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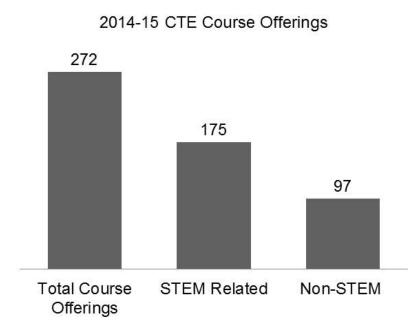
Supplemental Report: 1.2.f. Increase project-based, career, workplace, community learning opportunities that provide STEM and 21st century skills with career and technical education (CTE)

1.2.f Increase project-based, career, workplace, community learning opportunities

Background: Increase learning opportunities that provide STEM and 21st century skills with Career and Technical Education (CTE)

- Provides academic enrichment
- Offers students a broad array of services and employment options within their local community and globally
- Offers work-based learning opportunities to students by extending learning into the employment
- Articulation agreements with community and technical colleges yield high graduation and employment rates

Current State: 64% of courses offered emphasize STEM concepts



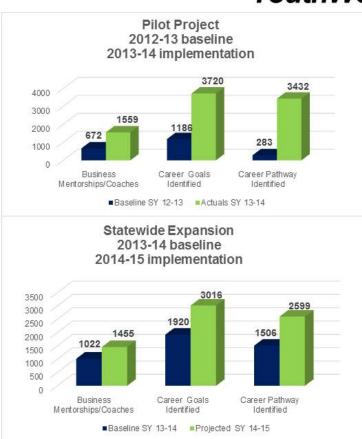
- · 272 unique CTE courses
 - STEM courses Science, Technology, Engineering, or Mathematics
 - Non-STEM courses other academic learning standards (English Language Arts, Health, Art, Social Studies, etc.)
- · 2014-15 data:
 - · 64% (175 courses) STEM
 - · 36% (97 courses) non-STEM
- · 2015-16 goal:
 - Increase number of course offerings
 - 70% STEM
 - · 30% non-STEM

1.2.f Increase project-based, career, workplace, community learning opportunities

Strategies

Need	Program
Partner with the workforce system	YouthWorks
Develop and implement CTE course equivalency programs that meet academic requirements	CTE course equivalencies
Keeps students in school & graduate with a diploma	Job for Washington Graduates
Provide project-based STEM opportunities for middle school youth	Middle School STEM
Provide dual credit opportunities	TechPrep Articulations

YouthWorks



- Employment Security and OSPI partnership
- Mentorships, internships or other work-based learning activities with local businesses
- Pilot project in Renton,
 Spokane, Evergreen
 (Vancouver), Wenatchee,
 Yelm in 2012-13
- Statewide expansion in 2013-14
- Increased funding through WIA funding

1.2.f Increase project-based, career, workplace, community learning opportunities

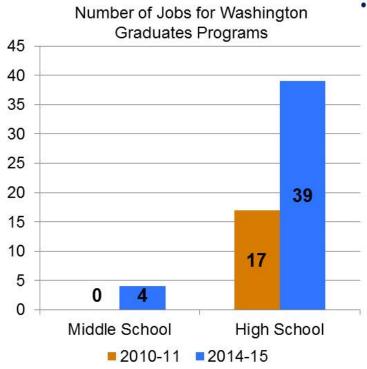
CTE course equivalencies

Size of	Total	Math	Science
District*	Districts	Courses	Courses
1-2,500	155	45	58
2,500-5,000	38	21	27
5,000-7,500	16	7	16
7,500-10,000	11	5	9
10,000-12,500	5	4	4
12,500-15,000	6	6	5
15,000-17,500	3	2	3
17,500-20,000	6	5	4
20,000-22,500	3	2	3
22,500-25,000	2	1	1
25,000-27,500	2	2	2
27,500+	3	2	3
Total	250	102	135

*Excludes K-8 districts

- Need to develop and implement CTE course equivalency programs that meet academic requirements
- Local school districts follow own course equivalency approval procedures
- Process provides options for students to earn academic credit through CTE in an applied, hands on, project-based manner

Jobs for Washington Graduates

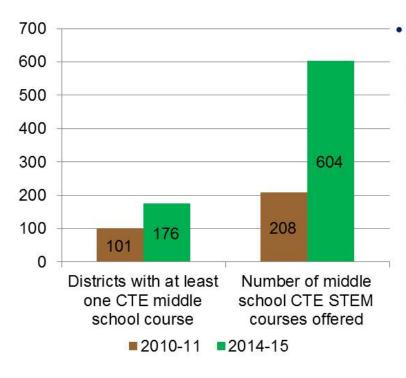


· Goals:

- Keep young people in school through graduation
- Help successfully transition from 8th to 9th grade
- Graduate with a high school diploma
- Provide students with 21st Century Skills Training
- Enable students to obtain occupational specific training
- Connect students to postsecondary and careers after high school

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Middle School STEM



- All CTE middle school must meet STEM requirements
 - Include rigorous math and science state learning standards
 - Incorporate technology and/or engineering standards
 - Reviewed and approved by the OSPI STEM Program Supervisor

TechPrep Articulations

115,798

high school students enrolled in TechPrep articulated courses in 2013-14

- Students earn both high school and community/ technical college credits (dual credits)
- Prepares secondary students for a college technical degree program
- Prepares students for highskill, high-wage careers

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Assistance Needed:

- Incentivize business/industry to partner with school districts to offer internships, mentorships, job shadows, other workbased learning opportunities
- Statewide articulations between secondary and post secondary courses instead of community college by community college
- Support to replicate nationally proven, research based dropout prevention intervention programs with a career readiness focus
- Continued efforts to provide additional statewide CTE equivalencies in core academic areas

Mathematics Equivalencies

CTE Course	Equivalency	
Engineering Design 1	Algebra 1	
Consumer and Family Resources		
Applied Algebra 1		
Financial Math		
Animation Technology Video Graphics*		
Video Game Design/ Digital Computer Animation*	Geometry	
Residential Carpentry*		
Applied Algebra 2	Algebra 2	
Computer Programming	1 credit beyond Geometry	
Business Statistics	Statistics	

Science Equivalencies

CTE Course	Equivalency	
Animal Science		
Plant Science	Biology or lab science	
Natural Resources		
Natural Resources Management & Policy		
Food Science, Dietetics, and Nutrition	Lab science	
Biomedical Sciences		
Biomedical-Body Systems		
Veterinarian Assistant*		
Nursing Assistant*		
Principles of Technology Applied	Physics or lab science	
Computer Programming	Science	

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