



2015-2016

HIGHLIGHTS

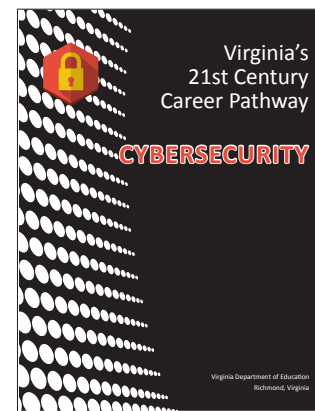
An Annual Report of the CTE Resource Center,
Serving Career and Technical Education in Virginia

In 2015-2016, the CTE Resource Center recorded another year of serving career and technical education teachers and administrators across the commonwealth with the continued support of the Virginia Department of Education, which funds and oversees our project, and from Henrico County Public Schools, which administers our grant. As always, the past year has brought a variety of work to the Center.

Ongoing Curriculum Emphases

CanDo: The CanDo online competency tracking system continues to gain users in the commonwealth's school divisions. During the 2015-2016 school year, 42 school divisions used CanDo.

Cybersecurity: Development of a Cybersecurity curriculum framework began in earnest in the fall of 2015. Experts from business and industry, along with representatives of higher education and K-12 educators met to outline the commonwealth's needs and to address building a workforce pipeline that starts with K-12 and prepares students for cybersecurity careers and advanced education. In the spring of 2016, Virginia's high school career and technical education educators, representatives of higher education, and business/industry representatives met to develop the curriculum that will become the foundation for developing fast-growth cybersecurity career pathways.



For the Record

CTE Resource Center records show that in the past 34 years, since 1982-1983, the Center has

- * Distributed more than five million curriculum documents
- * Conducted 2,295 searches for patron-requested information
- * Developed 3,056 curriculum products
- * Loaned more than 21,100 library items and acquired more than 11,876 library titles
- * Facilitated or presented to 2,129 groups, addressing more than 46,546 educators and business/industry representatives.

Thank You

We appreciate the continued support from the commonwealth and all localities in our 34 years of providing needed resources to CTE administrators, teachers, and school counselors. We are grateful for the opportunity to serve CTE in Virginia.

As always, we welcome your comments and suggestions. Many of our best ideas and improvements have come from your requests!

ANNUAL ACTIVITY REPORT

Curriculum Development

During 2015-2016, the Center completed 102 products and services in collaboration with the Department of Education and localities.

DEPARTMENT OF EDUCATION

Academics (5)

History SOL Curriculum Frameworks
Implementing the Foreign Language
SOL in Virginia Classrooms
Music SOL Instructional Strategies
Physical Education Frameworks
Theater Arts Curriculum

Agricultural Education (2)

Biological Applications Framework
Revision
Foundations of Agriculture, Food, and
Natural Resources Framework Revision

Business & Information Technology (6)

Design, Multimedia, and Web
Technologies, Advanced Framework
Revision
Design, Multimedia, and Web
Technologies Framework Revision
FBLA Competitive Event Judging
International Baccalaureate
Informational Technology in a Global
Society Framework Revision
Virtual Enterprise Case Study 2016:
Human Resources
Virtual Enterprise Case Study 2016:
Marketing

Career Connections (2)

R U Ready? Magazine 2015
Ready or Not 2015

Family and Consumer Sciences (4)

GRADS Framework Revision
GRADS Work Framework Revision
Independent Living (Resource
Management) Framework Revision
Life Planning Framework Revision

Health & Medical Sciences (8)

Dental Assistant I Framework Revision
Dental Assistant II Framework Revision
Introduction to Nutrition for Health and
Medical Sciences Framework Revision
Medical Laboratory Technician I
Framework Revision
Medical Laboratory Technician II
Framework Revision
Nurse Aide I Framework Revision
Nurse Aide II Framework Revision
Sterile Processing Technician Framework

Marketing Education (4)

Hotel Management and Operations
Framework Revision
Opportunities in Global Trade,
Advanced, Framework Revision

Opportunities in Global Trade
Framework Revision
Travel and Tourism Marketing and Sales
Framework Revision

Technology Education (5)

Civil Engineering and Architecture
(Project Lead the Way) Framework
Revision
Computer Integrated Manufacturing
(Project Lead the Way) Framework
Revision
Introduction to Engineering and Design
(Project Lead the Way) Framework
Revision
Modeling and Simulation Technology
Framework Revision
Principles of Engineering (Project Lead
the Way) Framework Revision

Trade & Industrial Education (14)

Building Management I Framework
Revision
Building Management II Framework
Revision
Building Management III Framework
Revision
Cabinetmaking I Framework Revision
Cabinetmaking II Framework Revision
Cosmetology I Framework Revision
Cosmetology II Framework Revision
Cosmetology III Framework Revision
Entertainment Design and Technology
Framework Revision
Industrial Maintenance Technology I
Framework Revision
Industrial Maintenance Technology II
Framework Revision
Marine Service Technology Framework
Revision
Small Engine Technology I Framework
Revision
Small Engine Technology II Framework
Revision

Editorial and Production Services (23)

2015-16 SkillsUSA Advisor Manual
2016 Experience Works Program
Career Cluster Posters 2016
Children's Engineering Conventions
Presenters
Children's Engineering Journal
Creating Excellence 2016 Program
CTE Resource Center Web Page
Navigation Video 2016
CTE Week PowerPoint
CTERS Manual Review 2015

Cybersecurity White Paper
Issues and Solutions 2015-16
VDOE Civil Rights and Federal Program
Monitoring Videos 2015
VDOE Health and Safety Video 2015
VDOE Academic and Career Plans of
Study, Part I, Video 2015
VDOE Financial Guidance and Reports
Video 2015
Virginia ACTE article (Capitol
Connections) editing
Virginia ACTE Fact Sheet 2015-16
Virginia ACTE Leadership Seminar
Virginia ACTE Membership Video
VACTEA Conference Program
VAME Conference Program
VATIE Conference Program
VTEEA Summer Conference Brochure

Instructional Resources (5)

STEM Brief (5)

Meeting/Facilitation Services (22)

Creating Excellence Judging Panel
CTE Advisory Committee (3)
Design Engineering and Technology
Staff Development
History and Social Science Curriculum
Framework External Committee
Meeting
Meade Scholarship Review
Music SOL Instructional Strategies
Revision Meeting (3)
Strategic Review of Technology
Education Educators Panel
Teacher Turnover Stakeholder Group
Technical Theater Guidelines
Collaborative Meeting
VAHAMSEA Board Meeting
Virginia Fine Arts Coalition (2)
Visual Arts SOL Instructional Strategies
Curriculum Development
Visual Arts SOL Instructional Strategies
Revision Meeting (5)

LOCALITIES (1)

Workplace Readiness Skills/Career
Cluster Handout (Hanover)

CENTER PRODUCTS (1)

Highlights/Annual Report 2014-2015

SUMMARY

Total DOE Products 100
Total Local Products 1
Total Center Products..... 1

Total Products 102

Printing

In 2015-2016, the Center coordinated the Department of Education-approved printing or CD duplication of 481 copies of 4 items.

Search

The Center's search service focuses on filling non-routine information requests by providing library, web, and other resources. During 2014-2015, the Center addressed 15 research requests:

- ◆ Department of Education..... 15
- ◆ Field Requests (localities)..... 5

Lending Library

This year, the CTE Resource Center determined that the library should shift from a circulation-based system to one that provides research and resources. The Center will continue to make its library resources available to visiting teachers and to our curriculum review teams.

Distribution

In 2015-2016, the Center continued distributing printed, web-based, and electronic documents to Virginia educators. Fig. A breaks down the distribution.

VERSO is the primary method of distributing CTE task lists, student competency records, and instructional frameworks. The statistics for VERSO distribution are identified separately, then included in the Center's total figures for distribution.

Figure A: Materials Distributed, 2015-16

CTE (Non-VERSO) Distribution	
Print	29,903
CD	339
Electronic (PDF, Word, PPT, HTML)	8,294
Totals	38,536

Inservice Programs

In 2015-2016, the Center presented or facilitated 55 inservice programs and workshops to approximately 1,233 people. Thirty meetings were held at the Center to revise curriculum; the Center hosted meetings of business/industry experts to review the existing curricula and hosted teachers at curriculum development meetings to create rigorous, relevant curriculum frameworks. The Center also conducted 32 curriculum development meetings "virtually," through live video conferencing with writer/editors at the Center and business/industry experts and teachers at remote locations. Other Center presentations were held for school divisions and the Virginia Department of Education professional development and training sessions, while others highlighted the Center's services and products. The Center also exhibited at nine conferences.

Meeting Facilities Use

During 2015-2016, the Center hosted 44 groups and other meetings, primarily for the Virginia Department of Education's Office of Career and Technical Education and for Henrico County Public Schools. Approximately 1,000 business representatives, State CTE Advisory Committee members, administrators, school counselors, teachers, and students attended meetings at the Center.

CTECS

The Center managed Virginia's 2015-2016 program initiatives with the Career and Technical Education Consortium of States (CTECS). The year's work continued to focus on the Workplace Readiness Skills for the Commonwealth.

Web Statistics

The Center's website has become a primary vehicle for news articles, online resources, and major announcements about CTE curriculum activities across the Commonwealth. Through the site, educators have access to all Virginia CTE task lists, student competency records, and instructional frameworks, as well as library holdings, featured resources lists, and links to valuable education-related websites.

Figure B: Web Activity, 2015-2016

Main Categories	Page Views
About/Home	68,527
Services	10,431
Library	6,444
Links	7,876
Career Planning Guide	45,043
Administrative Planning Guide	109,212
VERSO	2,093,874
CanDo	3,044
Total	2,344,451

CTE Resource Center Products

The Virginia Department of Education contracts with the Center each year to develop a specified number of curriculum-related products. Development consists of any combination of research, writing, editing, design, and production.

CTE Resource Center Services

The Center provides services to the Virginia Department of Education and local school divisions to aid in the design and implementation of career and technical education programs.

Distribution: Virginia's Educational Resource System Online (VERSO) is the Center's primary method of distributing CTE curriculum. This web-based system allows educators, using the 16 Career Clusters, to search for CTE task lists, student competency records, and instructional frameworks and provides them the ability to print basic course elements.

The few documents that are still printed are distributed according to Department of Education specifications and are available free of charge to Virginia career and technical educators.

Local development assistance: Career and technical educators benefit from many services provided by Center staff:

- * Occupational research and analysis
- * Facilitation of curriculum development teams
- * Suggestions for resources

Search: Patrons request resources on a specific education-related topic or subject area. Staff members select appropriate print or electronic items from the Center's holdings, and the Center librarian conducts an Internet search for relevant materials.

Library: Using the online library catalog of 7,000+ titles, educators may search and request items through the Center's website.

Printing: The Center coordinates printing and CD duplication of new and previously developed Virginia publications. The Center also provides this service on a cost-recovery basis to school divisions.

In-service programs: Local educators may request curriculum-related in-service programs and training sessions designed for specific audiences, delivered at the Center or in a locality. Requests have included

- * introductory sessions on VERSO
- * information sessions on CTE Resource Center resources for teachers
- * presentations about Workplace Readiness Skills for the Commonwealth and All Aspects of Industry
- * training sessions for curriculum development teams
- * workshops on using the web as a teaching resource
- * training sessions on CanDo, the online competency tracking system
- * facilitation of business/industry panels to develop/validate task lists.

Ordering: To use VERSO, Virginia educators may visit www.cteresource.org/verso. Teachers and administrators may also place orders for printed materials or request information directly.

Center Assignments 2016-2017

In process for revision are 69 courses:

- » Agricultural Power Systems
- » Agricultural Power Systems, Advanced
- » Agricultural Production Management
- » Agriscience Exploration
- » Aquaculture Infusion Units
- » Architectural Drawing and Design
- » Barbering I/II/III
- » Beauty Salon Assistant
- » Biomedical Innovation (Project Lead the Way)
- » Biomedical Technician
- » Career, Community and Family Connections
- » Career Interpretation-Phase II
- » Career Investigation-Phase I
- » Communications Systems
- » Computer Networking Hardware Operations I/II/III/IV
- » Computer Systems Technology
- » Construction Technology
- » Cosmetology I/II/III
- » Cybersecurity
- » CyberTech
- » Diesel Equipment I/II/III
- » Digital Visualization
- » Drafting I/II/III
- » Education for Employment-Development-Intro.
- » Education for Employment, Level I-Development
- » Education for Employment, Level I-Preparation
- » Education for Employment, Level II-Development
- » Education for Employment, Level II-Preparation
- » Education for Employment-Preparation-Intro.
- » Electricity I/II/III
- » Engineering Design and Development (Project Lead the Way)
- » Engineering Drawing and Design
- » Fisheries and Wildlife Management
- » Graphic Communications Systems
- » Health Assisting Careers
- » Health Informatics
- » Human Body Systems (Project Lead the Way)
- » Individual Development
- » International Baccalaureate Approaches to Learning (ATL)
- » International Baccalaureate Design Technology I/II
- » Introduction to Animal Systems
- » Introduction to Mortuary Science
- » Introduction to Power, Structural, and Technical Systems
- » Inventions and Innovations
- » Introduction to Technology
- » Introduction to Virginia Teachers for Tomorrow
- » Medical Interventions (Project Lead the Way)
- » Mental Health Assisting Careers
- » Office Administration
- » Radio Communications I/II
- » Sustainability and Renewable Technologies
- » Technical Drawing and Design
- » Technological Systems
- » Television and Media Production I/II/III
- » Virginia Teachers for Tomorrow I/II

All frameworks will be published in June 2017 so that teachers and administrators may plan their 2017-2018 classroom instruction.

About the CTE Resource Center

The CTE Resource Center is a Virginia Department of Education grant project administered by Henrico County Public Schools.

The Center welcomes visitors Monday through Friday, 8:00 a.m. to 4:30 p.m. We invite you to visit the Center, browse our library holdings, and use our meeting rooms.

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