Table of Contents

TENNESSEE BOARD OF REGENTS CAREER AND TECHNICAL EDUCATION

Letter from the Chair

The Tennessee Council for Career and Technical Education (TCCTE) is pleased to submit the 2008–2009 Biennial Report, which summarizes the delivery system of career and technical education in Tennessee. Through the biennial report, the TCCTE carries out its statutory mission, which is to serve as an independent advocate for quality career and technical education and workforce and economic development and to function as an independent oversight body.

It is a critical time, but a rewarding and exciting time, to be involved in the initiatives of career and technical education and in the economic development of Tennessee. The council conducts evaluations; reviews programs, services, and plans; and makes policy recommendations to the governor, the Tennessee General Assembly, the Department of Education, and the State Board of Education on matters pertaining to career and technical education in the state.

The council promotes coordination, collaboration, and effective partnerships among business, industry, labor, education, and employment training programs to help meet the economic needs of the state. Workforce development initiatives are monitored and recommendations made to integrate successful components in the career and technical education delivery system. Additionally, dissemination of relevant career information, studies, and research findings to teachers, counselors, students, and the general public is a task undertaken by the council.

Finally, the council conducts an annual public forum to hear concerns and receive feedback from leaders in business, industry, education, the legislature, and the general public. Recommendations are made as a result of the forum.

I respectfully submit the 2008–2009 Biennial Report of the Tennessee Council for Career and Technical Education.

Sincerely,

James Neeley, Chairman
Commissioner of Labor and Workforce Development

Tennessee Council for Career and Technical Education Membership

The Tennessee Council for Career and Technical Education consists of thirteen members appointed by the governor to serve in an advisory capacity to the Tennessee Board of Education, Tennessee Board of Regents, the governor, and the Tennessee General Assembly. Members of the council are appointed to six-year terms.

A majority of the membership—seven members—represent the private sector; six are representatives of secondary and postsecondary education, career and technical institutions, and career guidance and counseling organizations within the state and/or persons who have special knowledge and qualifications with respect to the educational and career development needs of special populations.

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Commendations

Commendations and recommendations from the Tennessee Council for Career and Technical Education (TCCTE) are taken from actions taken in the Governor's Office, the General Assembly, the State Board of Education, and the Tennessee Department of Education. Information gained from quarterly TCCTE meetings and the annual public hearing on Career and Technical Education is taken into account. All information is reviewed to develop the commendations and recommendations section of the biennial report.

The Tennessee Council for Career and Technical Education offers the following commendations and recommendations to those whose efforts have made an impact on Career and Technical Education in our state.

Governor of Tennessee

- We commend you for your unwavering financial support and emphasis on education in Tennessee in difficult economic times.
- We commend you for your support in raising academic standards for all students in the state.

General Assembly

- We commend you for Public Chapter 459 and the impact it is having on secondary/post secondary transition.
- We commend you for supporting legislation that strengthens post secondary Career and Technical Education at the post secondary technology centers and community colleges.

Commissioner of Education

- We commend you for your support of all divisions of education in the state.
- We commend you for your support in the implementation of the new high school policy.

Commissioner of Labor and Workforce Development

- We commend you for financing and supporting collaborative initiatives with secondary and post secondary Career and Technical Education.
- We commend you for supporting innovative education training programs to assist displaced workers to reenter the workforce in the state.

State Board of Education

- We commend you for your work and dedication in the establishment of the Tennessee Diploma Project including the high school policy.
- We commend you for consistently supporting state-of-the art Career and Technical Education curriculum standards.

Tennessee Board of Regents

- We commend you for cooperating with the Tennessee Department of Education and the Division of Career and Technical Education in efforts to create secondary/post secondary articulation, dual assessment, and dual enrollment programs.

Division of Career and Technical Education

- We commend you for being national recognition of outstanding Career and Technical Education in Tennessee.
- We commend you for the development and implementation of Programs of Study that lead to a recognized industry certification, associate degree, or baccalaureate degree.
- We commend you for the development and implementation of Programs of Study that coincide with the high school policy and lead to a high skill, high wage, and/or high demand job.
- We commend you for the initial development of skill attainment assessment in Career and Technical Education.

Recommendations

1. Develop a comprehensive professional development program in Career and Technical Education for school counselors, concentrating on the implementation of the CTE Programs of Study, dual assessment and dual credit available in CTE, and the utilization of Career Guidance and Career Assessment tools such as Kuder and TCIDS. Assess problems with implementation and expand to include solutions.

Rationale: Through information gained from study groups such as the 2020 Vision Committee, and the seven Directors of Career and Technical Education study councils, it is recognized that school counselors are key to the success of the implementation of the Programs of Study. It is imperative that school counselors understand the reasoning, and receive assistance in solutions to problems dealing with programs of study at the local level. (*Ready for Tomorrow [ref. Condition 5 & 6], SREB, November 2009*).

2. It is recommended for the Division of Career and Technical Education and Tennessee Board of Regents to develop additional active articulation, dual assessment, and dual enrollment credit between secondary and post secondary institutions in all CTE subject areas.

Rationale: Due to PC 459, an immense amount of successful work has been done in this area, but there remains a considerable amount of articulation, dual assessment, and dual enrollment in many CTE areas yet to be developed. It is recognized that students who enter post secondary education with established credit tend to complete an industry certification, associate degree, or baccalaureate degree. (*Building Transitions from High School to College and Careers for Tennessee's Youth, September 2005*).

3. Expand and encourage innovative courses of study within the career clusters. Programs such as Virtual Enterprise, Career Academies, Project Lead the Way, and Virtual Classrooms.

Rationale: According the Southern Regional Education Board, studies show "when students learn academic knowledge through authentic assignments and applied methods, they grasp abstract concepts more readily" (Ready for Tomorrow, SREB, Nov 2009, p.11).

4. **It is recommended to expand the Career and Technical Education model in the development and approval of all focuses of study. The graduation rate of Career and Technical Education concentrators is consistently above 90%. It was 90.95% for the 2008/2009 school year. The Career and Technical Education Programs of Study were developed along guidelines that strengthen academic attainment, and enhance students' abilities to broaden their educational experience which culminates with the completion of post secondary education.**

Rationale: It is the intention of the Tennessee Diploma Project and Race to the Top grant to strengthen academic performance, raise graduation rate, and improve post secondary completion rate for Tennessee.

The 2008/2009 Biennial Report from the TN Council for Career and Technical Education can be accessed electronically: www.state.tn.us/education/cte_council/publications.shtml

Tennessee Career & Technical Education

Rigor, Relevance, Reason to Achieve

Executive Summary

Students in grades 7 through 12 enrolled in career and technical education (CTE) courses in 2008 in Tennessee numbered 377,634. One hundred four (104) programs of study have been developed, and a total of 2,930 programs are being taught in 125 Tennessee school districts, including three state schools. A CTE student concentrator is defined as a student who receives three credits in a focused CTE course of study. The statewide graduation rate for CTE concentrators is 92.31 percent. For several years, the graduation rate of CTE concentrators has consistently been above 90 percent.

Eighty-five percent of the $26,114,005 Carl Perkins funds received by the State of Tennessee flows through to the 125 local school systems that have CTE. (Eleven school systems are elementary grades only; CTE is a middle and high school course of study.) The Tennessee Board of Regents (TBR) Community Colleges and Technology Centers received $2,231,005 of Perkins funding to focus on the development of articulation credit, dual credit, or dual enrollment credit. Perkins funding in the amount of $5.3 million has been given in grants over a three-year period to local school systems to develop secondary transition programs, programs of study, small learning communities, CTE-themed academies, new and emerging technology programs, and nontraditional projects. The development of innovative programs that integrate higher math, science, and communications—such as Project Lead the Way, Virtual Enterprise, and CTE-themed academies—is being emphasized.

In the 2008–2009 school year, TBR awarded dual credit to 3,227 students in 208 courses. There were 1,127 students in dual enrollment in 147 courses with a 98 percent pass rate. There were 41 statewide CTE articulation agreements in place. As required by the Carl D. Perkins Act of 2006, all CTE secondary and postsecondary programs of study must lead to an industry certification or credential, associate degree, or baccalaureate degree. Students completing an industry certification can earn a diploma of distinction.

Career and Technical Student Organizations (CTSOs) have 65,000 student members. CTSOs are an integral part of the CTE curriculum. Annually, Tennessee has local, state, and national officers and skill placement winners. Tennessee has the most postsecondary CTSOs in the nation. The eight CTSOs are DECA (Marketing), FBLA (Business), FCCLA (Family and Consumer Sciences), FFA (Agriculture), HOSA (Health Sciences), Skills USA (T&I), TSA (Technology Engineering), and TCA (Jobs for Tennessee Graduates).

Career and Technical Education Core Indicators

Student Performance Levels

The Department of Education, CTE Division, is responsible to the Office of Vocational and Adult Education (OVAE) to implement the requirements of the Carl Perkins Act of 2006 (Perkins IV). There are eight core indicators that specify student performance levels. Aligned with No Child Left Behind, annual performance improvement is to be shown in each core indicator. The performance level is set on baseline data and negotiated annually.

A CTE concentrator is defined as a high school student who attains at least three (3) credits in an approved CTE program of study or program area.

Indicator	Description	CTE Student Performance
1S1: Academic Attainment Reading/Language Arts	CTE concentrator performance on the 11th grade Writing Assessment and the English II Gateway Examination	91.53%
1S2: Academic Attainment Mathematics	CTE concentrator performance on the Algebra I Gateway Examination	95.60%
2S1: Technical Skill Attainment	CTE concentrator performance accomplishment of industry-validated competencies per CTE course	96.51%
3S1: Secondary School Completion	CTE concentrator performance in attaining all requirements for graduation	84.94%
4S1: Student Graduation Rates	CTE concentrators graduating from high school	92.31%
5S1: Secondary Placement	CTE concentrator placement, 6 months after graduation, in postsecondary education, the military, or the workforce	91.65%
6S1: Nontraditional Participation	CTE concentrators enrolled in courses with underrepresented gender	19.17%
6S2: Nontraditional Completion	Students who become CTE concentrators in a course of study with underrepresented gender	21.77%

To access more in-depth information on CTE core indicators and student performance levels, locate performance levels for each school system in

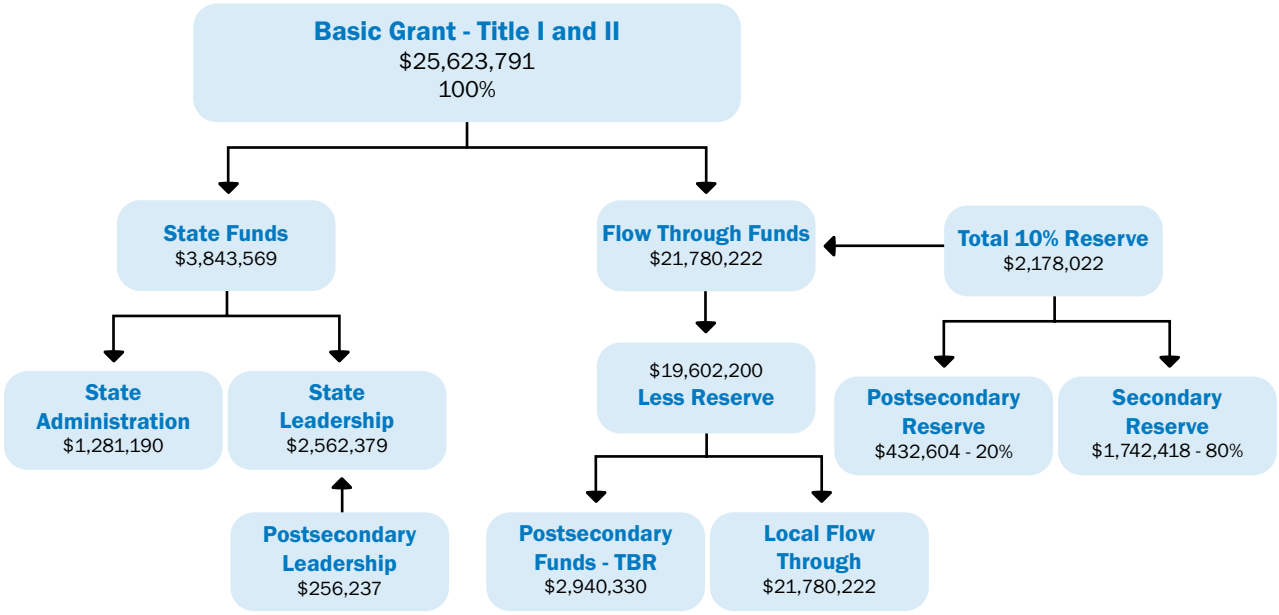
Tennessee, and find Perkins IV information go to http://tennessee.gov/education/cte/ and choose Compliance and Reports and/or CTE Report Card on the left menu.

Gateway Performance Comparison

Academic Attainment 9–12	Total Population	CTE Concentrators
Math*	87%	95.60%
Reading/Language plus Writing*	93%	91.53%
Graduation Rate	81.80%	92.31%

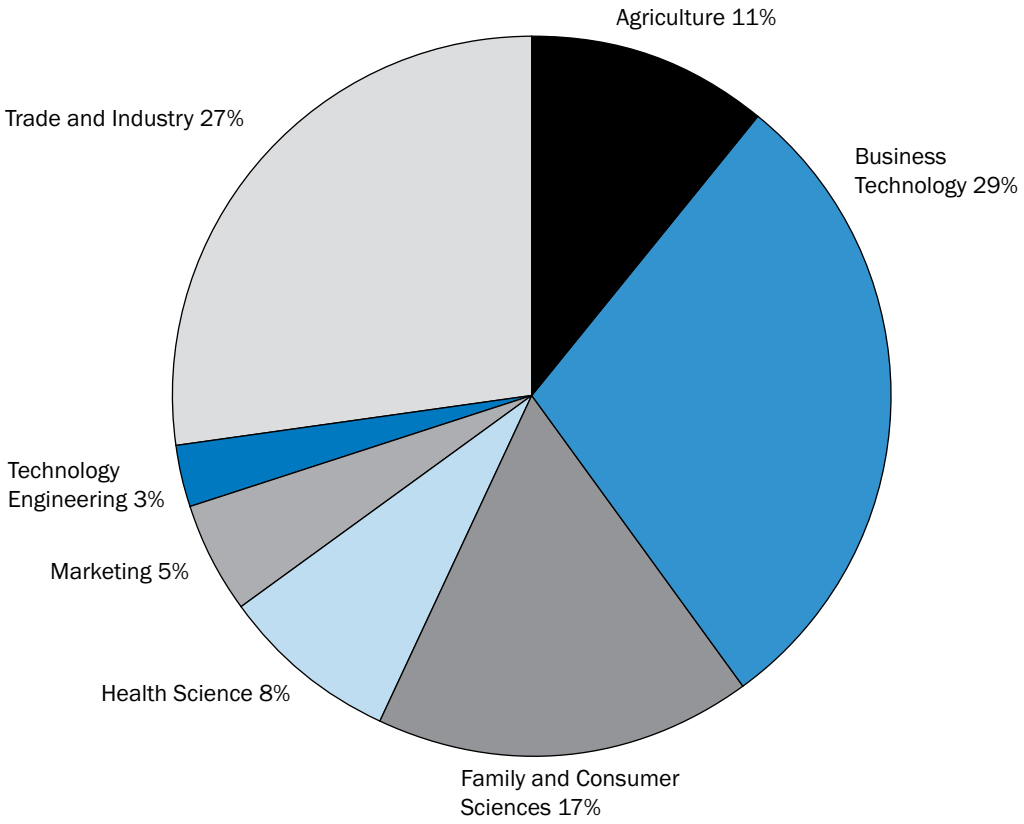
*Includes Advanced and Proficient

Perkins IV Budget Allocation Flow Chart 2008–2009



Secondary Course Enrollment by Program Area and Percentage of CTE Students Enrolled per Area

Program Area	Enrollment	Percentage
Agriculture	33,822	11
Business Technology	92,093	29
Family and Consumer Sciences	55,652	17
Health Science	24,562	8
Marketing	16,663	5
Technology Engineering	9,137	3
Trade and Industry	87,722	27
Total	**319,651**	



Secondary Career and Technical Education Enrollment by Grade Level and Percentage of Total CTE Population by Grade Level

Grade Level	CTE Student Enrollment	Percent of Total CTE Population
12	41,659	20%
11	42,627	20%
10	47,813	23%
9	45,733	22%
8	17,065	8%
7	15,179	7%

Secondary Career and Technical Enrollment by Ethnicity Comparison of CTE Ethnicity Enrollment to the Total Secondary Population CTE Ethnicity Enrollment Percentage of Total CTE Secondary Population

Ethnicity	CTE Secondary	Total Secondary	Percent of CTE total High School Population
African American	38,906	73,432	22%
Asian/Pacific Islander	1,836	4,279	1%
Hispanic	5,515	9,995	3%
Native American/Alaskan	335	604	< 1%
White	124,511	214,531	70%
Unknown/Other	362		< 1%

2008–2009 Tennessee CTE Secondary Student Dual Credit and Dual Enrollment Data

Dual Credit		Dual Enrollment			Dual Credit and Dual Enrollment Tools Combined	
Students	Courses	Students	Courses	Percent Earning Postsecondary Credit	Total Students	Total Courses
3,444	268	2,110	238	86%	5,554	506

Programs of Study within Career Clusters

The U.S. Department of Education divided all careers into 16 groups of occupations called career clusters. These groups are validated by national industries and based on common knowledge and skills deemed necessary for success in the careers.

The Tennessee Department of Education, Division of Career and Technical Education, is implementing the model of clusters developed by the U.S. Department of Education and endorsed by the National Association of State Directors of Career and Technical Education Consortium.

The career cluster model provides a way for schools to organize instruction and student experiences that are relevant to these careers from entry through professional levels. The Division of Career and Technical Education has developed programs of study within the 16 national clusters and 81 pathways developed by the U.S. Department of Education.

Courses in all career and technical education programs align with national knowledge and skills and industry standards. This course structure provides more flexibility to meet the unique needs of high school programs and offers opportunities for dual credit/dual enrollment with postsecondary programs.

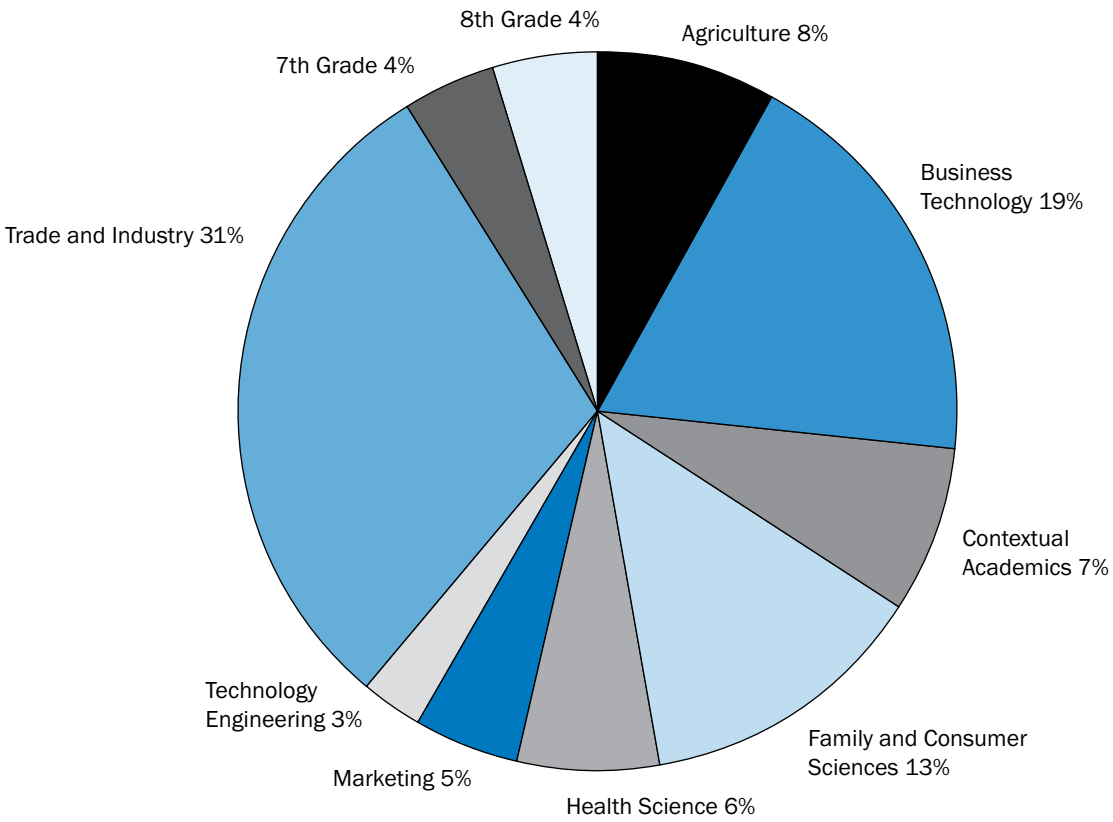
Programs of Study per Cluster Area and Total Number of Approved Programs of Study in Tennessee High Schools

Cluster	Number of Programs of Study per Cluster	Total Number of Approved Programs of Study in Tennessee High Schools
Agriculture	7	345
Architecture	14	347
Arts, A/C Technology and Communication	5	359
Business, Management, and Administration	6	153
Education and Training	3	60
Finance and Management	2	56
Government and Public Administration	2	34
Health Science	6	281
Hospitality and Tourism	2	141
Human Services	6	409
Information Technology	7	179
Law, Public Safety, Corrections, and Security	3	76
Manufacturing	7	114
Marketing, Sales and Services	6	128
Science, Technology, Engineering, and Mathematics	2	210
Transportation, Distribution, and Logistics	6	86
Total	**84**	**2,978**

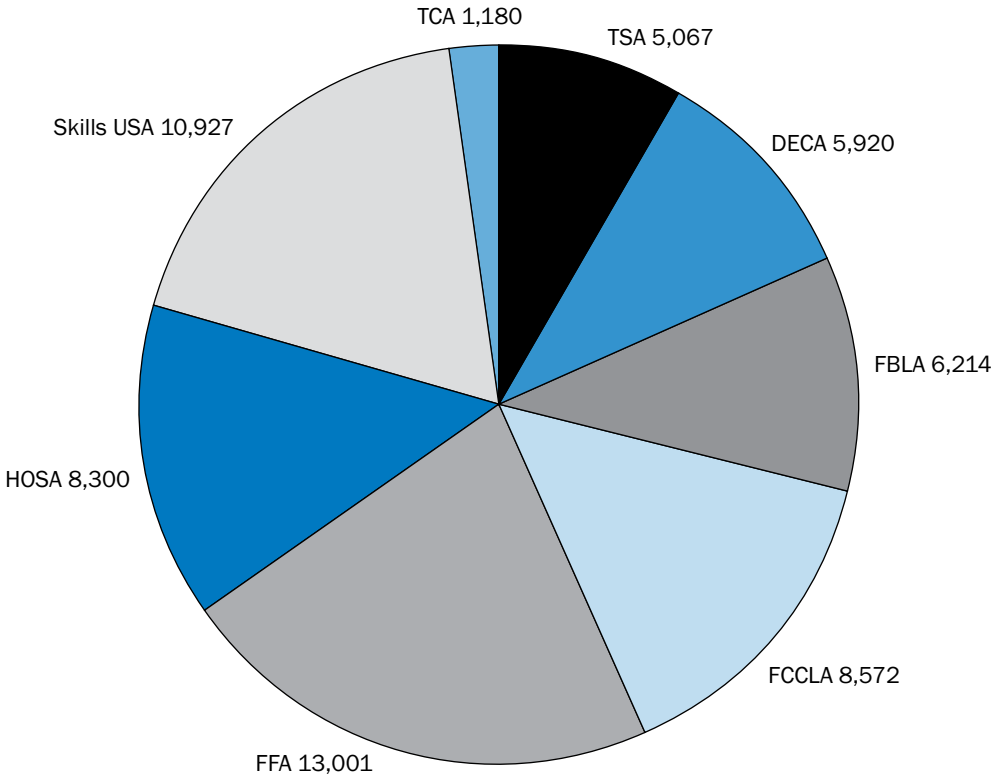
To review specific Tennessee Programs of Study (POS) and additional explanations, visit www.state.tn.us/education/cte/ad/clupos/index.shtml.

Career and Technical Education Teachers by Program Area and Percentage of Total per Program Area

Program Area	Enrollment	Percentage
Agriculture	372	8
Business Technology	829	19
Contextual Academics	331	7
Family and Consumer Sciences	583	13
Health Science	285	6
Marketing	209	5
Technology Engineering	128	3
Trade and Industry	1,348	31
Seventh Grade	185	4
Eighth Grade	202	4
Total	**4,472**	
Cooperative Methodology is included in the total number of students. Available in high school only.	158	



Secondary Career and Technical Student Organizations



Total Membership: 59,181

DECA: An organization for students enrolled in marketing education.

FBLA: An organization for students enrolled in business education.

FCCLA: An organization for students enrolled in family and consumer sciences.

FFA: An organization for students enrolled in agriculture education.

HOSA: An organization for students enrolled in health science education.

SkillsUSA: An organization for students enrolled in trade and industry education.

TCA: An organization for students enrolled in Jobs for Tennessee Graduates.

TSA: An organization for students enrolled in technology engineering education.

Perkins IV Quality Program Indicators

Each program of the Division of Career and Technical Education is held accountable to demonstrate and validate each of the following ten quality program indicators. Each program is monitored annually by desktop review and formally through a rotational, risk-based management monitoring process by the State Department of Education, Division of Career and Technical Education.

The division is looking for

- programs that offer a sequence of three or more earned credits;
- programs that are aligned with a state-approved program of study within career clusters;
- programs with a certified and appropriately endorsed teacher (a teacher who teaches a CTE course that substitutes for a core academic course must be highly qualified);
- programs teaching the state-approved curriculum standards;
- programs with a state-approved articulation agreement for a program of study or an approved articulation agreement approved by the lead administrators of secondary and postsecondary institutions, where available;
- programs supported by current labor market data regarding high-skill, high-wage and/or high-demand jobs;
- programs that teach all aspects of an industry;
- programs with an active advisory panel;
- programs with a career and technical student organization as an integral part of the instructional program; and
- programs promoting CTE and curriculum integration with academic teachers.

Career Guidance Initiatives

The Department of Education, Division of Career and Technical Education provides three (3) outstanding tools for career guidance and assessment for all students in Tennessee: the Tennessee Career Information Delivery System, the Tennessee College and Career Planning System, and the American Careers Planner. These counseling tools are available to students, parents, school counselors, and teachers free of charge. There is also no cost to local education agency personnel for training on any of the resources.

Tennessee Career Information Delivery System (TCIDS) provides career information and services to middle school, high school, and college students who are preparing for careers.

Student and Parent Resources

- Career planning
- Personality and skills assessment
- Resume resources
- Interview advice and assistance with resume development, mock interview sessions, and personality and skills assessments.

- Pathways is a roadmap to Tennessee career and technical courses of study to assist students, working with counselors and parents, to achieve their educational and career goals.
- The **TCIDS** Web site is used to **explore the 16 career clusters** and **download individual programs of study**. With over 900 different careers to choose from, it is often difficult for students to focus their varying interests. Dividing the job market into clusters allows them to view future career possibilities more clearly. Career clusters are occupations that are grouped together because persons employed in these professions have been shown to share similar interests and strengths.

Counselor and Teacher Resources

- Career planning
- Classroom resources
- College information
- Financial aid and scholarships
- General resources
- Interview advice
- Personality and skills assessment
- Resume resources

Learn more about TCIDS at: http://tcids.tbr.edu/index.html.

The **Tennessee College and Career Planning System**, powered by Kuder and sponsored by Ed-South, is used to assess student interests, skills, and work values. Every student in Tennessee may access this planning system free of charge. Once a student is provided a unique identification code, his or her information can be accessed and updated for the remainder of his/her life. This system has three major components:

The College Planning Link provides links to

- eCampus tours,
- high school counselor resources,
- Tennessee college and university information,
- Tennessee Technology Centers,
- the Tennessee Student Acceptance Corporation,
- the Regents Online Degree Program,
- the Regents Online Continuing Education Program, and the
- Regents Online Campus Collaborative.

The Career Planning Link provides links to

- TCIDS,
- TCIDS resources for students,
- TCIDS resources for counselors,
- TCIDS resources for parents, and
- Tennessee labor market information.

The Financial Aid Link provides links to

- a scholarship search tool,
- understanding financial aid
- Tennessee scholarship programs
- financial aid calculators, and
- mapping your future.

American Careers Planner

The Tennessee Department of Education, Division of Career and Technical Education, provides a copy of the *American Careers Planner* to every eighth-grader in the state, and Career Communications provides free training across the state. Secondary school counselors receive two classroom sets of the Tennessee Career Clusters Guide. These career guidance resources assist school counselors, teachers, students, and parents in helping students select a focus of study that provides a range of exit points into the workplace, postsecondary education and/or industry certification.

High Schools that Work

***High Schools That Work* is the nation's largest school improvement initiative for high school leaders and teachers.**

More than 1,200 *High Schools That Work (HSTW)* sites in 30 states and the District of Columbia use the framework of *HSTW* Goals and Key Practices to raise student achievement and graduation rates. www.state.tn.us/education/cte/hw/index.shtml

High Schools That Work Sites

County	School	County	School
Grundy	Grundy County HS	Grainger	Washburn HS
Henry	Henry County HS	Lauderdale	Ripley HS
Rutherford	Blackman HS	White	White County HS
Crockett	Crockett County HS	Lauderdale	Halls HS
Wilson	Lebanon HS	Fentress	York Institute
Anderson	Anderson County HS	Williamson	Page HS
Grainger	Grainger HS	Fayette	Fayette-Ware HS
Campbell	Campbell County HS	Haywood	Haywood HS
Oak Ridge	Oak Ridge HS	Clay	Clay County HS
McNairy	McNairy Central HS	Anderson	Clinton HS
McNairy	Adamsville HS	Jackson/Madison	Jackson Central-Merry HS
Wilson	Wilson Central HS	Rutherford	La Vergne HS

High Schools That Works Aspiring Sites

County	School	County	School
Dickson	Dickson County HS	Claiborne	Cumberland Gap HS
Dickson	Creekwood HS	Claiborne	Claiborne County HS
Wilson	Watertown HS	Maury	Spring Hill HS
Cannon	Cannon County HS	Knox	Carter HS
Fentress	Clarkrange HS	Bradley	Cleveland HS

Jobs for Tennessee Graduates (JTG)

Jobs for Tennessee Graduates (JTG) is a state program coordinated within the Division of Career and Technical Education and funded in partnership with the Tennessee Department of Education and the Tennessee Department of Labor and Workforce Development. The program is designed to assist at-risk and disadvantaged youth in graduating from high school and finding and keeping quality jobs. Through classroom instruction, community orientation, and career association activities, students have the chance to develop competencies in 37 essential employment skills. After leaving school, all students are provided follow-up services for a period of one year. www.state.tn.us/education/cte/jt/index.shtml

Northeast Region	
Carter County	Cloudland HS
East Region	
Scott County	Oneida HS
Knox County	Fulton HS
Anderson County	Anderson County Career and Technology Center
Southeast Region	
Marion County	Marion County HS
	South Pittsburg HS
	Whitwell HS
Grundy County	Grundy County HS
Nashville Region	
Davidson County	Antioch HS
	Glencliff HS
	Hunters Lane HS
	Maplewood HS (2 programs)
	McGavock HS (2 programs)
	Pearl-Cohn HS
	Stratford HS (2 programs)
	Whites Creek HS
Dickson County	Dickson County HS
North Central Region	
Williamson County	Centennial HS
	Fairview HS (2 programs)
	Franklin HS
	Independence HS
	Page HS
Cheatham County	Cheatham County Central HS
	Sycamore HS
Montgomery County	Kenwood HS

Southwest Region	
McNairy County	Adamsville HS
	McNairy Central HS
Carroll County	Carroll County Technology Center
Chester County	Chester County HS
Hardin County	Hardin County HS
Weakley County	Westview HS
Northwest Region	
Gibson County	Gibson County HS
	Milan HS
	Peabody HS
Lauderdale County	Ripley HS
South Central Region	
Maury County	Columbia HS
	Mt. Pleasant HS
Hickman County	Hickman County HS
Lawrence County	Lawrence County HS
	Loretto HS
	Summertown HS
Lewis County	Lewis County HS
Marshall County	Marshall County HS
Perry County	Perry County HS
Giles County	Richland HS
Wayne County	Wayne County Technology Center

TBR Tennessee Technology Centers

2008–2009 TTC Accomplishments/Highlights

Through the Tennessee Technology Centers' Workforce Development mission, Tennessee residents are able to obtain the technical skills and professional training necessary for advancement in today's competitive job market. Workforce Development also provides quality career opportunities for Tennessee's citizens, a skilled workforce for business and industry, and economic benefits for the state of Tennessee. The 27 Tennessee Technology Centers (TTCs) are organized into a comprehensive network spanning west, middle, and east Tennessee.

The Tennessee Technology Centers continue to serve as the premier providers for workforce development throughout Tennessee. The centers fulfill this mission by providing competency-based training through traditional and distance learning instructional delivery systems of the highest quality that help qualify individuals for employment and/or advancement in jobs; providing high-quality training and retraining of employed workers; and providing high-quality training that is economical and accessible to all residents of Tennessee, thereby contributing to the economic and community development of the communities the centers serve.

Locations:
Athens, Chattanooga, Covington, Crossville, Crump, Dickson, Elizabethton, Harriman, Hartsville, Hohenwald, Jacksboro, Jackson, Knoxville, Livingston, McKenzie, McMinnville, Memphis, Morristown, Murfreesboro, Nashville, Newbern, Oneida/Huntsville, Paris, Pulaski, Ripley, Shelbyville, Whiteville

All technology centers are accredited by the Council on Occupational Education.

2008–2009 Data
During the 2008–2009 academic year, the Tennessee Technology Centers served **32,276** students statewide and provided approximately **11 million hours** of training. TTCs awarded over **1,881** certificates, **4,351** diplomas, and **8,355** supplemental certificates (**14,587 total**).

- **95.45 percent of TTC graduates passed national license exams on the first attempt.**
- **Over 77 percent of TTC students completed their programs.**
- **78.7 percent of TTC graduates were placed in employment.**

Licensure and Certification

Examples of credentialing opportunities available to TTC students
Commission on Accreditation of Allied Health Education Programs, National Automotive Technical Education Foundation (NATEF), National Institution for Automotive Service Excellence (ASE), AEA- Aircraft Electronics Association, American Welding Association, Automotive Youth Education Systems, Professional Truck Driving Association, HVAC Excellence, International Electronics Technicians Association, National Institute for Metalworking Skills, American Design Drafting Association.

Examples of **national/state exams** available to students who complete their coursework in the following programs:

- Computer Information Technology—Microsoft Office User Specialist (MOUS), the A+ Hardware and Software exam, and the Network+ exam
- Health Information Technology—Certified Electronic Health Record Specialist (CEHRS)
- Practical Nursing—State LPN Exam
- Cosmetology—State Cosmetology License, Tennessee Board of Cosmetology
- Surgical Technology—National Surgical Technologists Certification Examination

The TTCs have provided special industry training for companies such as:
Volkswagen, Hemlock, Viskase, Rose Integrated, Delfield, Ingram Micro, Masterbrand Cabinets, Cumberland Medical Center, Graniti Fiandre USA, Quebecor Printing, US Zinc, Pasminco, Omega Cabinet Company, Advanced Foods, Ford Motor Company, Denso North America, FedEx, Bridgestone/Firestone, Toyota, Eaton, Hutchinson, Oster Corporation, General Mills/Pillsbury, Upper Cumberland Ambulance Service, Spring Industries, Nordyne Corporation, Firestone Industrial Programs, Proctor & Gamble, Nissan, and Intier Automotive.

Career Readiness Certificates

In 2009, the Tennessee Technology Center system began offering students statewide the opportunity to earn a Career Readiness Certificate (CRC) by making WorkKeys assessments available to all students through a grant received from the Tennessee Department of Labor. All TTC graduates and Career Center clients have the opportunity to take these assessments. The applied math, locating information, and reading for information assessments allow a student to receive a platinum, gold, silver, or bronze CRC depending on level of proficiency. The skills tested by the WorkKeys examinations have been identified by ACT as essential to employers for a qualified

workforce. The CRC Certificate is an easily understood and nationally valued credential that certifies the attainment of workplace skills. Since the beginning of the statewide initiative, 3,250 students have received CRC certificates.

Grants

Wilder-Naifeh Technical Skills Grant

As of fall 2007, any Tennessee citizen age 18 or older who wants to attend the Tennessee Technology Centers is eligible for up to $2,000 from the **Wilder-Naifeh Technical Skills Grant** funded by the Tennessee Education Lottery Scholarship (TELS) program. The Wilder-Naifeh grants do not require a high school diploma, a minimum grade point average, or an ACT or SAT college entrance test. However, students must meet program admission requirements as either full- or part-time students at a Tennessee Technology Center. Students can receive up to $2,000 per year to complete their chosen programs.

2009 Grant Snapshot

- 11,604 students received the Wilder-Naifeh Technical Skills Grant.
- The average scholarship was $1,147 74.
- 74 percent of grant recipients graduated with their scholarships intact.

TTC Regents Online Degree Program

The Tennessee Technology Centers are part of the Regents Online Degree Program (RODP). The centers implemented online programs in fall 2002. Each technology center offers these programs; however, the RODP program is a statewide collaborative. Three full diploma programs are offered in computer information systems, business systems technology, and drafting/CAD technology.

- The TTC RODP program experienced 100 percent program growth from spring 2008 to spring 2009.

  Programs/courses offered: Computer Information Services, Business Systems Technology, Dietary Management, LPN Refresher Course, Dementia Care, IV Therapy, Allied Health, Hybrid Weatherization, Hybrid Automotive

Outstanding Student of the Year Program

In 2008–2009, the Tennessee Technology Centers implemented the Outstanding Student of the Year program. The Outstanding Student of the Year serves as an ambassador for technical education in Tennessee.

- Each TTC completed an extensive nomination, application, and interview process to name an Outstanding Student of the Year.
- Twenty-seven students represented all TTCs and competed at three regional competitions; nine were chosen to move forward to the state competition.
- The state competition took place during the ATEA conference, where the winner was announced and received the keys to her new car. All students who made it to the state competition received a laptop computer.

Dual Enrollment Grant

In 2005, Public Chapter Number 481, Senate Bill Number 1315, SECTION 4, amended Tennessee Code Annotated, Section 49-4-902, by adding the dual enrollment grant, which is a grant for study at an eligible postsecondary institution that is funded from net proceeds of the state lottery and awarded to students who are attending high school and are also enrolled in courses at eligible postsecondary institutions for which they will receive credit.

Over two thousand (2,056) high school students received an average of 219.55 contact hours at technology centers statewide during the 2008–2009 school year. The over 451,000 clock hours these students earned during 2008–2009 represents approximately **$1 million** in savings in tuition costs. This early contact hour credit is also equivalent to a student earning up to one-third of a TTC diploma while still in high school. Numerous dual enrollment activities and other innovative secondary partnerships with TTCs are taking place from Memphis to Elizabethton.

In addition, the Tennessee Technology Centers expanded their online dual enrollment pilot to include approximately 250 secondary students across Tennessee in both rural and urban communities. These students participated in programs such as Business Systems Technology, Drafting and CAD Technology, Computer Information Systems, and Allied Health.

Tennessee Technology Centers
Dual Enrollment/Dual Credit

	Dual Enrolled		Dual Credit		Total	
Location	**HC**	**Clock Hours**	**HC**	**Clock Hours**	**HC**	**Clock Hours**
Athens	1	114			1	114
Covington	35	10,305			35	10,305
Crossville	124	35,025			124	35,025
Dickson	23	7,483			23	7,483
Harriman	36	4,020			36	4,020
Hartsville	425	75,169			425	75,169
Hohenwald	77	16,093			77	16,093
Jacksboro	15	2,098			15	2,098
Jackson	51	19,326			51	19,326
Knoxville	2	831			2	831
Livingston	381	68,627			381	68,627
McKenzie	16	4,635			16	4,635
McMinnville	18	2,232			18	2,232
Memphis	25	4,145			25	4,145
Morristown	27	3,266			27	3,266
Murfreesboro	34	5,895			34	5,895
Nashville			649	101,049	649	101,049
Newbern	121	31,816			121	31,816
Oneida	236	57,248			236	57,248
Pulaski	287	79,979			287	79,979
Ripley	34	8,345			34	8,345
Crump	39	7,421			39	7,421
Shelbyville	18	3,720			18	3,720
Whiteville	31	3,604			31	3,604
Total	**2,056**	**451,397**	**649**	**101,049**	**2,705**	**552,446**

Student and Professional Organizations

SkillsUSA (Postsecondary)

SkillsUSA is a national nonprofit organization serving teachers and high school and postsecondary students who are preparing for careers in trade, technical, and skilled service occupations including health occupations.

- Tennessee has the largest postsecondary SkillsUSA membership in the United States with 11,022 postsecondary student members and 608 professional members.
- In competition, 62 contestants entered 44 contests, receiving 6 gold medals, 9 silver medals, and 8 bronze medals.
- One national officer was elected from Tennessee (national secretary).
- Tennessee SkillsUSA received three Lowe's National SkillUSA $10,000 grants for community service projects (Crump, Ripley, and Chattanooga).
- Scholarships were offered to national winners and officers.
- Scholarships were offered to secondary regional and state winners totaling $527,800.

National Technical Honors Society (NTHS)

NTHS is the acknowledged leader in the recognition of outstanding student achievement in career and technical education. NTHS encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps top students find success in today's highly competitive workplace.

2008–2009

450 members in 21 NTHS chapters statewide.

American Technical Education Association (ATEA)

The Tennessee Technology Centers (TTCs) were pleased to host the 46th Annual American Technical Education Association's national conference, Technical Education . . . the Natural Choice. The conference focused on integrating new clean-energy technologies into training programs in order to prepare the workforce to design, build, and implement these technologies. Eight hundred attendees were able to

- choose from 100 professional development workshops and three general sessions,
- visit 50 vendors,
- participate in business and industry tours,
- find out who won the ATEA Outstanding Student of the Year, and
- find out who won the ATEA Outstanding Program of the Year

Partnerships

Department of Corrections

The department provides instruction for the Tennessee Correction Academy at TTCs throughout the state in areas such as IV therapy, computer information technology, and basic trauma life support.

TTC training was provided to inmates in the west Tennessee area in fall 2009 in a pilot program designed to be a model for the state.

Department of Labor

The TTC Central Office continues to coordinate the operation of the food stamps contract between TBR and the Tennessee Department of Labor and Workforce Development. Over 500 students have been served statewide through June 2009.

Over $5 million in statewide and local initiatives have been started through stimulus funding, including

- over 60 new TTC programs;
- the offering of WorkKeys testing for Career Readiness Certificates to all Technology Center students and Career Center clients;
- Career Readiness 101 training for all Technology Center students and Career Center clients (Keytrain remedial and development software, career exploration, job interviewing skills, resume writing, etc.);
- summer youth programs; and
- career cluster guides focused on green technology.

Department of Safety

TTCs partnered with the Department of Safety to assume commercial driver license third-party testing responsibilities in the Chattanooga, Crump, Knoxville, Memphis, Nashville, Oneida, Ripley, and Shelbyville service delivery areas.

TBR Community Colleges

The thirteen community colleges in Tennessee have diverse strengths. Tennessee Board of Regents community colleges have remained flexible and responsive to stakeholders in order to meet changing demographic, technological, and workforce development needs; respond to the growing importance of nontraditional pathways through college; demonstrate a commitment to access in order to increase the educational attainment level of the citizens; and vigorously continue the constant search for new markets and students. Thus, TBR community colleges serve multiple missions, each directed at addressing the specific needs of varying constituencies. Programs at TBR community colleges are broad in scope and include basic adult education, remedial and developmental education, career education, transfer to baccalaureate programs, customized training for business, preparation for industry certification, small business development activities, and other types of education initiatives.

The TBR community colleges are Chattanooga State Community College, Chattanooga; Cleveland State Community College, Cleveland; Columbia State Community College, Columbia; Dyersburg State Community College, Dyersburg; Jackson State Community College, Jackson; Motlow State Community College, Tullahoma, Nashville State Community College, Nashville; Northeast State Community College, Blountville; Pellissippi State Community College, Knoxville; Roane State Community College, Harriman; Southwest Tennessee Community College, Memphis; Volunteer State Community College, Gallatin; and Walters State Community College, Morristown.

Accreditation

All TBR community colleges are accredited by the Southern Association of Colleges and Schools, Commission on Colleges.

The Tennessee Board of Regents Community College System has a mission focused on (a) formal education including college transfer, career education, developmental education, and general education; (b) student services including counseling, placement assessment, and financial aid; (c) continuing education including noncredit courses such as literacy, job enrichment, and topics related to business/industry development; (d) community services such as seminars, lectures, concerts, plays, and consultative activities that enhance community life; (e) attention to the students to be served including traditional college age students, high school students, adults of all ages, women and minorities, the educationally disadvantaged, and disabled students; and (f) economic development, which overlies career education but also includes consultative services to employers.

Testing, Certificates, and Associate Degrees

The primary programs for workforce development at the community colleges result in the attainment of the Associate of Applied Science (A.A.S.) degree.* Each community college has a unique primary mission and programmatic emphasis, depending upon the needs of the region of the state it serves. Some of the programs of study in career and technical education include the following:

- Nuclear radiation protection technician
- Biofuels process technician
- Chemical process control technician
- Computer networking technician
- Construction manager
- Mechatronics technician
- Optician
- Occupational therapy assistant
- Paralegal
- Polysomnographic technologist
- Radiologic technician
- Respiratory care technician
- Solar construction worker

Pre-professional programs of study are normally reflected in the Associate of Science (A.S.) degree.* These programs of study are intended to transfer to the four-year institution and include such areas of study as

- Pre-engineering,
- Pre-medicine,
- Pre-veterinary,
- Pre-pharmacy,
- Chemistry, and
- Biology.

National/state examinations for which students may sit after appropriate coursework at the community colleges are CISCO and Microsoft Networking, A+ Hardware and Software, Microsoft Office User Specialist (MOUS), Registered Nurse, EMT (first responder and paramedic), NATEF/ASE automotive technician, veterinary technician.*

*Not all programs are available at all colleges.

Special Industry Training

Tennessee Community Colleges have provided special industry training for these companies:

Aerisyn, Aerojet, AGC Glass, Alcoa, Alstom, American Appliance, B&W Y–12, Bert-Co., Black & Decker, Bowater, Brown Stove, Butler Manufacturing, Carlisle Tire and Wheel Co, Columbia Power, Cormetech, Corrugating Roll, Covenant Health Systems, D & S Remodelers dba Servpro, Delta Faucet, Energy Solutions, EraChem, Milog, Federal Bureau of Prisons, Flowers Bakery, Frito-Lay, General Motors Spring Hill, Georgia Pacific, Goodyear, John Deere Power Products, Johnson Matthey, King Pharmaceuticals, Kirby Building Systems, Kohler, MacDermid Printing Solutions, MAHLE Filter Systems North America, Metokote Corporation, Mid-South Meter Association, Military Systems Group, Nissan, Nuclear Fuel Services, Old Castle Engineering Products, ORNL (X-10), Owens Corning, Pinnacle Foods, Raytheon, Republic Plastics, Seymour Tubing, Signal Wind Energy, South East Container, Tennessee Corrections Academy, Tennessee Valley Authority, Tyson, U.S. Corps of Engineers, U.S. Department of State, United Steelworkers, Vanderbilt EMS Group, Volkswagen, Volvo Penta, Wrigley, Yamaha, Zeledyne

Regents Online at the Community Colleges

The Tennessee Board of Regents Community Colleges are part of a collaborative, strategic planning effort to offer the Regents Online Degree Programs (RODP). The Regents Online Campus Collaborative was recognized as a Platinum Award winner at the IMS Global Learning Consortium in 2008.

Some of the career and technical education programs offered online through the community colleges are the following:

- Associate of Applied Science in Professional Studies Concentration: Information Technology
- Associate of Applied Science in Early Childhood Education
- Associate of Applied Science in Health Information Technology
- Associate of Applied Science in Web Technology
- Associate of Applied Science in Nursing
- Associate Degrees for Faculty at the Tennessee Technology Center

Tennessee Board of Regents
Community College Dual Enrollment

Institution	Students	Credit Hours	Average Credit Hours per Student
CSTCC	911	4,879	5.4
CLSCC	434	1,747	4.0
COSCC	585	2,240	3.8
DSCC	468	2,054	4.4
JSCC	578	2,029	3.5
MSCC	599	2,247	3.8
NSCC	549	2,219	4.0
NSTCC	366	1,299	3.5
PSTCC	756	2,722	3.6
RSCC	681	3,138	4.6
STCC	161	596	3.7
VSCC	955	4,823	5.1
WSCC	747	3,784	5.1
Community College Total	**7,790**	**33,773**	**4.3**

MIDDLE TENNESSEE STATE UNIVERSITY

TCCTE

Tennessee Council for Career
and Technical Education