



CAREER AND TECHNICAL EDUCATION (CTE): A STATE AND NATIONAL UPDATE

August Administrator's Conference

Missouri Department
of Elementary and Secondary Education

Presenters

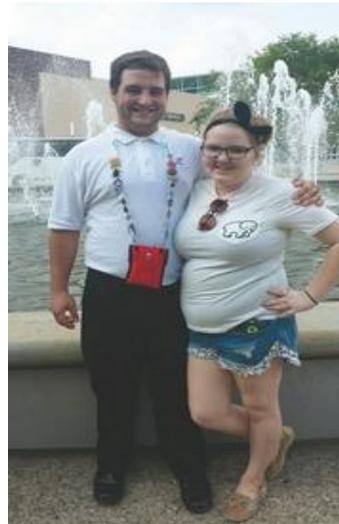
- Dennis D. Harden, Ed.D.
Coordinator , Career Education
DESE/Office of College and Career Readiness

- Jackie Jenkins
Director, Lake Career and Technical Center
Camdenton School District



Why CTE?

Jeremy, Newburg High School Graduate
9th Place Finish at SkillsUSA Championships in
Telecommunications Networking



Why CTE?

“Workforce opportunities continue to change, and education and skills programs need to change too. It is critical that all of our young people have opportunities to prepare for high-wage, 21st century jobs, regardless of who they are or where they come from. Such preparation is essential for the economic growth and strength of our nation.”

Stanley S. Litlow, IBM Vice President and former deputy chancellor of New York City Public Schools



Why CTE?

5

- According to the Business Roundtable, 95% of American CEOs believe their companies suffer from a skills shortage.

“ Career and Technical Education (CTE) provides an opportunity to bridge that gap, by providing real world, hands-on exposure to fields to students while they are still in school and can choose a pathway to a growing career.”

Dane Linn, Business Roundtable Vice President for Education and Workforce



The Benefits of CTE

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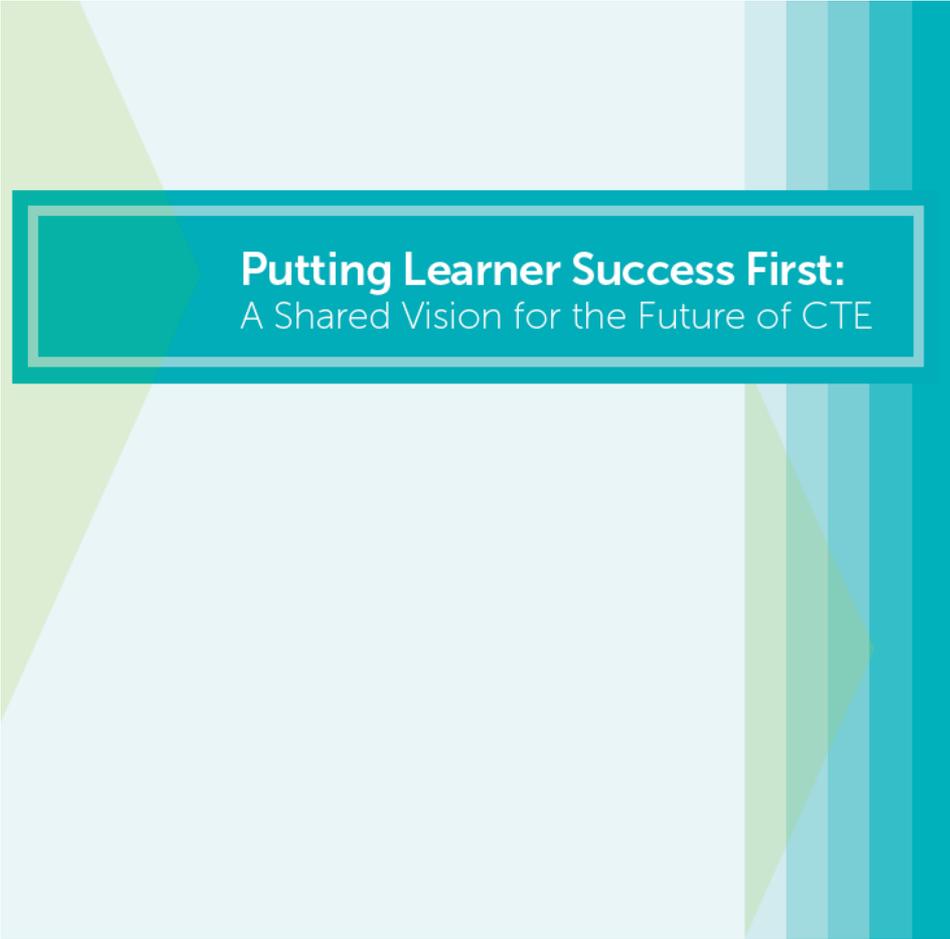
- Better Career Prospects
- 21st Century Occupations
- Dropout Prevention
- Helping the Unemployed and Underemployed



Why is CTE Becoming Increasingly Important?

- Numerous studies and reports recognizing the importance of CTE to the educational system in the United States.
- Skills Gap
- Federal Legislation
 - Workforce Innovations and Opportunities Act (WIOA)
 - Every Student Succeeds Act (ESSA)
 - Perkins Reauthorization





Putting Learner Success First:
A Shared Vision for the Future of CTE



A Shared Vision for the Future of CTE

- Convened stakeholders to develop a vision and framework of principles and action steps that demands commitment from the full range of national, state, and local stakeholders to improve not only CTE but the education system as a whole.



Vision Supporters



NATIONAL SKILLS COALITION



U.S. CHAMBER OF COMMERCE FOUNDATION



A Shared Vision for the Future of CTE

- All CTE programs are held to the highest standards of excellence.
- All learners are empowered to choose a meaningful education and career.
- All learning is personalized and flexible.
- All learning is facilitated by knowledgeable experts.
- All systems work together to put learner success first.





Perkins Reauthorization

Perkins Reauthorization

- *Strengthening Career and Technical Education for the 21st Century Act*
 - Passed the House Education Committee with Bi-partisan support
 - Moves to the full House of Representatives for a vote.
 - No Senate bill at this time
 - Timeframe for a new bill is not known at this time.



Perkins Reauthorization

- Similarities to current legislation:
 - Allocation formulas the same
 - Academic core indicators of performance (Secondary)
- New items:
 - Definitions for Secondary and Postsecondary Concentrators
 - Fewer Core Indicators of Performance
 - Local comprehensive assessment of CTE needs every two years





CTE In Missouri

CTE in Missouri

- 57 Area Career Centers
 - Four located on community college campuses
- 437 Comprehensive High Schools (includes one charter school)
- 1 State Technical College
- 12 Community College Districts
- 7 Four-year Institutions (Associate degree and certificate programs)
- 2 State Agencies
 - Department of Social Services
 - Department of Corrections



CTE Program Areas

- Agriculture Education
- Business, Marketing, and Information Technology
- Family Consumer Sciences
 - Family Focused
 - Occupational, ie. Culinary Arts, Early Childhood, etc.
- Health Sciences
- Skilled Technical Sciences
- Technology and Engineering
 - Project Lead The Way (PLTW) Only



Participation in CTE

School Year	Secondary	Post Secondary	Adult *
2013-14	177,679	67,170	2,226
2014-15	186,391	65,929	2,048
2015-16*	178,601	63,275	1,905

* Preliminary Data



Participation in Secondary CTE

64%

Percentage of all high school students in grades 9-12 who participated in at least one CTE course or program during the 2015-16 school year.



Secondary Concentration in CTE

School Year	Number of CTE Concentrators	Graduation Rate
2013-14	25,622	94.39%
2014-15	27,112	95.92%
2015- 16*	27,772	96.22%

* Preliminary Data

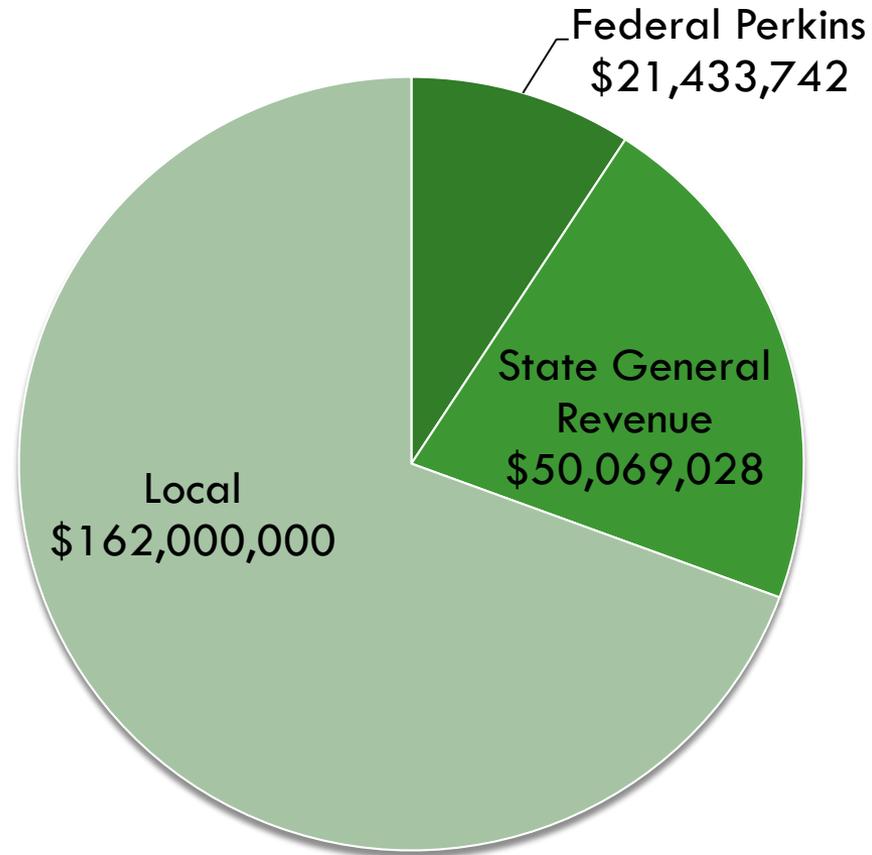


Placement 2015

Placement Status	Secondary	Percentage	Post Secondary	Percentage	Adult	Percentage
Employed	12,742	23%	3,760	58%	1,062	83%
Continuing Education	37,682	77%	662	10%	125	9%
Military	1,775	3%	13	1%	1	1%
Other: Includes Not employed, Not available, or Status Unknown	3,340	6%	2,036	31%	89	7%
	46,710	100%	6,471	100%	1,277	100%



Funding CTE in Missouri



Career and Technical Student Organizations (CTSOs)

- Eleven (11) CTSOs are operated in Missouri and recognized by the US Department of Education
- Over 76,000 Missouri students participated during the 2014-15 school year
- Five (5) CTSOs ranked in the top 10 nationally for student membership.
- Career and Technical Students Organizations (CTSOs) are an intra-curricular element of all Department-approved career education programs.
- CTSOs provide students with leadership skills, career competency, community service, and school service.



CTSO Successes

- ❑ **Missouri FBLA** has the second largest membership in the nation.
- ❑ **FBLA** National President is Niel Patel from Crest Ridge High School
- ❑ 466 **Missouri FFA** Members earned their American FFA Degree in 2016, more than any other state.
- ❑ Marshall **FFA** earned the title of Top FFA Chapter in the Nation 2015
- ❑ 19 students received medals at National **SkillsUSA** Leadership and Skills conference with 109 students placing in the Top Ten.
- ❑ **Missouri FCCLA** is the 5th Largest State Chapter in the Nation.
- ❑ **Missouri DECA** will be offering **two new learning opportunities** this fall.
 - ❑ *CTSO Survivor* | New Advisor Training | September 14 | Jeff City (in conjunction with FBLA)
 - ❑ *Forward into the Future* | Chapter Officer Retreat | September 18 – 20 | Branson



What's Happening in Missouri

- SB620
 - CTE Advisory Council appointed by the Commissioner of Education
 - CTE Certificate
- Interim CTE Advisory Committee
- Ad Hoc CTE Funding Committee
- Focus on Quality CTE Programs
- Expansion of CTE
- Pathways to Prosperity





SB620 – CTE Advisory Council

SB620 – CTE Advisory Council

- **CTE Advisory Council** composed of 15 members with 11 being appointed by the Commissioner of Education.
 - Director of an area career center;
 - An individual from the business community;
 - A representative from State Technical College of MO;
 - Three current or retired CTE teachers who also serve or served as an advisor to any of the nationally-recognized CTSOs;
 - A representative from a business organization, association of businesses or a business coalition;



SB620 – CTE Advisory Council (Cont.)

- A representative from a Missouri community college;
- A representative from SEMO or UCM;
- An individual participating in an apprenticeship recognize by the Department of Labor and Industrial Relations;
- A school administrator or school superintendent of a school that offers CTE.
- Also to include four members from the General Assembly:
 - Two from House of Representatives
 - Two from Senate



SB620 – CTE Advisory Council (Cont.)

- Three non-voting Ex Officio Members:
 - DESE Director of School Counseling
 - Director of the Division of Workforce Development
 - A member of the Coordinating Board for Higher Education, as selected by the Coordinating Board





SB620 – CTE Certificate

SB620 – CTE Certificate

□ CTE Certificate –

- The 98th Missouri General Assembly passed legislation (SBs. 620 & 582) which charged the State Board of Education, in consultation with the Career and Technical Education Advisory Council to establish minimum requirements for a career and technical education (CTE) certificate that a student can earn in addition to his or her high school graduation diploma.
- Students entering high school in school year 2017-2018 and thereafter shall be eligible to earn a CTE certificate.





Interim CTE Advisory Committee

Interim CTE Advisory Committee

- Started in response to original legislation that required a CTE Advisory Committee appointed by the Governor.
- Membership was closely aligned to membership required in legislation.
- Met quarterly for two years.
- Topics included:
 - CTE Funding
 - CTE Data Collection
 - Quality CTE Programs





Ad Hoc CTE Funding Committee

Ad Hoc CTE Funding Committee

- Convened in December 2015
- Purpose to review, revise and make recommendations to DESE regarding CTE funding (State General Revenue only)
- New funding plan in place for the 2017-18 school year
- Facilitated by Central Comprehensive Center, College and Career Readiness and Success Center, and Center on Innovation in Learning in conjunction with staff from OCCR.





Focusing on High Quality CTE

High-Quality CTE Programs

- National Conversation Around High-Quality Career and Technical Education Programs
 - Policymakers
 - Practitioners
 - Influential Education and Workforce Development Stakeholders
 - Multiple Perspectives



References to High-Quality CTE Programs

“Federal CTE funds should only support high-quality CTE programs of study.”

National Association of State Directors of CTE Consortium/Recommendations for the Reauthorization of the Carl D. Perkins Career and Technical Education Act

“Ensuring all students have access to high- quality CTE programs in high schools and postsecondary institutions.”

ACTE/Reauthorization Priorities for Perkins



References to High-Quality CTE Programs

“Effective, high-quality CTE programs are aligned with college- and career-readiness standards as well as the needs of employers, industry, and labor.”

USDE/Investing in America’s Future, A Blueprint for Transforming CTE

“Research to guide in the creation of high-quality CTE programs.”

National Alliance for Partnerships in Equity/NAPE 2013 Perkins Act Reauthorization Position Paper



Four Critical Elements

- Rigorous Programs/Curriculum
- Effective Pedagogy
- A Systems Approach (alignment between levels and sectors of education and industry)
- Professional Development

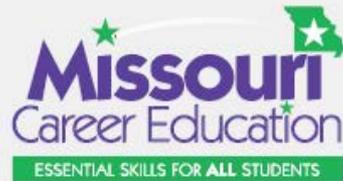
Jim Stone, Director, NRCCTE

*Keynote Presentation to the United Federation of Teachers and
Albert Shanker Institute, 2013*



Common Criteria and Quality Indicators

for Career Education Programs



Office of College and Career Readiness

Missouri Department of Elementary and Secondary Education



Common Criteria and Quality Indicators

- Developed over a two-year time span by DESE CTE Program Staff
- Based off work done by Southern Regional Education Board and other research focused on CTE quality programs.
- Reviewed and recommended approval by the Interim CTE Advisory Committee
- Formal release in July 2015
- Currently only used as a resource to CTE programs for annual program evaluation.



Common Criteria

Common Criteria	# of Quality Indicators
Programs of Study	4
Curriculum	3
Instruction	8
Assessment	3
Career and Technical Student Organizations	5
Program Management and Planning	4



Evaluation and Program Improvement Tool

Three Parts to Evaluation and Program Improvement Tool:

- Rubric
- Suggested Documentation
- Program Improvement Template





Expansion of CTE – MSIP5

Expansion of CTE

- LEA may receive two points toward 10 points on MSIP Standard 3*4 by creating and entering in partnership with area career centers, comp high schools, industry and business to develop a pathway.
 - Enroll in a program of CTE while in high school;
 - Participate and complete an internship or apprenticeship during the final year of high school;
 - Obtain the industry certification or credentials applicable to their program or career and technical education and internship or apprenticeship.



Expansion of CTE

- 118 districts approved for two points
- Reflected on 2015-16 APR
- For two points in following years, must continue to expand additional CTE programs.





Pathways to Prosperity

Pathways to Prosperity

- Continue with Pathways for Teachers
 - Since 2013-14, over 400 teachers, counselors and administrators have participated
- DESE Grant Opportunity – 2016-17 school year
- Missouri Post-Secondary Success – project jointly sponsored by DESE and University of Kansas Center for Research on Learning
- **Contact: Lloyd Healy, DESE Pathways Manager, lloyd.healy@dese.mo.gov**



Questions and Information

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