

Career & Technical Education Times 2015



10 Things You Should Know About CTE . . .

1. CTE-It's More than a Name Change!
2. CTE is for the Career and College Bound.
3. CTE Students are able to Earn College Credits to give them an extra advantage.
4. CTE Students apply what they learn in Academic Classes—Increasing Retention and Understanding!
5. CTE Instructors are Professionals teaching with up-to-date equipment and technology.
6. Parents and Students can save Money!
7. Programs are designed for the Future.
8. Internships and work-based learning opportunities provide "real world" work experiences.
9. Leadership and Interpersonal Skills are Expanded.
10. CTE Programs are available in almost every Community in South Dakota!



this issue

Review of Education Agenda 2014 **P.1**

CTE Works **P.2**

CTE by the Numbers **P.3**

Academic Integration **P.4**

Review of the State Education & Workforce Agenda 2014

Governor Dennis Daugaard's 2014 State of the State address highlighted initiatives for CTE:

- Providing secondary grants for more high-quality CTE opportunities to students, especially in workforce need areas; the proposals included developing new/improved facilities, dual credit programs, equipment purchases and educator training. It was announced in February 2014 that 12 school districts will share \$8.5 million.
- Scholarships for postsecondary totaling \$1.5 million over the next three years for 20 programs at technical institutes in five critical industries.
- Upgrades of \$3.8 million in equipment for technical institutes.
- Provide funding to reduce the cost of dual credit for students taking in-person or online courses at technical institutes and universities.
- Implementing the National Career Readiness Certificate for 11th and 12th grade students statewide.
- Signed in 2014, S.B. 182 extends dual enrollment to ninth graders.

In 2013, according to the Education Commission of the States, South Dakota passed S.B. 235, which permits 30 percent of the Building South Dakota fund to be transferred to the Workforce Education fund. The Workforce Education fund can be used for secondary career and technical education programs, among other uses. Another 2013 law requires the Department

of Labor and the Board of Regents to work together to track job placement outcomes for postsecondary graduates, and S.B. 3 requires technical institutes to report on the licensure success of their students on an annual basis.

South Dakota's High School 2025 is a student-focused educational experience preparing students to help reach their career goals. It is built on the following desired characteristics:

- Relationships
 - Relevance
 - Rigor
 - Results
- plus leadership and professional development.

Key practices to reach HS 2025 includes CTE courses, industry certification and work-based learning.

Clearly Career and Technical Education (CTE) is working for South Dakota.



Career Clusters

In South Dakota, the nationally recognized Career Clusters® model is being used as a tool for organizing CTE programs, an aid in developing Programs of Study, a basis for the personal learning plan and one of the foundations of the content standards for all CTE programs.

1. Agriculture, Food & Natural Resources
2. Architecture & Construction
3. Arts, A/V Technology & Communications
4. Business, Management & Administration
5. Education & Training
6. Finance
7. Government & Public Administration
8. Health Science
9. Hospitality & Tourism
10. Human Services
11. Information Technology
12. Law, Public Safety, Corrections & Security
13. Manufacturing
14. Marketing
15. Science, Technology, Engineering & Mathematics
16. Transportation, Distribution & Logistics

Source: <http://www.careertech.org/career-clusters/glance/careerclusters.html>

Career and Technical Education Works . . .

for High School Students

High school students involved in CTE are more engaged, perform better and graduate at higher rates.

- 81% of dropouts say relevant, real-world learning opportunities would have kept them in high school.
- The average SD high school graduation rate for students concentrating in CTE programs has been 97% for the past 3 years, compared to the SD high school graduation rate of 83%.
- CTE courses reinforce academic standards while teaching technical skills specific to their career of interest.
- Students learn key components through project-based learning environments. Students also participate in career and technical student organizations.
- All CTE courses provide rigorous coursework. Students are measured on their technical attainment of skills received in every CTE course.

for College Students and Adults

Postsecondary CTE fosters postsecondary completion and prepares students and adults for in-demand careers.

- More than 75% of SD secondary CTE concentrators pursued postsecondary education shortly after high school in 2013.
- A person with a CTE-related associate degree or credential will earn on average between \$4,000 and \$19,000 more a year than a person with a humanities associate degree.

for the Economy

Investing in CTE yields big returns for state economies.

- Key industries in South Dakota are advanced manufacturing; bioscience; financial services; professional business services; energy; shooting, hunting and outdoors; and value-added agriculture.



for Business

CTE addresses the needs of high-growth industries and helps close the skills gap.

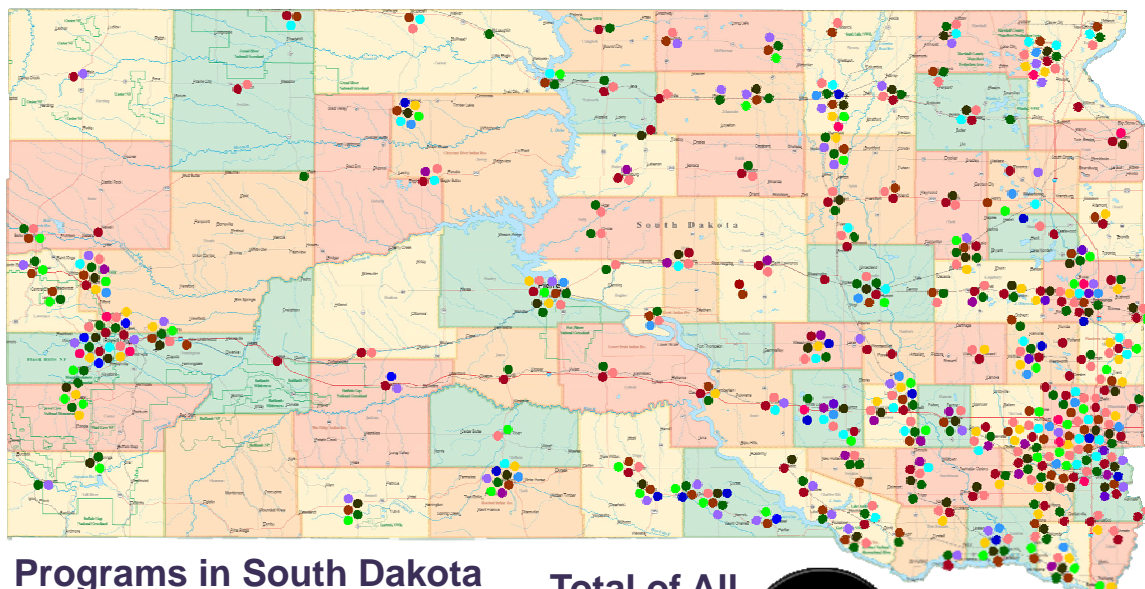
- 64% of CTE students in SD achieved industry-recognized credentials, certificates or degrees.
- The skilled trades are the hardest jobs to fill in the United States, with recent data citing 806,000 jobs open in the trade, transportation and utilities sector and 293,000 jobs open in manufacturing.
- Health care occupations, many of which require an associate degree or less, make up 12 of the 20 fastest growing occupations.
- STEM occupations such as environmental engineering technicians require an associate degree and will experience faster than average job growth.
- Middle-skill jobs, jobs that require education and training beyond high school but less than a bachelor's degree, are a significant part of the economy. Of the 55 million job openings created by 2020, 30 percent will require some college or a two-year associate degree.

College and Career Readiness

South Dakota has adopted the Common Core State Standards (CCSS) and is a governing state in the Smarter Balanced Assessment Consortium, which is developing a next-generation assessment system aligned to the CCSS. The South Dakota Department of Labor issues National Career Readiness Certificates (NCRC). The state is working on full-scale implementation of the National Career Readiness Certificate for 11th and 12th grade students.



Career & Technical Education by the Numbers



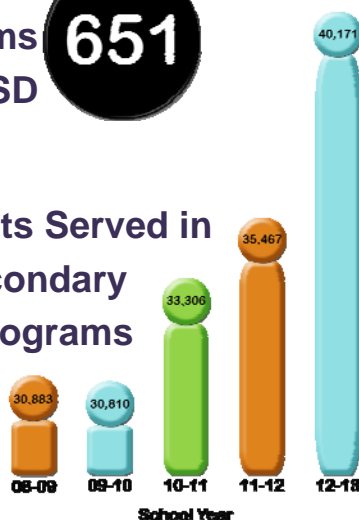
Programs in South Dakota



Total of All Programs in SD

651

Students Served in SD Secondary CTE Programs



South Dakota & Academic Integration

South Dakota has developed content standards based around the Career Clusters and crosswalked to academic standards. CTE standards have always been aligned with the State academic standards. In addition, academic core content credit may be earned by completing an approved CTE course.

At the secondary level, CTE in South Dakota is delivered through a combination of comprehensive high schools; multi-district CTE centers, which provide supplemental CTE courses in a centralized location to students from multiple school districts; tribal schools; and alternative state schools, which provide educational opportunities for those who are outside the traditional school system.

Other initiatives used in addition to HS 2025 are:

- Dakota Seeds—aims to increase the number of internships and assistantships for

undergraduate students. It can provide 50% of the intern's wages with a maximum amount of \$2,000 per intern.

- South Dakota WINS—is a workforce initiative that brings together government, education and business leaders to capitalize on South Dakota's potential. Using SD MyLife and Career Cluster Camps, students gain experience they need to make informed career decisions.
- School improvement options include:
- High Schools That Work—uses research-proven strategies to help states transform their public high schools into places where all students learn at high levels.
- Making Middle Grades Work—through this initiative, middle grades implement strategies that help students transition to high school.
- Career Academies—though they have transformed in the past 35 years, career academies aim to restructure large high schools into smaller learning communities.

CTE Funding

At the Federal level, South Dakota is estimated to have received \$4,214,921 from the Perkins Basic State Grant in FY2014.

The South Dakota State Board of Education is the eligible agency for Perkins, according to the state plan. According to a report from the National Center for Innovation in CTE, the State of South Dakota does not provide categorical funding for CTE. CTE is funded through the state foundational funding formula for LEA allocations.

The state has performance funding in place for community colleges, according to the National Conference of State Legislatures.

CTE Program Performance Data

CTE program performance is reported by states each year to the federal government through the Consolidated Annual Report (CAR) as required by the Carl D. Perkins Career and Technical Education Act. Information





Career & Technical Student Organizations

Each year the career and technical student organizations compete in a variety of contests at the district, regional, state and national level. Student contests may be role-playing, reports, tests, or presentations within its career cluster area. There are several chapters of CTSOs across South Dakota.



CTE State Standards

South Dakota has developed content standards based around the Career Clusters and aligned to the Common Career Technical Core. They include cluster knowledge and skills statements, industry standards and national standards. Advisory committees, business and industry, and secondary and postsecondary teachers were involved in developing, revising and validating core technical skills in all Programs of Study.

Dual Enrollment & Articulation

According to the State Higher Education Policy Database, South Dakota law with respect to dual/concurrent enrollment states that, with prior approval by the school district, any student in grades 10-12 may pursue dual enrollment and get full high school and postsecondary credit for each postsecondary course. In 2014, S.B. 182 extends dual enrollment to ninth graders.

The State Higher Education Policy Database also explains that S.D. Codified Laws Ann. 13-53B-1 requires that all general education courses be transferable between Regents universities and the technical institutes governed by the Board of Education. Articulation agreements are required to ensure students can transfer up to 64 hours for

general studies baccalaureate programs. Articulation agreements and other tools can be found online.

High School Graduation Requirements

Starting with the class of 2014, to graduate with a high school diploma, students must complete a minimum of 22 credits. These credits are comprised of the following: 4 units of language arts; 3 units of mathematics (including algebra I, algebra II and geometry); 3 units of lab science (including biology, a physical science and chemistry or physics); 3 units of social studies; 1 unit of either CTE, a capstone or service learning experience, or world language; 1 unit of fine arts; 0.5 unit of personal finance or economics; 0.5 unit of physical education; and 0.5 unit of health of health integration. Academic core content credit may be earned by completing an approved CTE course. In addition, all students must have a Personal Learning Plan.



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