of Education
P. O. Box 2120
Richmond, Virginia 23218-2120

cte@doe.virginia.gov; 804-225-2051

CTE Web site:

http://www.doe.virginia.gov/instruction/career_technical/

CTE Resource Center Web site: <http://CTEresource.org>