

2015-16

CATE Student Reporting Procedures Guide

Office of Career and Technology Education
South Carolina Department of Education



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State Superintendent of Education

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Changes Effective 2015-16 School Year

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Preface

This student reporting procedures guide is the Office of Career and Technology Education's (OCTE) official guide for PowerSchool data entry and reporting. Data from schools are collected annually to meet state and federal requirements: the career center report card performance measures and high school report card career and technology education (CATE) student performance indicators under the South Carolina Education Accountability Act of 1998 and the eight core indicators of performance under the Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV).

It is critical that data reported to the South Carolina Department of Education (SCDE) be complete and accurate. State and school district funding are affected by the data submitted. School districts, high schools, and career centers must collaborate and communicate to review data at the local level before submitting data to the SCDE. Your efforts in ensuring that your school's and district's data are of the highest quality possible are appreciated.

CATE DATA REPORTING DEADLINES

Student Placement Follow-up Report
April 15, 2016

End-of-the-Year Report
Fourth Quarterly Data Collection (QDC4)

NOTICE

The activity/course codes specified in this document are also listed in two other South Carolina Department of Education documents related to course sequencing and educator credentials: *South Carolina Department of Education Activity Coding System for the Student Information System* and *Required Credentials for Professional Staff Members in the Instructional Programs of South Carolina's Public Schools*. Therefore, when course titles change, titles/codes are deactivated, or new titles/codes are created, those changes will be made not only in this document but in these two other SCDE documents as well.

This document is also available online at: <http://ed.sc.gov/agency/programs-services/152/>.

Career and Technology Education Student Data

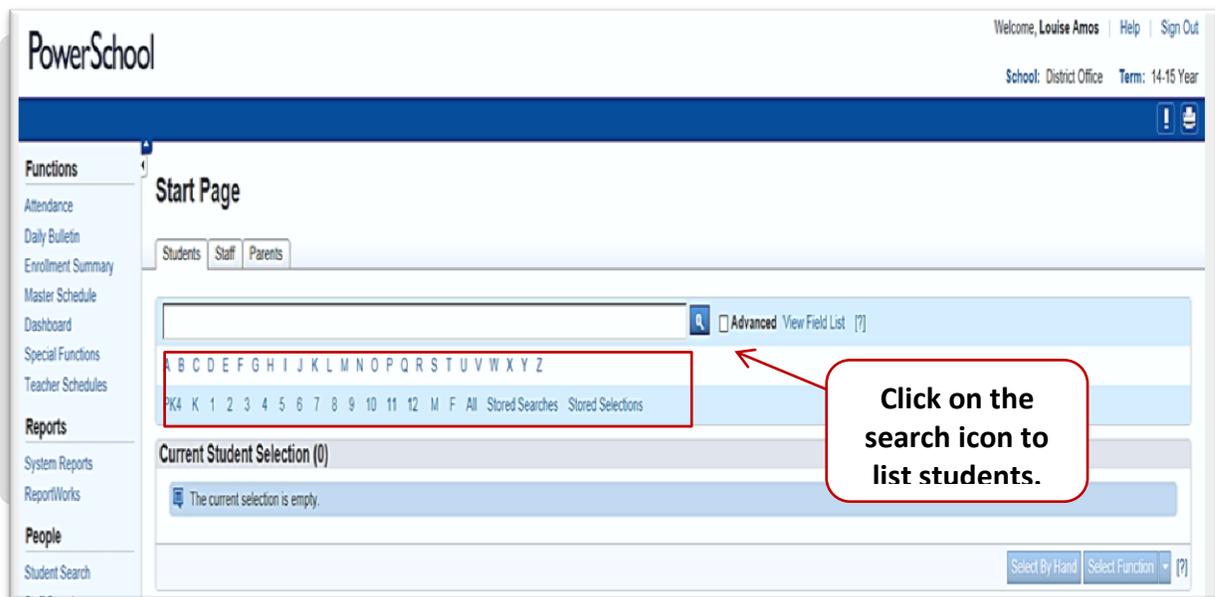
Audience

The intended audience for Career and Technology Education training includes career center, school, and district staff responsible for entering, correcting, and assuring accuracy of the Career and Technology Education data.

Accessing the PowerSchool CATE Page

In this manual you will learn how to navigate to the State/Province - SC page in PowerSchool, select CATE, and enter the appropriate data.

1. Begin this task by logging into PowerSchool. Once on the PowerSchool home page, select one or more students.



2. Click on **State/Province - SC** in the student menu to retrieve links to the SC PowerSchool pages; then click on the CATE link.

The screenshot shows the PowerSchool interface for 'South Carolina State Information'. The left sidebar contains a navigation menu with categories like Information, Access Accounts, Addresses, Custom Screens, Demographics, Emergency/Medical, Family, Health, Modify Info, Other Information, Student Email, Parents, Photo, State/Province - SC, and Transportation. The main content area lists various information categories, including CATE, Early Childhood, 5K Readiness Scores, Student Supplemental, Precode, Transportation, Work-based Learning, Additional Student Information, Parent Information, Emergency Contacts, Homeless Student Information, Immunizations, Graduation Rate Planning Worksheet, and Civil Rights Data Collection (CRDC). A red box highlights the 'CATE' link, and a red arrow points to it from a text box that says 'Click on State/Province -SC to retrieve the CATE'.

3. The Office of Career and Technology Education requires that you populate the following fields on the CATE custom page:

PowerSchool

Start Page > Student Selection > South Carolina State Information > SC Career and Tech ED

SC Career & Technology Education Data Entry

CATE Early Childhood SK Readiness Scores Student Supplemental Precode Transport Work-Based Learning

Single Parent Displaced Homemaker

Exceptions Diploma Earned

CATE Concentrator

CIP Code

Custom/Cross-Cluster CIP Code (Approval Required)

Computer Completion Year

Remote School Number

Certification 1

Certification 2

Certification 3

Certification 4

Certification 5

Certification 6

Certification 7

Certification 8

Certification 9

Certification 10

CATE Placement Code

Placement Employer

Placement Phone

Placement Job Title

Placement Supervisor Name

Placement Start Date

Placement Higher Ed Name

Placement Higher Ed Program

Placement Military Branch

Placement Military Training

Field Descriptions

Single Parent

The term “single parent” refers to a student: either a pregnant female student who is unmarried or a male or female student who is unmarried or legally separated from a spouse and has a minor child or children of whom he or she has either full custody or joint custody.

- ▶ **Data Entry** (dropdown box)
 - Blank = [default]
 - Y = Yes
 - N = No

Displaced Homemaker

The term “displaced homemaker” refers to an individual who has worked primarily without remuneration to care for a home and family and for that reason has diminished marketable skills, who has been dependent on the income of another family member but is no longer supported by that income, or who is a parent whose youngest dependent child will become ineligible to receive assistance under Part A of Title IV of the Social Security Act within two years after the date on which the parent applies for assistance under this title and who is unemployed or underemployed and is experiencing difficulty in obtaining or upgrading employment.

▶ **Data Entry** (dropdown box)

Blank = [default]

Y = Yes

N = No

Exceptions

Data are to be entered on an annual basis for all students for Perkins accountability indicators and report card measures.

Enter **I** if the student has an IEP (individualized education program) indicating:

1. The student will **not** complete the requirements needed to obtain a South Carolina High School Diploma.

and/or

2. All of the core standards for a specified CATE course/program will **not** be taught (i.e., mastery of only a portion of the core standards in a program is appropriate for the student).

Use the exception code **I** *exclusively* for students whose IEPs indicate one or both of the above conditions. Many students with IEPs **do** receive the instruction necessary to complete the core CATE course standards and the requirements for a South Carolina High School Diploma, and these students **should not be coded as I**.

Enter **W** if the student withdrew from the CATE program or from the school during the school year.

▶ **Data Entry** (dropdown box)

Blank = [default]

I = IEP

W = Withdrawn

Diploma Earned (View Only)

Data should be entered in this field for **all** twelfth-grade students to indicate whether each student met the criteria for receiving a South Carolina high school diploma or district non-diploma award. Data entry into this field can only be made on the Student Supplemental page in PowerSchool (State/Province – SC page). Once the field has been populated on the Student Supplemental page, the code selected is automatically populated for the field on the CATE page in “View Only” mode.

The data for each student will be used to assess the school’s and district’s performance for the Perkins accountability indicators and the career center report card measure for high school graduation.

▶ **Data Entry** (dropdown box)

- Blank = [default]
- F – State of SC Diploma
- H – State of SC Certificate*
- N – District Non-diploma Award
- X – Did not meet requirements to graduate

* The H code will remain visible (grayed out) in the dropdown for historical reference for students who received state certificates prior to 2014-15.

The screenshot shows the PowerSchool interface for 'Student Supplemental Data Entry'. The 'Student Supplemental' tab is active. The 'Diploma Earned' field is circled in red, and its dropdown menu is open, displaying the following options: F - State of SC Diploma, H - State of SC Certificate, N - District non-diploma document, and X - Did not meet requirements to graduate. Other fields in the form include Diploma Ordered, Diploma Order Num, Award Earned, Award Ordered, Scholarship Ordered, Date GED Earned (with Month and Year dropdowns), Retained Reason, Times Retained, Foster Home, 504 Plan, Comp Health, PE Compliance, Ninth Grade Code (set to 13 - 2012-2013), and G&T Qualified (set to A - GTA - G & T Academic).

Note: For any twelfth-grade student whose Diploma Earned field is left blank and who meets all graduation requirements during the summer and receives a South Carolina high school diploma prior to the next school year, the school administrator may change the entry code to the appropriate code of F – State of SC Diploma and send a notification letter to the Office of Career and Technology Education by September 1. The notification should include the student’s name, State ID, and a request to update the Diploma Earned field.

CATE Concentrator

A **CATE Concentrator** is a secondary student with an assigned CIP code who has earned 3 Carnegie units of credit in a state-recognized CATE program. A state-recognized CATE program must be composed of an approved sequence of career and technology education courses leading to a career goal and must include a minimum of 4 Carnegie units of credit.

- ▶ **Data Entry** (dropdown box)
 - Blank = [default]
 - Y = Yes
 - N = No

CIP Code

The Classification of Instructional Programs (CIP) codes designate the specific CATE programs and are used for federal reporting and for assessing the federal Perkins accountability indicators. Every student identified as a CATE Concentrator must be assigned a CIP code approved by the OCTE.

- ▶ **Data Entry** (dropdown box) : six-digit CIP code

Guidelines for assigning CIP Codes for CATE Concentrators

- ❖ **Only** assign a CIP code to designate the **state-recognized CATE program** in which a CATE Concentrator (defined above) earned *at least* 3 units. The local CATE program represented by the CIP code on the CATE page must offer a **sequence of approved courses** that provides the opportunity for students to complete a minimum of 4 units. (See **CATE Clusters, Programs, and Courses** in Appendix C, pages 53-86, and see below and pages 51-52 for the process for approval of **Custom/Cross-Cluster CIP Codes**.)
- ❖ If a student is a CATE Concentrator in **two state-recognized CATE programs**, enter the CIP code/CATE program on the basis of the student's post-graduation plans.
- ❖ **Do not use the CIP Code field for any purpose other than to designate a state-recognized CATE program that offers students the approved sequence of CATE courses required to complete a minimum of 4 units.**

Custom/Cross-Cluster CIP Code

The intent for requesting Custom/Cross-Cluster Program Approval is for a program which is designed to specifically match a student's career goals if those goals do not fall within any of the current CATE approved programs. Such customizing may even involve allowing a student to select related courses from different CATE cluster areas.

Custom CIP Code: six-digit CIP code used to designate a student who has been identified as a concentrator in CATE courses within the same cluster

Cross-Cluster CIP Code: six-digit CIP code used to designate a student who has been identified as a concentrator in CATE courses across two or more cluster areas

- ▶ **Data Entry** (dropdown box) : six-digit CIP code received through SCDE approval

Several criteria to remember when making a request for a CATE Custom/Cross-Cluster CIP code:

- ❖ Local businesses, advisory committees, and school district/career center personnel should be consulted when a customized program for a student is being determined.
- ❖ Each course in a customized program must include contextual learning.
- ❖ Student has earned or will earn the third unit of the designed program before submitting request.

Completer

A **Completer** is a CATE concentrator who has earned **all** of the required units in a state-recognized CATE program identified by the assigned CIP code.

▶ **Data Entry** (dropdown box)

Blank = [default]

Y = Yes

N = No

Note: A CATE concentrator pursuing a 4-unit CATE program would be designated a **Completer** when the 4th unit is earned.

A CATE concentrator pursuing a CATE program offering 6 units would be designated a **Completer** when the 6th unit is earned.

Completion Year

The **Completion Year** field will indicate the semester and the year in which the student completed the required units in a state-recognized CATE program. For school year 2015-16 the entry would be **FA15** if student completed in the fall of 2015 or **SP16** if the student completed in the spring of 2016.

▶ **Data Entry** (dropdown box): appropriate semester and year

Remote School Number

The **Remote School Number** field specifies the location where the CATE program is offered. An entry should be made in this field **only** if the program is offered at a location other than the student's high school. This entry will identify the other high school or the career center that offers the particular program.

▶ **Data Entry** (dropdown box): seven-digit school identification number (SIDN, sometimes referred to as the BEDS code)

Note: Leave this field blank if the program is offered at the student's home high school.

Example: Bethany Adams is a student at ABC High School (school SIDN – 0102003) and attends DEF Career and Technology Center (school SIDN – 0102995) where she is concentrating in the Culinary Arts program.

On the CATE Page the student would be designated as a **CATE Concentrator** and assigned the **CIP Code** 520905, the **Remote School Number** field would be an entry of 0102995.

Certification 1 – Certification 10

The **Certification** fields should be used to identify national and state certifications and credentials received by CATE students. Up to 10 certifications can be entered for each student. Please note that Perkins funds may be used to pay for only the following certifications, excluding the American Red Cross-Babysitting and First Aid/CPR/AED exams.

- ▶ **Data Entry** (dropdown box): appropriate certification(s) for CATE students

Note: *Web addresses are provided both for your information and for the documentation of much of the text that follows here. These URLs were operational as of the writing of this document. The South Carolina Department of Education is not responsible for changes made to Web addresses or content after this manual is published.*

01 – CompTIA A+

CompTIA A+ is an international industry credential that validates the knowledge of computer service technicians. Earning CompTIA A+ certification proves that a candidate has a broad base knowledge and competency in core hardware and operating system technologies including installation, configuration, diagnosing, preventive maintenance, and basic networking.

02 – Academy of Info. Technology

The Academy of Information Technology (AOIT) curriculum introduces students to the broad career opportunities in today's digital workforce and equips them with the personal, analytical, technical, and communications skills they need.

<http://www.naf.org>

03 – ARI – Industry Competency Exams (ICE)

The Air-Conditioning and Refrigeration Institute (ARI) certification programs are industry developed, driven, and managed for entry-level technicians who install, service, and maintain HVACR equipment.

<http://www.ahrinet.org>

[04—discontinued]

05 – ASE – Auto Collision Repair

The National Institute for Automotive Service Excellence (ASE) is responsible for the Automotive Technician Training Certification Program. The purpose of this certified program is to improve the quality of training offered for students at the high school level. There are four areas in which these students can obtain ASE certification in auto collision repair: Structural Analysis and Damage Repair, Mechanical and Electrical Components, Painting and Refinishing, and Non-Structural Analysis and Damage Repair.

www.natef.org

06 – ASE – Auto Technology

The National Institute for Automotive Service Excellence (ASE) is responsible for the Automotive Technician Training Certification Program. The purpose of this certified program is to improve the quality of training offered for students at the high school level. There are nine areas in which these students can obtain ASE certification in auto technology: Brakes, Suspension & Steering, Electrical/Electronic Systems, Engine Performance, Engine Repair Automatic Transmission/Transaxles, Manual Drivetrains, Heating & Air Conditioning and Maintenance & Light Repair.

www.natef.org

07 – AWS

The American Welding Society (AWS) certifies the skills of engineers, inspectors, technicians, and welders. The AWS offers various certification programs to meet a variety of needs, providing students with specialized preparation to expand their knowledge base and to work with diverse codes, standards, and specifications industry wide.

<http://www.aws.org>

08 – Academy of Finance

The National Academy Foundation's Academy of Finance (AOF) introduces students to the broad range of career opportunities in the financial services industry and gives them new choices for their future.

<http://www.naf.org>

09 – Academy of Hospitality and Tourism

The Academy of Hospitality and Tourism (AOHT) provides public high school students with the requisite knowledge and skills for a successful career in one of the world's largest service industries through a curriculum that provides an in-depth look at all aspects of from hotel management to sports, entertainment, and event management, and includes the study of geography, economics, and world cultures.

<http://naf.org/our-themes>

10 – Electronics Technician

The Electronics Technicians Association (ETA) International is a not-for-profit worldwide professional association for electronics technicians. The ETA offers two levels of basic ETA certification: (1) certification as a SET (Student Electronics Technician) for high school students and (2) certification as a CETa (Certified Electronics Technician, associate) for individuals who have less than two years' experience or trade school training as electronics technicians. All technicians must pass the associate-level requirements before they can qualify to sit for the full (Journeyman) CET certification.

<http://www.eta-i.org>

[11—discontinued]**12 – Certified Nurse Aide**

The South Carolina Department of Health and Human Services (SCDHHS) has contracted with Pearson VUE to develop, score, and report the results of the NNAAP™ (National Nurse Aide Assessment Program) Examination for the South Carolina Nurse Aide Registry. The exam is a measure of nurse aide-related knowledge, skills, and abilities. It is made up of both a written examination and a skills evaluation. All new nurse aide candidates applying to take the NNAAP™ Examination in South Carolina must have successfully completed a state-approved nurse aide training program.

<http://www.asisvcs.com/indhome.asp?CPCAT=0741NURSE>

<http://www.pearsonvue.com/>

[13—discontinued]**14 – Cisco Certified Network Associate**

Certification as a Cisco Certified Network Associate (CCNA) indicates that an individual has a foundation in and apprentice knowledge of networking. CCNA certified professionals can install, configure, and operate LAN, WAN, and dial access services for small networks (100 nodes or fewer), including but not limited to use of these protocols: IP, IGRP, Serial, Frame Relay, IP RIP, VLANs, RIP, Ethernet, and Access Lists.

<http://www.cisco.com>

15 – Emergency Medical Technician

In South Carolina, there are three levels of Emergency Medical Technician (EMT) Certification: Basic, Intermediate, and Paramedic. To be *initially* certified as an EMT at any level *for the first time in this state*, the candidate must successfully complete the appropriate South Carolina-approved EMT training program and pass the appropriate level National Registry examination. This certification is available for high school seniors who have completed a South Carolina DHEC (Department of Health and Environmental Control) approved EMT program.

<http://www.scdhec.gov/health/ems/certification.htm>

<http://www.nremt.org>

[16—discontinued]**17 – EPA Section 608**

Environmental Protection Agency (EPA) Section 608 technician certification is required in order for an individual to service building air conditioning and refrigeration systems and to purchase refrigerants. There are four types of EPA-Approved Section 608 certification, each involving a knowledge of EPA regulations relating to refrigerant recovery.

<http://www.acca.org>

18 – First Responder

The American Red Cross offers the course *First Aid—Responding to Emergencies with Adult, Child, and Infant CPR/AED* to provide the citizen responder with the knowledge and skills necessary to help sustain life and minimize the consequences of injury or sudden illness until advanced medical help arrives. This program is designed primarily for use in high schools, colleges, universities, and other settings that require a curriculum of greater length than the American Red Cross FA/CPR/AED Program. In order to receive certification, students must participate in all skill sessions and scenarios, demonstrate competency in all required skills, and correctly answer at least 80 percent of the questions in the appropriate sections on the written exam.

<http://www.redcross.org>

Training is also offered and administered by the DHEC Office of Emergency Medical Services (EMS) under a grant from the South Carolina Department of Public Safety and the National Highway Traffic Safety Administration. Actual course instruction is provided by South Carolina's four EMS Regional Offices. The comprehensive training program includes the revised Department of Transportation's 40-hour First Responder course, along with an additional 4-hour South Carolina EMS-imposed oxygen administration training course. This curriculum provides the student with vital training that will permit the rendering of lifesaving techniques at roadside until EMS arrives.

<http://www.nhtsa.gov/people/injury/ems/pub/frnsc.pdf>

19 – IC 3 (Internet and Computer Core Certification)

The Internet and Computing Core Certification (IC³) program ensures that students have the knowledge and skills required for basic use of computer hardware, software, networks, and the Internet. IC³ is a gateway to advancement in education, employment, or other certification programs.

<http://www.certiport.com>

<http://www.certiport.com/PORTAL/desktopdefault.aspx?tabid=669&roleid=101>

[20—discontinued]**[21—discontinued]**

[22—discontinued]

[23—discontinued]

24 – National Health Science Assessment

The National Health Science Assessment/Certificate Program is an entry-level certification that verifies student mastery of the knowledge and skills that provide the foundation for all health careers (National Healthcare Foundation Standards). It is recommended that in addition to the online assessment, the student will complete a portfolio. This skill assessment was developed by the National Consortium for Health Science Education, the health science career cluster advisory group. Students seeking this certification should have mastered the National Healthcare Foundation Standards delivered through South Carolina secondary schools' health science education curriculum.

www.precisionexams.com/nchse

25 – NCCER – A/C Ref. Technology

26 – NCCER – Carpentry

27 – NCCER – Electricity

28 – NCCER – Mechatronics

29 – NCCER – Masonry

30 – NCCER – Plumbing

31 – NCCER – Welding Technology

[56 – NCCER – Core]

[58 – NCCER – NCCT National Construction Career Test]

The National Center for Construction Education and Research (NCCER) is a not-for-profit education foundation that was created in 1995 to address the severe workforce shortage facing the industry and to develop a standardized training process and curricula. Among its services, the NCCER develops curricula and conducts programs of education and training for secondary, post-secondary and adult education. In addition, it provides assessments to evaluate the journey-level knowledge and skills of experienced craftspeople as part of the National Craft Assessment and Certification Program (NCACP). NCCER also provides academic assessments and credentialing for high school career and technical education students as part of the standardized industry approved curricula and National Construction Career Tests (NCCT).

<http://www.nccer.org>

32 – CompTIA Network+

CompTIA Network+ certification is an international industry credential that validates the knowledge of networking professionals.

<http://www.comptia.org>

33 – NIMS

A National Institute for Metalworking Skills (NIMS) credential is recognition that an individual's competencies have been validated against a set of industry-written skill standards. The credential is awarded on the basis of performance tests and related theory exams. Because the performance requirements and exams are the same nationwide, the credential is portable.

<https://www.nims-skills.org/web/nims/home>

34 – Outdoor Power Equipment

The Outdoor Power Equipment Technician Certification Program, conducted by the Equipment and Engine Training Council (EETC), offers technicians industry-sanctioned certification on the basis of tests given year-round across the United States. Tests are offered in 2-cycle engines, 4-cycle engines, drivelines/hydraulics/hydrostatics, electrical systems, compact diesel engines, and generators.

<http://www.eetc.org>

35 – Pharmacy Technician

Two organizations, the Pharmacy Technician Certification Board (PTCB) and the Institute for the Certification of Pharmacy Technicians (ExCPT exam), administer national certification examinations. Certification is voluntary in most states, but is required by some states and employers. Some technicians are hired without formal training under the condition that they obtain certification within a specified period of time. To be eligible for either exam, candidates must have a high school diploma or GED, no felony convictions of any kind within 5 years of applying, and no drug or pharmacy related felony convictions at any point. Employers, often pharmacists, know that individuals who pass the exam have a standardized body of knowledge and skills.

<http://www.ptcb.org>

[36—discontinued]

37 – ProStart

The ProStart program, offered in participating high schools through the South Carolina Restaurant and Lodging Association, is supported as an industry-driven curriculum designed by the Educational Foundation of the National Restaurant Association to teach, test, and award industry-recognized certificates to students meeting high standards in hospitality education. The National ProStart[®] Certificate of Achievement is awarded to students who have successfully completed the ProStart[®] program (by meeting all the requirements).

<http://scprostart.com/>

[38—discontinued]

39 – South Carolina Cosmetology License

The South Carolina Board of Cosmetology is responsible for licensing and regulating the profession of cosmetology in the State of South Carolina. The Board has contracted with Professional Credential Services (“PCS”) to provide administrative examination services. The Board, through PCS, will exclusively use the National-Interstate Council of State Boards of Cosmetology (“NIC”) examinations.

<https://www.pcshq.com/?page=cosmetologyandbarber,SouthCarolina>

40 – American Red Cross-Babysitting*

Designed for students ages 11 and older, this online training provides the knowledge and skills necessary to safely and responsibly care for infants and children up to the age of 10, as well as to manage a babysitting business.

<http://www.redcross.org/take-a-class/program-highlights/babysitting-caregiving>

[41—discontinued]

[42—discontinued]

* Perkins funds CANNOT be used to purchase the American Red Cross-Babysitting or First Aid/CPR/AED exams.

43 – Front Desk Representative (HSC)

The Front Desk Representative is a part of the Hospitality Skills Certification (HSC) programs. The HSC programs for hospitality employees brings the professional clout of the Educational Institute's (EI) certification programs to the people who are on the front-line with guests. EI offers designations for those who work in food and beverage, guest service, and housekeeping positions. HSC programs support skill and knowledge training integrated with performance assessment, recognition and achievement. To successfully earn a HSC designation, a candidate/employee must complete the following requirements: Be currently employed in the hospitality industry or be a student in a workforce development program or in a hospitality management program at an accredited school; Achieve a score of 70% or better on a written exam; Receive an "Acceptable" rating on 70% of the outlined tasks on the skills validation form.

[https://www.ahlei.org/Certifications/Line-Employees/Front-Desk-Representative-\(HSC\)/](https://www.ahlei.org/Certifications/Line-Employees/Front-Desk-Representative-(HSC)/)

44 – First Aid/CPR/AED*

The American Heart Association and the American Red Cross offer a variety of training courses for the workplace and healthcare professionals. Courses are designed to teach the skills of CPR for victims of all ages, use of an automated external defibrillator, relief of choking, and first aid skills. Courses are intended for participants who provide healthcare to family, patients, or co-workers in a wide variety of settings and can be tailored to the needs of specific groups and individuals.

American Heart Association: <http://www.americanheart.org>

American Red Cross: <http://www.redcross.org>

45 – CompTIA DHTI+

Custom Electronic Design Installation Association (CEDIA) certifications demonstrate your skills as a home technology professional and establish you as a credible partner to potential clients.

<http://www.cedia.net/train/cedia-certification>

46 – HVAC Excellence

The HVAC Excellence Student Outcome Assessment Program identifies high school students who have successfully attained the knowledge for entry-level positions in the HVACR industry. The Heating, Electrical, Air Conditioning Technology (HEAT) exam is designed to measure the students' retained knowledge of heating, electrical, and air conditioning theory and application. Students who pass the examination are awarded a certificate of achievement.

<http://www.hvacexcellence.org>

47 – Oracle

The Oracle Academy provides schools and school districts with the tools required to prepare students for twenty-first-century careers in technology. The program includes such courses as Database Programming with SQL, in which students gain an understanding of relational databases through the powerful Structured Query Language (SQL). The SQL commands, functions, and operators supported by Oracle as extensions to standard SQL are emphasized. The Database Programming with SQL portion of the Academy curriculum is designed to help prepare students to pass the Oracle Certified Professional (OCP) exam, "Introduction to Oracle9i SQL Exam." As part of the Academy, many students will want to take the OCP exam because it is the industry standard for proficiency with SQL.

<http://academy.oracle.com>

* Perkins funds CANNOT be used to purchase the American Red Cross-Babysitting or First Aid/CPR/AED exams.

[48—discontinued]**49 – ServSafe® Food Handler**

ServSafe Food Handler certification is available to South Carolina high school students. Recognized by the food service industry nationwide, this certification offers a number of benefits to the students by educating them in food safety and sanitation and improving their marketability in the workforce. The program covers five key areas: basic food safety, personal hygiene, cross-contamination and allergens, time and temperature, and cleaning and sanitation.

<http://www.servsafe.com/ss/foodhandler/>

[50—discontinued]**51 – Electrocardiographic (EKG) Technician**

The American Society of Phlebotomy Technicians (ASPT) provides training and certification in all areas of healthcare in which phlebotomists are now involved. As do all individuals who earn ASPT certification, those who hold ASPT certification as EKG Technicians must complete 6 hours of continuing education yearly in order to maintain that credential.

<http://www.aspt.org>

52 – Phlebotomist

The American Society of Phlebotomy Technicians (ASPT) provides training and certification in all areas of healthcare in which phlebotomists are now involved. As do all individuals who earn ASPT certification, those who hold ASPT certification as EKG Technicians must complete 6 hours of continuing education yearly in order to maintain that credential.

<http://www.aspt.org>

[53—discontinued]**54 – ADDA – Certified Apprentice Drafter**

The American Design Drafting Association (ADDA) Certification Program offers curriculum certification to schools as a means of quality assurance that benefits both education and industry. Curriculum certification through ADDA meets or exceeds the requirements set forth in most state and federal guidelines to receive funding for drafting and design programs. ADDA also offers professional certification to individuals through its Drafter Certification Program, which is open to all individuals, regardless of experience and formal education.

<http://www.adda.org>

55 – South Carolina Nail Technician License

The South Carolina Board of Cosmetology is responsible for licensing and regulating the profession of nail technology in the State of South Carolina. The Board has contracted with Professional Credential Services (“PCS”) to provide administrative examination services. The Board, through PCS, will exclusively use the National- Interstate Council of State Boards of Cosmetology (“NIC”) examinations.

<https://www.pcshq.com/?page=cosmetologyandbarber,SouthCarolina>

56 – NCCER – Core

[see entries 25–31, above]

57 – Sports Safety Training

Sports Safety Training is designed to help coaches, athletic trainers and athletic trainer aides identify and eliminate potentially hazardous conditions in various sports environments, recognize emergencies, and make appropriate decisions for first aid care. This certification through the American Red Cross includes Sports Injury Prevention and First Aid Course with additional training available in adult and child CPR and automated external defibrillation.

<http://www.redcross.org>

58 – NCCER – NCCT National Construction Career Test

[see entries 25–31, above]

59 – South Carolina Early Childhood Credential

The SC Early Childhood Credential is awarded to those who complete the three-hour introductory course in early childhood, ECD 101-Introduction to Early Childhood, with a grade of "C" or higher at one of the sixteen technical/community colleges in the state. This course includes the basic information and competencies a person would need to work with young children in a group setting. Individuals may enroll at their local technical/community colleges to take the course.

<http://www.sc-cccd.net/Credentialing/Credentialing.html>

60 – Cisco Certified Entry Networking Technician

Cisco Certified Entry Networking Technician (CCENT) certification validates the ability to install, operate and troubleshoot a small enterprise branch network, including basic network security. With a CCENT certification, a network professional demonstrates the skills required for entry-level network support positions, the starting point for many successful careers in networking. The curriculum covers networking fundamentals, WAN technologies, basic security and wireless concepts, routing and switching fundamentals, and configuring simple networks. CCENT is the first step toward achieving CCNA, which covers medium size enterprise branch networks with more complex connections.

http://www.cisco.com/web/learning/le3/le2/le45/learning_certification_level_home.html

[61—discontinued]

[62—discontinued]

63 – OSHA

Under the OSH Act, OSHA's role is to promote safe and healthful working conditions for America's men and women by setting and enforcing standards and providing training, outreach and education. The quality education and training programs are designed to prevent work-related injuries, illnesses and deaths by providing the knowledge and tools that workers and employers need to identify and correct workplace safety and health hazards.

<http://www.osha.gov>

64 – Certified Associate in Project Management (CAPM)

Under the OSH Act, OSHA's role is to promote safe and healthful working conditions for America's men and women by setting and enforcing standards and providing training, outreach and education. The quality education and training programs are designed to prevent work-related injuries, illnesses and deaths by providing the knowledge and tools that workers and employers need to identify and correct workplace safety and health hazards.

<http://www.pmi.org/CareerDevelopment/Pages/Obtaining-Credential.aspx>

65 – ACE - Adobe Certified Expert

Adobe Certified Expert is a professional-level certification aimed at industry professionals who have attained a deep level of mastery in using Adobe technology. An individual with the ACE certification is a qualified professional in fields such as web design, digital media, or rich Internet application development.

<http://www.adobe.com/support/certification/ace.html>

66 – Broad Field Family and Consumer Sciences Assessment/Certification

Broad Field Family and Consumer Sciences Assessment/Certification is an end-of-program assessment at a knowledge and skill level associated with early career employment opportunities and rigorous education programs that prepare for this level of the career ladder. Assessment and certification competency topics include interpersonal relationships, life span and human development, family well-being, career connections, family and consumer resources, and nutrition and wellness.

http://www.aafcs.org/CredentialingCenter/Broad_Field.asp

67 – Early Childhood Education Assessment/Certification

The Early Childhood Education Assessment/Certification is an end-of-program assessment that addresses a skill set necessary for success in early childhood education, which is one of the fastest growing programs that is reporting employment growth. Assessment and certification competency topics include career paths, developmentally appropriate practices, curriculum and instruction, learning environment, positive relationships with children, professional practices and standards, and family and community involvement.

<http://www.aafcs.org/CredentialingCenter/ece.asp>

68 – Personal and Family Finance Assessment/Certification

The Personal and Family Finance Assessment/Certification is an end-of-program assessment that addresses competencies necessary for success in managing personal and family financial matters in daily life (a necessary skill set to maximize success in all career areas) while also foundational specifically to careers in personal and family finance. Assessment and certification competency topics include financial responsibility and decision making, income and careers, planning and money management, credit and debt, risk management and insurance, and saving and investing.

<http://www.aafcs.org/CredentialingCenter/finance.asp>

69 – Culinary Arts Assessment/Certification

The Culinary Arts Assessment/Certification is an end-of-program assessment that addresses a skill set necessary for success in the culinary industry. Assessment and certification competency topics include safety, health, and environmental, management, leadership, and teamwork; ethics and leadership responsibilities, employability and career development, technical skills-customer service (FOH), technical skills (BOH), and preparation techniques (BOH).

<http://www.aafcs.org/CredentialingCenter/culinary.asp>

70 – Education Fundamentals Assessment/Certification

The Education Fundamentals Assessment/Certification is an end-of-program assessment that facilitates employment in early career ladder positions and promotes continuing education at the post-secondary level. Assessment and Certification Competency topics include the teaching profession; the learner and the learning process; planning instruction; learning environment; and, assessment and instructional strategies.

http://www.aafcs.org/CredentialingCenter/education_fundamentals.asp

71 – Family and Community Services Assessment/Certification

The Family and Community Services Assessment/Certification is an end-of-program assessment that facilitates employment in early career ladder positions and promotes continuing education at the post-secondary level. Assessment and certification competencies topics include careers and volunteer opportunities, factors related to family and community services, professional and ethical behaviors, conditions affecting individuals and families, and services for individuals and families.

http://www.aafcs.org/CredentialingCenter/family_services.asp

72 – Fashion, Textiles, and Apparel Assessment/Certification

The Fashion, Textiles, and Apparel Assessment/Certification is an end-of-program assessment that addresses a skill set necessary for success in the fashion industry. It is anticipated that this assessment and certification will be targeted for individuals preparing for careers related to fashion, textiles, and apparel. Assessment and certification competency topics include career paths, textile fiber products and materials, design skills, fashion, textile, and apparel production; fashion merchandising, customer service, and operational procedures.

http://www.aafcs.org/CredentialingCenter/fashion_textiles_apparel.asp

73 – Interior Design Fundamentals Assessment/Certification

The Interior Design Fundamentals Assessment/Certification is an end-of-program assessment that addresses competencies and a skill set necessary to document a pre-professional's basic knowledge of interior design. It is anticipated that this assessment and certification will promote further education at the post-secondary level and continued training and professional development for those who want to pursue interior design careers. Assessment and certification topics include career paths, design fundamentals, factors influencing design, design communication and skills development, interior design application and analysis, and professional practice.

http://www.aafcs.org/CredentialingCenter/interior_design_fundamentals.asp

74 – Nutrition, Food and Wellness Assessment/Certification

The Nutrition, Food and Wellness Assessment/Certification is an end-of-program assessment that addresses competencies and a skill set necessary for success as a pre-professional in careers with a substantial focus on nutrition. There are usage applications in a broad range of education, community-based, staff development, and human resource settings.

Assessment and certification topics include wellness, food handling, food safety, science and technology, nutrition principles, and careers.

<http://www.aafcs.org/CredentialingCenter/nutrition.asp>

75 – Housing and Furnishings Assessment/Certification

The Housing and Furnishings Assessment/Certification is an end-of-program assessment that addresses competencies and skills necessary for success as a pre-professional in housing and furnishing careers. It will facilitate employment in early career ladder positions and promote continuing education at the post-secondary level in career areas. Assessment and certification topics include careers in housing and furnishings, knowledge of housing and furnishings processes, residential housing, furnishings, and design concepts, professional communication and marketing, and professional practices.

http://www.aafcs.org/CredentialingCenter/Housing_and_Furnishings.asp

76 – Food Science Fundamentals Assessment/Certification

The Food Science Fundamentals Assessment/Certification is an end-of-program assessment that addresses competencies and a skill set necessary for success as a pre-professional in a career with a substantial focus on food science. It will facilitate employment in early career ladder positions and promote continuing education at the post-secondary level in career areas involving food science, food safety, food quality, food technology, or food preservation and packaging. Assessment and certification competencies include careers, food protection, nutritional composition of foods, food processing, preservation, & packaging; and, food technology.

http://www.aafcs.org/CredentialingCenter/Food_Science_Fundamentals.asp

77 – S/P2 – Auto Collision Repair

S/P2 is the industry standard of awareness in environmental and safety throughout the United States. The purpose of this certified program is to improve the quality of safety and pollution prevention training for students at the high school level. There are two areas in which students can obtain S/P2 national certification in automotive collision repair: Collision Safety and Collision Pollution Prevention.

<http://www.sp2.org>

78 – S/P2 – Auto Technology

S/P2 is the industry standard of awareness in environmental and safety throughout the United States. The purpose of this certified program is to improve the quality of safety and pollution prevention training for students at the high school level. There are two areas in which students can obtain S/P2 national certification in automotive technology: Mechanical Safety and Mechanical Pollution Prevention.

<http://www.sp2.org>

[79—discontinued]**80 – Adobe Certified Associate - Visual Communication with Adobe Photoshop**

Adobe Certified Associate is an entry-level certification aimed at validating communication skills using a particular digital medium. The Visual Communication with Adobe® Photoshop® exam validates entry-level skills in communication corresponding to Adobe Photoshop software. Photoshop is the industry standard for the utmost creative control in image editing and compositing. One can apply filters nondestructively, manage and correct color more easily, convert color images to rich black-and-white with one click, and retouch images with more powerful cloning and healing tools.

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=666&roleis=101>

81 – Adobe Certified Associate-Web Communication with Adobe Dreamweaver

Adobe Certified Associate is an entry-level certification aimed at validating communication skills using a particular digital medium. The Web Communication with Adobe® Dreamweaver® exam validates entry-level skills in communication corresponding to Adobe Dreamweaver software. Dreamweaver is the industry leading web development tool, enabling users to efficiently design, develop and maintain standards-based web sites and applications. With Dreamweaver, one can go from start to finish, creating and maintaining basic web sites to advanced applications that support best practices and the latest technologies.

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=666&roleis=101>

82 - Adobe Certified Associate - Rich Media Communication with Adobe Flash

Adobe Certified Associate is an entry-level certification aimed at validating communication skills using a particular digital medium. The Rich Media Communication with Adobe Flash® Professional exam validates entry-level skills in communication corresponding to Adobe Flash Professional software. Flash is the industry standard for creating and delivering effective, rich interactive content across desktops and devices. Flash enables users to integrate animation, video, text, audio and graphics into engaging user experiences that span a wide variety of digital devices, from desktops to mobile phones.

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=666&roleis=101>

83 - Adobe Certified Associate-Video Communication with Adobe Premiere Pro

Adobe Certified Associate is an entry-level certification aimed at validating communication skills using a particular digital medium. The Video Communication with Adobe Premiere® Pro exam validates entry-level skills in communication corresponding to Adobe Premiere Pro software.

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=666&roleis=101>

84 - Microsoft Technology Associate (MTA) Certification

The Microsoft Technology Associate (MTA) certification is an entry-level certification designed to help individuals take the first step toward a career as an IT professional or developer by demonstrating knowledge and basic understanding of key technology concepts. An MTA certification is based on 80 percent knowledge and 20 percent skills. The MTA offers three IT certifications, three development certifications, and one database certification. The IT section includes tests in Networking Fundamentals, Security Fundamentals, and Windows Server Administration Fundamentals. The development certification offers tests in Software Development Fundamentals, Windows Development Fundamentals, and Web Development Fundamentals. The database certification covers Database Administration Fundamentals.

<https://www.microsoft.com/learning/en-us/mta-certification.aspx>

85 - Microsoft Digital Literacy Certification

The goal of Microsoft Digital Literacy is to teach and assess basic computer concepts and skills so that students can use computer technology in everyday life to develop new social and economic opportunities for themselves, their families, and their communities. Whether you are entirely new to computing or have some experience, this curriculum will help you develop a fundamental understanding of computers. From using the Internet to sending e-mail or creating a résumé, the Digital Literacy Curriculum helps develop the essential skills one needs to begin computing by focusing on computer basics, Internet and the World Wide Web, productivity, computer security and digital lifestyles.

<http://www.microsoft.com/about/corporatecitizenship/citizenship/giving/programs/up/digitalliteracy/eng/curriculum.msp>

86 - MOS Office 2010 - Word 2010**87 - MOS Office 2010 - Word 2010 Expert****88 - MOS Office 2010 - Excel 2010****89 - MOS Office 2010 - Excel 2010 Expert****90 - MOS Office 2010 - PowerPoint 2010****91 - MOS Office 2010 - Outlook 2010****92 - MOS Office 2010 - Access 2010**

A Microsoft Office Specialist (MOS) certification helps validate proficiency in using Microsoft Office 2010 and meets the demand for the most up-to-date skills on the latest Microsoft technologies. Candidates who pass a certification exam show that they can meet globally recognized performance standards. Candidates must pass one certification exam in order to earn MOS certification.

<http://www.microsoft.com/learning/en/us/mos-certification.aspx>

- 93 - MOS Office 2007/Vista - Word 2007**
- 94 - MOS Office 2007/Vista - Word 2007 Expert**
- 95 - MOS Office 2007/Vista - Excel 2007**
- 96 - MOS Office 2007/Vista - Excel 2007 Expert**
- 97 - MOS Office 2007/Vista - PowerPoint 2007**
- 98 - MOS Office 2007/Vista - Outlook 2007**
- 99 - MOS Office 2007/Vista - Access 2007**

Microsoft Office Specialist (MOS) certifications, which focus on demonstrating skills in using the 2007 Microsoft Office System and the Windows Vista operating system, are still very much in demand. Candidates who pass certification exams show that they can meet globally recognized performance standards. A candidate must pass one certification exam in order to earn MOS certification.

<http://www.microsoft.com/learning/en/us/mos-certification.aspx>

- A0 - MOS Office 2003/XP/2000: Word 2003**
- A1 - MOS Office 2003/XP/2000: Word 2003 Expert**
- A2 - MOS Office 2003/XP/2000: Excel 2003**
- A3 - MOS Office 2003/XP/2000: Excel 2003 Expert**
- A4 - MOS Office 2003/XP/2000: PowerPoint 2003**
- A5 - MOS Office 2003/XP/2000: Access 2003**
- A6 - MOS Office 2003/XP/2000: Outlook 2003**

Microsoft Office Specialist (MOS) certification continues to offer tracks for Microsoft Office 2003, Microsoft Office XP, and Microsoft Office 2000. To earn a MOS certification, one must pass one or more certification exams. MOS certification exams help provide a valid and reliable measure of technical proficiency and expertise. These MOS certification exams evaluate a candidate's overall comprehension of Microsoft Office or Office Project programs, as well as his or her ability to use advanced features and integrate Microsoft Office programs with other software.

<http://www.microsoft.com/learning/en/us/mos-certification.aspx>

A7 - CompTIA Strata IT Fundamentals

The CompTIA Strata IT Fundamentals certificate program offers individuals a broad introduction to computing technology and serves as a critical stepping stone to advanced technical learning and IT skills. The exam measures an individual's knowledge of basic IT terminology and skills, such as setting up a basic PC work station, installing software, identifying compatibility issues, and recognizing and preventing basic security risks. The CompTIA Strata IT Fundamentals certificate ensures the knowledge of PC components, functionality, compatibility and related technology topics.

http://certification.comptia.org/getCertified/certificates/strata_it_fundamentals.aspx

<http://www.certiport.com/portal/DesktopDefault.aspx?page=common/pagelibrary/strata.htm>

A8 - Secondary Culinary Graduate

Students are able to obtain a Secondary Culinary Graduate certification if they graduate from an American Culinary Federation Education Foundation (ACFEF) Secondary Certified program, pass a national competency written exam with a cut score of 70%, or pass with an overall average of 70% of the written and performance exams.

http://www.acfchefs.org/download/documents/Accreditation/cjc_graduate.pdf

A9 - Certified Junior Culinarian

Students are able to obtain a Certified Junior Culinarian (CJC) certification if they graduate from an American Culinary Federation Education Foundation (ACFEF) Secondary Certified program and pass a national competency exam with a score of 70% or higher on the written exam and 75% or higher on the practical exam.

http://www.acfchefs.org/download/documents/Accreditation/cjc_graduate.pdf

A10 - WISE – Financial Literacy Certification Program (FLCP)

The Wise Financial Literacy Certification Program (FLCP) addresses the urgent need for financial literacy and education. The program provides high school students with access to financial education and the opportunity to become certified financially literate.

<http://www.wise-ny.org/programs.htm>

A11 - ETC Certification Course

The ETC program is designed and produced by the National Academies of Emergency Dispatch (NAED). The course (40 hours minimum) is designed to train new employees unfamiliar with emergency communication centers, emergency telecommunication technology, interpersonal communication, legal issues, and job stress factors. The program takes an integrated teaching approach that features comprehensive content, multimedia presentations, and hands-on training. The course covers the following topics: Roles and Responsibilities of the Emergency Telecommunicator, Emergency Telecommunication Technologies, Telecommunication Essentials, Interpersonal Communication, Caller Management, Police Call Classification, Fire Call Classification, Medical Call Classification, Man-Made and Natural Catastrophic Events, Radio Broadcast Procedures, Legal Aspects of Public Safety Communication, Quality Improvement and Stress Management.

<http://www.naemd.org/Certification>

A12 - PrintED®-GAERF®

PrintED®, administered by the Graphic Arts Education and Research Foundation (GAERF®), is a national accreditation program, based on industry standards, for graphic communications courses of study at the secondary and postsecondary levels. To provide students with a credential that validates their mastery of the PrintED competencies, GAERF and SkillsUSA have partnered to offer online PrintED/SkillsUSA Skill Connect Assessments. The following five examinations test technical skills and knowledge with interactive questions enriched by animation, videos, drawings, and photographs: Advertising & Design, Digital File Preparation/Digital File Output, Graphic Communications, Offset Press Operations/Binding & Finishing, and Screen Printing Technology.

<http://www.gaerf.org>

A13 - Teen Babysitting Class

This two-day class is ideal for teens between the ages of 12 and 15 who will practice baby care with life-like dolls and learn how to diaper, bathe and dress infants. Participants learn infant and child CPR through the American Heart Association and learn basic first aid safety.

<http://thehealthsourceatkidsake.com/teenbabysittingclass.aspx>

A14 – Skills, Tasks, and Results Training (START) Certification

The American Hotel & Lodging Educational Institute has developed a hospitality program to introduce high school students to the opportunities available in the hospitality and tourism industry, the Hospitality and Tourism Management Program focuses on educating students on the career pathways and skills needed to build a long-term career in this fast paced and exciting industry!

<https://www.ahlei.org/programs/high-school/START/>

A15 – ServSafe® Manager

Managers need to know food safety and the critical importance of its role, and they need to learn how to share food safety knowledge with every employee. The program blends the *latest FDA Food Code*, food safety research and years of food sanitation training experience. Managers learn to implement essential food safety practices and create a culture of food safety. All content and materials are based on actual job tasks identified by foodservice industry experts.

<http://www.servsafe.com/manager/food-safety-training-and-certification>

[A16—discontinued]**A17 – ParaPro Assessment**

The ParaPro Assessment measures the skills and knowledge in reading, writing and math possessed by prospective and practicing paraprofessionals. It also measures their ability to apply those skills and knowledge when assisting in classroom instruction. It was designed to satisfy the requirements of the federally legislated No Child Left Behind Act.

<http://www.ets.org/parapro/about/>

A18 – TestOut PC Pro Certification

The TestOut PC Pro Certification is the first exam of TestOut Pro Certifications—certifications that measure not just what you know, but what you can do. The TestOut PC Pro Certification measures your ability to install, manage, repair, and troubleshoot PC hardware and Windows operating system software.

- The certification focuses on validating job skills. It will include the following areas of focus:

Audio, CPU, Expansion slots, External devices, (USB, Firewire, parallel, keyboard/mouse, serial), Memory, Motherboard, Networking, Power supply, Printing, Security, Storage, System Management, Video.

- The TestOut PC Pro Certification exam is a culminating exam and students should have completed an entire course of study for PC hardware and software (equivalent to both TestOut A+ courses).

<http://www.testout.com/home/certification/testout-pc-pro-certification>

A19 – TestOut Network Pro Certification

The TestOut Network Pro Certification is the second exam in the TestOut Pro Certification exam product line. The TestOut Network Pro Certification Exam measures your ability to perform real-world tasks using the Windows operating system and common networking hardware. The certification focuses on validating job skills. It will include the following areas of focus:

Cables and Connectors, Wired Networking, Wireless Networking, Network Connection, Configuration, Network Services, Network Security, Network Management Network, Troubleshooting.

<http://www.testout.com/home/certification/testout-network-pro-certification>

[A20—discontinued]**A21 - Network Computer Technician Certification – NCT**

Network Computer Technicians, who are certified, are expected to obtain knowledge of computer electronics basic concepts, Internet and networking technology applicable to various areas of the computer industry. Once the NCT has acquired these skills, abilities and knowledge, he or she will be able to enter employment in any part of the computer industry. With minimal training in areas unique to the specific products, the NCT should become a profitable and efficient part of the computer industry workforce. NCTs are not required to pass the Associate, or basic electronics, technician examination. Journeyman NCTs may pass the Associate exam and, by doing so, become a C.E.T. (showing the NCT specialty area.)

http://www.eta-i.org/information_technology.html#NCT

A22 - Network Systems Technician Certification – NST

Network Systems Technicians, who are certified, are considered a network professional, who are expected to obtain knowledge of computer network basic concepts, which are applicable to all the various specialty areas of the computer industry. Once the NST has acquired these skills and knowledge, the technician will be able to enter employment in any part of the computer networking industry. With minimal training in areas unique to the specific products, the NST should become a productive member of computer industry workforce. Candidates who are interested in taking the NST exam are not required to pass the Associate, or basic electronics, exam. However, potential NST's must have already acquired one of the following: 1) The CST (Computer Service Technician); 2) The NCT (Network Computer Technician Certification); or 3) The A+ as a prerequisite to sitting for the NST examination.

http://www.eta-i.org/information_technology.html#NST

A23 - Computer Service Technician Certificate - CST

This program prepares students for careers diagnosing and repairing common computer related malfunctions and installing PC equipment and peripheral systems. Because communication skills are essential for computer technicians and support specialists, it also focuses on enhancing teamwork and written and verbal communication skills. Successful completion prepares the student for the Comp TIA A+ certification exam.

http://www.eta-i.org/information_technology.html#CST

A24 - Wireless Network Technician Certification - WNT

The Wireless Network Technician Certification is a program to obtain knowledge of the operation and maintenance of wireless networking concepts, RF and IR propagation and modulation technologies, which are applicable to all the various specialty areas of the wireless networking industry. Once the WNT has acquired these skills and knowledge, the technician will be able to enter employment in any part of the networking industry. With minimal training in areas unique to the specific products, the WNT should become a productive member of computer industry workforce.

http://www.eta-i.org/information_technology.html#WNT

A25 - EPA Auto Body Regulation Training Certification

Many paints used in auto body refinishing work contain compounds that pose health risks to anyone who breathes the air when these fumes are present. To reduce this risk and to reduce air pollution of metals such as chrome, lead, cadmium, manganese, and nickel compounds, as well as methylene chloride fumes from auto body refinishing work, Environmental Protection Agency (EPA) regulations require auto body shops and refinishing businesses to follow steps to prevent these metals from getting in to the air during spray

painting. Training is one of the required steps, and certificates issued upon completion of training are valid for five years.

<http://www.ecfr.gov/cgi-bin/text-idx?SID=9849a38939ee1fb520b19d3bf296f7ce&node=sp40.15.63.hhhhhh&rgn=div6>

A26 - South Carolina Registered Barber License

The South Carolina Board of Barber Examiners is responsible for licensing and regulating the profession of barbering in the State of South Carolina. The Board has contracted with Professional Credential Services ("PCS") to provide administrative examination services. The Board, through PCS, will exclusively use the National-Interstate Council of State Boards of Cosmetology ("NIC") examinations.

<https://www.pcshq.com/?page=cosmetologyandbarber,SouthCarolina>

A27 - South Carolina Hair Braiding Registration

The South Carolina Board of Barber Examiners is responsible for licensing and regulating the profession or hair braiding in the State of South Carolina. Individuals wishing to practice hair braiding are required to hold a hair braiding registration.

<http://www.llr.state.sc.us/POL/Barber/index.asp?file=Files/hairbraidinfo.htm>

A28 - South Carolina Esthetician

The South Carolina Board of Cosmetology (the "Board") is responsible for licensing and regulating the profession of cosmetology in the State of South Carolina. The Board has contracted with Professional Credential Services ("PCS") to provide administrative examination services. The Board, through PCS, will exclusively use the National- Interstate Council of State Boards of Cosmetology ("NIC") examinations.

<https://www.pcshq.com/?page=cosmetologyandbarber,SouthCarolina>

A29 - Emergency Telecommunicator Certification

Emergency Telecommunicator Certification is available to those who successfully complete the National Academies of Emergency Dispatch emergency communicator course (40 hours minimum). The program is designed to train new employees unfamiliar with emergency communications centers, emergency telecommunication technology, interpersonal communication, legal issues, and job stress factors.

www.emergencydispatch.org/Certification

A30 - Financial Literacy

EverFi- Financial Literacy™ covers complex financial concepts covering more than 600 topics, including credit scores, budgeting, insurance, credit cards, student loans, mortgages, taxes, stocks, savings, 401k's and other critical concepts. EverFi tracks individual student progress and knowledge gain and provides students who successfully complete the course with certification in financial literacy.

<http://www.everfi.com/everfi>

A31 - Digital Literacy

Ignition Digital Literacy and Responsibility™ informs students in grades 7th – 9th on how technology works, while also placing them in virtual environments to tackle issues including privacy, security, cyber bullying, digital relationships, and the viral nature of the web.

<http://www.everfi.com/ignition>

A32 - MOS: Microsoft Office Word 2013

A33 - MOS: Microsoft Office Excel 2013

A34 - MOS: Microsoft Office PowerPoint 2013

A35 - MOS: Microsoft Office Outlook 2013**A36 - MOS: Microsoft Office Access 2013****A37 - MOS: Microsoft Office SharePoint 2013****A38 - MOS: Microsoft Office OneNote 2013**

Office 2013 meets the demand for the most up-to-date skills on the latest Microsoft technologies. Candidates who pass a certification exam show that they can meet globally recognized performance standards. Candidates must pass one certification exam in order to earn MOS certification.

<http://www.microsoft.com/learning/en-us/office-certification.aspx>

A39 - Adobe Certified Associate–Print & Digital Media Publication with Adobe InDesign

The Print & Digital Media Publication with Adobe InDesign® exam validates entry-level skills in print and digital media publication corresponding to Adobe InDesign software.

<http://www.adobe.com/education/resources/certificate-programs/indesign-exam-objectives.edu.html>

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=666&roleis=101>

A40 - Adobe Certified Associate - Graphic Design & Illustration with Adobe Illustrator

The Graphic Design & Illustration with Adobe Illustrator® exam validates entry-level skills in graphic design and illustration corresponding to Adobe Illustrator software.

<http://www.adobe.com/education/resources/certificate-programs/illustrator-exam-objectives.edu.html?>

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=666&roleis=101>

A41 - TestOut Security Pro Certification

The TestOut Security Pro Certification is the third exam in the TestOut Pro Certification exam product line. The TestOut Security Pro Certification Exam measures your ability to implement and configure security on an array of common devices, including a Microsoft Server, Cisco Network Security Appliance, Cisco Small Business switch, wireless Access Point, workstations (Windows and Linux) and an iPad iOS.

<http://www.testout.com/home/certification/testout-security-pro-certification>

A42 - South Carolina Master Hair Care License

The South Carolina Board of Barber Examiners is responsible for licensing and regulating the profession of barbering in the State of South Carolina. The Board has contracted with Professional Credential Services ("PCS") to provide administrative examination services. The Board, through PCS, will exclusively use the National-Interstate Council of State Boards of Cosmetology ("NIC") examinations.

<https://www.pcshq.com/?page=cosmetologyandbarber,SouthCarolina>

A43 - ACF Retail Commercial Baking Assessment

The American Culinary Federation Education Foundation validates this assessment as a proper display of student's comprehension of standards and curriculum for Baking and Pastry.

http://www.nocti.org/PDFs/2500%20ACF_Retail_Commercial_Baking.pdf

A44 - CSWA- SolidWorks Associate Certification

This certification can be used as a benchmark to measure the student knowledge and competency with SolidWorks software.

<http://www.solidworks.com>

A45 - RCA-Basic Principles for Construction**A46 - RCA-Electrical Principles****A47 - RCA-House Wiring****A48 - RCA-Electrical Wiring**

Residential Construction Academy (RCA)

Delmar, Cengage Learning, and the Home Builders Institute (HBI), the workforce development arm of the National Association of Home Builders (NAHB), offer industry-developed certification protocols for instructors and students using educational materials from the Residential Construction Academy (RCA) Series. Designed with input from educators and industry, the material supports skill standards developed by NAHB and industry experts. Courses offer students the basics of electrical study, and a tenet of the series is that students learn by doing. A student earns a certificate for the successful completion of each course, which, in turn, can lead to an entry-level position doing electrical work and/or to further studies at the technical college level.

<http://www.cengagesites.com/academic/?site=4389>

A49 - Cooking and Baking Exam

The National Restaurant Association has created exams that measure knowledge on general procedures, core principles, technical skills, and the how's and why's of cooking and baking. The certificate exams attest that students have met the learning objectives and have full knowledge of the principles and practices of the culinary arts. Because the exams evaluate the student's grasp of generally accepted principles of cooking and baking, they can be used as a capstone for any culinary program.

<http://www.servsafe.com/ss/culinary/>

A50 - Heads Up: Concussion in Youth Sports

Free on-line course that will help you: understand a concussion and the potential consequences of this injury; recognize concussion signs and symptoms and how to respond; learn about steps for returning to activity (play and school) after a concussion; and focus on prevention and preparedness to help keep athletes safe season-to-season.

http://www.cdc.gov/concussion/HeadsUp/online_training.html

A51 - Paid Feeding Assistants

South Carolina nursing facilities employ Paid Feeding Assistants (PFAs) in an effort to provide more residents with help in eating and drinking and to reduce the incidence of unplanned weight loss and dehydration. PFAs must successfully complete an eight-hour state-approved feeding assistant training program and work under the supervision of a registered nurse or licensed practical nurse. The SC Department of Health and Human Services (HHS) is responsible for developing and implementing policies for the PFA program. www.scdhhs.gov/internet/pdf/manuals/Nursing/Section%202.pdf

A52 - CompTIA Security+ Certification

CompTIA Security+ is an international, vendor-neutral certification that demonstrates competency in: network security; compliance and operational security; threats and vulnerabilities; application, data and host security; access control and identity management; and cryptography. CompTIA Security+ not only ensures that candidates will apply knowledge of security concepts, tools, and procedures to react to security incidents; it ensures that security personnel are anticipating security risks and guarding against them.

<http://certification.comptia.org/getCertified/certifications/security.aspx>

A53 - Systems Security Certified Practitioner - SSCP from (ISC)²®

The SSCP is ideal for those working in or towards positions such as: security; network security engineering; systems analyst; information systems auditor; application

programmer; security administrator; systems administrator; network administrator; database administrator; business unit representative; security architect; security consultant/specialist; information assurance technician. The SSCP credential ensures that candidates continuously monitor systems to safeguard against security threats while having the knowledge to apply security concepts, tools and procedures to react to security incidents. The SSCP credential demonstrates competency in the following CBK® domains: Access Controls; Cryptography; Malicious Code and Activity; Monitoring and Analysis; Networks and Communications; Risk, Response and Recovery; Security Operations and Administration.

<https://www.isc2.org/sscp/Default.aspx>

A54 - Autodesk User Certification for Maya

Career and technical education programs across the United States equip students with marketable 2D and 3D design skills by teaching them to use state-of-the-art Autodesk® design software. Autodesk Certified User (ACU) certification confirms students have the skills necessary to continue their design careers—whether they attend college, enter the workforce or work toward additional levels of industry certification after graduation.

<http://www.certiport.com/portal/desktopdefault.aspx?tabid=667&roleid=101>

http://images.autodesk.com/adsk/files/Autodesk_Maya_2014_Certification_Roadmap_web.pdf

A55 - Autodesk Inventor Certified User Exam

In collaboration with Certiport, Project Lead The Way students who have completed the Introduction to Engineering Design course can take the Autodesk Inventor Certified User exam for certification.

- For PLTW schools only, each exam voucher is \$49.00.
- The voucher is valid for 12 months and includes a retake opportunity.
- The 45 minute exam can be administered online at your school.
- Passing students receive a digital certificate from Autodesk.
- A free study guide, created by Autodesk, is available.
- Practice test are available with exam and learning modes.

For details, call Certiport at 1-888-999-9830 or email at autodeskinfo@certiport.com

A56 - Microsoft Certified Solutions Associate (MCSA)

MCSA (Microsoft Certified Solutions Associate) is a certification program intended for people who seek entry-level jobs in an IT (information technology) environment. MCSA is a prerequisite for more advanced Microsoft certifications.

The MCSA credential supplants the now defunct Microsoft Certified Systems Administrator certification. Students can select any of the following specialty areas:

- Windows Server 2008
- Windows Server 2012
- SQL Server 2012
- Windows 7
- Windows 8

As they advance in the MCP program, professionals can gain any or all of the following certifications:

- Microsoft Certified Systems Engineer (MCSE)
- Microsoft Certified Solutions Developer (MCSD)
- Microsoft Certified Product Specialist (MCPS)
- Microsoft Certified Trainer (MCT)

<https://www.microsoft.com/learning/en-us/mcsa-certification.aspx>

A57 - Windows Server Pro: Install and Configure (Part 1)

LabSim for Windows Server Pro, TestOut's course for entry-level Server 2012 administration, will give you the knowledge you need to pass Microsoft's 70-410 exam, plus the hands-on experience that you will need to pass TestOut's Windows Server Pro: Install and Configure Certification exam (beta). Throughout this interactive course you will be able to practice your ability to design, implement, configure, and manage a Windows network that incorporates Windows Server 2012.

New labs include:

- Using Hyper-V to create and manage virtual machines.
- Configuring NIC teaming.
- Creating storage pools.
- Configure printer pooling using a Print Management Console
- Installing and configuring a DHCP server.

<http://www.testout.com/home/it-certification-training/labsim-certification-training/windows-server-pro>

A58 - Windows Server Pro: Manage and Administer (Part 2)

TestOut's newest release for the MCSA certification track will take your Windows Server skills to the next level and prepare you for Microsoft's 70-411 exam as well as TestOut's **Windows Server Pro: Manage and Administer Certification** exam (anticipated beta release in Q3 of 2014).

Windows Server Pro: Manage and Administer will give you experience with:

- Maintaining a multi-site network
- True-to-life DNS functionality
- Active Directory Administrative Center
- File Server Resource Manager
- Managing group policies
- System Health Validator policies

<http://www.testout.com/home/it-certification-training/labsim-certification-training/windows-server-pro>

A59 - Windows Server Pro: Advance Services (Part 3)

Windows Server Pro: Advanced Services, the capstone course to our MCSA certification track, simulates a network of over forty servers in seven locations. The advanced lab simulations in this course will allow you to practice complex tasks that you would be expected to perform on servers at a mid-size business. You will gain experience using:

- Server Manager
- iSCSI Initiator
- DHCP Manager-Advanced Services
- DNS - Advanced Services
- Failover Cluster Manager
- Hyper-V Manager
- AD-RMS

<http://www.testout.com/home/it-certification-training/labsim-certification-training/windows-server-pro>

A60 - Heat Illness Prevention

Exertional heat stroke is the leading cause of preventable death in high school athletics. Exertional heat stroke also results in thousands of emergency room visits and hospitalizations throughout the nation each year. This free course, brought to you by EAS Sports Nutrition, a division of Abbott Labs, is designed to give you the critical information you need to minimize the risk of exertional heat stroke among your athletes. The course presents seven fundamentals, which when followed, will minimize heat related illnesses of the students who participate.

<http://nfhslearn.com/courses/34000>

A61 - Certified Guestroom Attendant

The Certified Guestroom Attendant is a part of the Hospitality Skills Certification (HSC) program. The HSC programs for hospitality employees brings the professional clout of the Educational Institute's (EI) certification programs to the people who are on the front-line with guests. EI offers designations for those who work in food and beverage, guest service, and housekeeping positions. HSC programs support skill and knowledge training integrated with performance assessment, recognition and achievement. To successfully earn a HSC designation, a candidate/employee must complete the following requirements: Be currently employed in the hospitality industry or be a student in a workforce development program or in a hospitality management program at an accredited school; Achieve a score of 70% or better on a written exam; Receive an "Acceptable" rating on 70% of the outlined tasks on the skills validation form.

[https://www.ahlei.org/Certifications/Line-Employees/Guestroom-Attendant-\(HSC\)/](https://www.ahlei.org/Certifications/Line-Employees/Guestroom-Attendant-(HSC)/)

A62 - Restaurant Server

The Certified Restaurant Server is a part of the Hospitality Skills Certification (HSC) program. The HSC programs for hospitality employees brings the professional clout of the Educational Institute's (EI) certification programs to the people who are on the front-line with guests. EI offers designations for those who work in food and beverage, guest service, and housekeeping positions. HSC programs support skill and knowledge training integrated with performance assessment, recognition and achievement. To successfully earn a HSC designation, a candidate/employee must complete the following requirements: Be currently employed in the hospitality industry or be a student in a workforce development program or in a hospitality management program at an accredited school; Achieve a score of 70% or better on a written exam; Receive an "Acceptable" rating on 70% of the outlined tasks on the skills validation form.

[https://www.ahlei.org/Certifications/Line-Employees/Restaurant-Server-\(HSC\)/](https://www.ahlei.org/Certifications/Line-Employees/Restaurant-Server-(HSC)/)

A63 - Certified Maintenance Employee (HSC)

The Certified Maintenance Employee is a part of the Hospitality Skills Certification (HSC) program. The HSC programs for hospitality employees brings the professional clout of the Educational Institute's (EI) certification programs to the people who are on the front-line with guests. EI offers designations for those who work in food and beverage, guest service, and housekeeping positions. HSC programs support skill and knowledge training integrated with performance assessment, recognition and achievement. To successfully earn a HSC designation, a candidate/employee must complete the following requirements: Be currently employed in the hospitality industry or be a student in a workforce development program or in a hospitality management program at an accredited school; Achieve a score of 70% or better on a written exam; Receive an "Acceptable" rating on 70% of the outlined tasks on the skills validation form.

[https://www.ahlei.org/Certifications/Line-Employees/Restaurant-Server-\(HSC\)/](https://www.ahlei.org/Certifications/Line-Employees/Restaurant-Server-(HSC)/)

A64 - Advanced Child Care Training

Advanced Child Care Training provides the tools needed for the best care to infants and children aged 10 and younger. Geared for sitters, nannies, au pairs and caregivers 16 and older, this course is composed of both online and in-person learning, ensuring that the knowledge and skill-set needed are received in the most engaging format.

<http://www.redcross.org/take-a-class/program-highlights/advanced-child-care-training>

CATE Placement Code

School districts and career centers are required by South Carolina law (S.C. Code Ann. § 59-53-1960) and by State Board of Education Regulation 43-234 to survey their CATE completers ten months after graduation to determine their placement status with regard to employment, postsecondary education, or military service. A record of the responses to this survey must be maintained by the districts/career centers for a period of three years. The survey records should contain sufficient information to allow for the verification of all reported placements.

In order to be available for placement, students must be program completers and must have graduated.

- ▶ **Data Entry** (dropdown box): appropriate CATE placement code

- A** – Employed, Related
- B** – Employed, Unrelated
- C** – Continuing Education or Postsecondary Education
- D** – Military
- E** – Unemployed or Not Seeking Employment
- F** – Not Available for Placement (Status Unknown, Deceased, Incarcerated, or Medical Disability)
- G** – Still in High School

Placement Information Necessary for Verification

- ▶ For students placed in **employment (placement code A or B)**

Placement Employer

Entry: name of the company (35-character limit) where the student was placed after graduation

Placement Phone

Entry: phone number (15-character limit) of the student's employer

Placement Job Title

Entry: title of the job (25-character limit) in which the student was placed after graduation

Placement Supervisor Name

Entry: name of the supervisor (25-character limit) within the company where the student was placed after graduation

Placement Start Date

Entry: student's start date for placement in employment after graduation

- ▶ For students placed in **higher education (placement code C)**

Placement Higher Ed Name

Entry: name of the postsecondary institution (25-character limit) the student attended after graduation

Placement Higher Ed Program

Entry: name of the program (25-character limit) at the postsecondary institution to which the student was admitted

- ▶ For students placed in **military (placement code D)**

Placement Military Branch

Entry: name of the military branch (30-character limit) in which the student enlisted after graduation

Placement Military Training

Entry: name of the type of military training (25-character limit) the student received from the military branch in which he or she enlisted after graduation

Placement data are used to assess the placement indicator required by Perkins IV and the career center report card measure for placement. As mandated in Section 59-53-1960 of the Code of Laws of South Carolina, to continue existing work force preparation programs, other than career and technology agriculture, fifty percent of the graduates available for placement must be placed during the prior three years in the area for which training was provided. The placement data reported each school year is compiled with the data reported for the previous two years to obtain the average placement rate over the three-year period.

Students must be advised prior to enrollment in a work force preparation program of the possible discontinuation of the program and of the employment outlook for program graduates. Students enrolling in CATE programs that are not preparatory for employment must be clearly advised of this fact by the school district.

Data Extracted from Other PowerSchool Pages (For Reporting Purposes)

Economically Disadvantaged

The data for this special population will be extracted from the **Lunch Status** field located on the Lunch Page. The **Lunch Status** field indicates whether the student is eligible or not eligible for free or reduced price meals.

Individuals with Disabilities

The data for this special population will be extracted from the **Instructional Setting** field located on the South Carolina Additional Student Information Page. The **Instructional Setting** field indicates that the student is currently receiving special education services and has an Individualized Education Program (IEP) in effect.

English Proficient

The data for this special population will be extracted from the **English Prof** field located on the Additional Student Information Page. The **English Prof** field indicates the student's proficiency level in English.

Migrant

The data for this special population will be extracted from the **Migrant** field located on the Additional Student Information Page. Migrant status is based upon the following definition:

A migratory student is a student who is, or whose parent, spouse, or guardian is, a migratory agricultural worker, including a migratory dairy worker, or a migratory fisher, and who, in the preceding 36 months, in order to obtain, or accompany such parent or spouse in order to obtain temporary or seasonal employment in agricultural or fishing work: has moved from one school district to another; or in a State that is comprised of a single school district, has moved from one administrative area to another within such district; or resides in a school district of more than 15,000 square miles, and migrates a distance of 20 miles or more to a temporary residence to engage in a fishing activity.

Diploma Earned

The **Diploma Earned** field indicates if the student received a state diploma and is located on the Student Supplemental Page.

PowerSchool Scheduling, Sections Page

District Where Taught and School Where Taught

All sections of each particular CATE course taught at a location other than the student's home high school (e.g., career center) must have the other school's seven-digit school identification number (SIDN, sometimes referred to as the BEDS code). Accurate SIDN numbers will allow the career center or other school to be identified as teaching the particular course(s).

- ▶ **Data Entry:** **first four digits** of the seven-digit center SIDN in **District Where Taught** and the **last three digits** of the center SIDN in **School Where Taught**

Example: Chloe Charles is a student at Motteville High School (school SIDN - 0102003) and attends Granby Oats Career and Technology Center (school SIDN - 0102995) where she is enrolled in SAS Programming 1 taught by teacher Beverly Mitchell.

On the Sections Page for the SAS Programming (532700CW) course taught by Beverly Mitchell the **District Where Taught** field would have the entry of **0102** and the **School Where Taught** field would have the entry of **995** which would identify that the courses are taught at the career and technology center and not at the high school.

The image shows a screenshot of the 'Edit Section' form in PowerSchool. A red callout box highlights the 'District Where Taught' and 'School Where Taught' fields. The 'District Where Taught' field is labeled '(Enter District ID if Taught At Different District. Otherwise, Leave Blank.)' and the 'School Where Taught' field is labeled '(Enter School ID if Taught At Different School. Otherwise, Leave Blank.)'. Other fields visible in the form include 'Dependent Sections', 'Program', 'Record Attendance Using Attendance Mode', 'Record Attendance', and 'Exclude From Attendance'. The 'Record Attendance' field has a note: '(only applicable if Record Attendance Using Attendance Mode Includes Meeting)'. The 'Exclude From Attendance' field has a note: '(only applicable if Record Attendance Using Attendance Mode Includes Meeting)'. The 'District Where Taught' field is circled in red in the original image, and a red arrow points from it to the callout box.

Data Collection and Submission Notes

- ❖ Ensure that the appropriate **CIP Code** has been selected from the drop-down box. A listing of CIP Codes can be found in Appendix C.
- ❖ Ensure approval has been received for a Custom/Cross-Cluster CIP Code and that the CIP Code received upon approval has been entered in the **Custom/Cross-Cluster CIP Code** field on the CATE Page.
- ❖ Ensure that the **Concentrator** field is correctly coded.
- ❖ Ensure that the **Completer** field is correctly coded.
- ❖ Ensure that the **Diploma Earned** field has been completed for all twelfth-grade students on the Student Supplemental Page.
- ❖ Ensure that the correct placement code has been entered in the **CATE Placement** field for each prior-year completer when doing student placement follow-up.
- ❖ Ensure that the seven-digit school identification number (SIDN) is correctly entered in the **Remote** field to identify location of the CATE program (if applicable).
- ❖ Ensure that all sections of each CATE course taught at a location other than the student's home high school have the first four digits of SIDN entered in the **District Where Taught** and the last three digits of the SIDN entered in the **School Where Taught** field. Accurate SIDN numbers will allow the other location to be identified as teaching the particular course(s). Also, make sure each CATE course has been assigned an approved course code from the listing in Appendix C.
- ❖ **GED** – Districts have an opportunity to submit by September 1 a listing of high school-aged students who have completed the requirements to receive a GED credential.

The district technology contact responsible for submitting PowerSchool data to the SCDE plays an important role in the data-collection process. The following are basic instructions with regard to the collection and reporting of CATE data:

- A. Verify final grades before running the SWEET query to submit data to the SCDE.
- B. Perform a data record check while you are submitting the data to the SCDE through SWEET query to ensure that your datasets are complete. If "0" records are transmitted, the SCDE has received no data.
- C. Use only **uppercase** letters for academic and unit tags. Though the PowerSchool system is not case sensitive, other systems utilized by SCDE offices to analyze the data received *are* case sensitive. **Your failure to use uppercase letters for academic and unit tags may result in inaccurate data.**
- D. Submit your CATE data on or before the deadlines:

Placement Follow-up Report April 15, 2016

End-of-the-Year Report Fourth Quarterly Data Collection (QDC4)

Please be reminded that the queries for submitting data to the SCDE will not be available after these dates.

PowerSchool Searches

The following searches have been created by the Office of Research and Data Analysis, PowerSchool Administration staff to assist you in verifying the accuracy of your data using the Quick Export function: **Start Page > Special Functions > Importing & Exporting > Quick Export.**

You may copy/paste the following data export layouts to verify PS CATE data or you may select individual fields via the "Fields" link to list the data you wish to export. Please remember to use **ONLY** approved course codes and CIP codes.

PowerSchool Export Layouts to Aid in the Validation of CATE Data

Start Page > Special Functions > Importing & Exporting > Quick Export

Quick Export

Export the 25 selected students

SchoolID
Last_Name
First_Name
Middle_Name
Grade_Level
SC_CATE_CIPcode
SC_CATE_ConcetrInd

Field Delimiter: Tab

Record Delimiter: CR

"Surround Fields" Column titles on 1st row

Export DCID

Fields

Submit

To work with subsets of the Student database, please use selection criteria on the student start page.

Start Page

Students | Staff | Parents

SC_CATE_CompleterInd=Y

Advanced View Field List [?]

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

PK4 K 1 2 3 4 5 6 7 8 9 10 11 12 M F All Stored Searches Stored Selections

Current Student Selection (25)

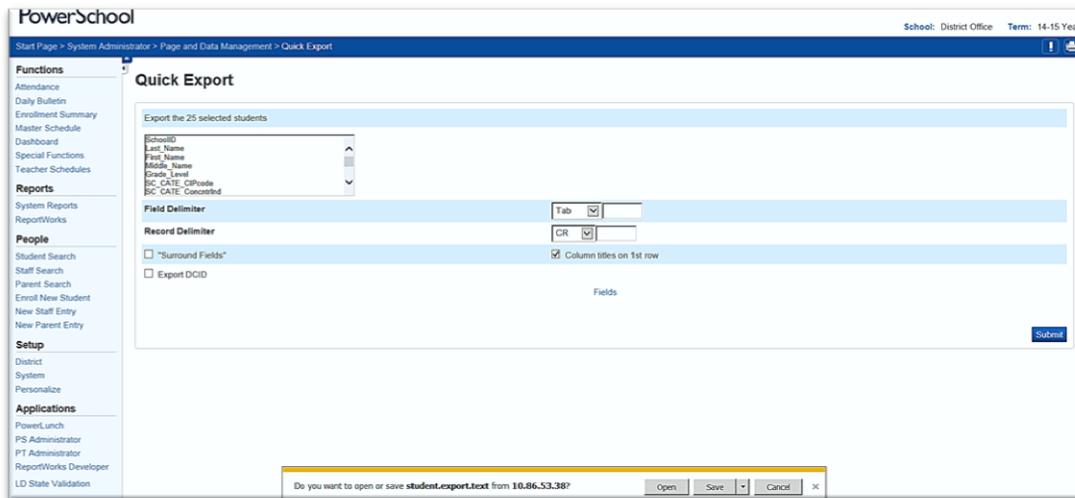
Student Grade Level School

The resulting data file may be saved, copied/pasted into or opened by Microsoft Excel for better viewing and sorting.

1. CIP Code Export Layout

SchoolID
 Last_Name
 First_Name
 Middle_Name
 Grade_Level
 SC_CATE_CIPcode
 SC_CATE_ConcptrInd
 SC_CATE_CompleterInd
 SC_CATE_YrCompleted
 SC_CATE_RemoteSchCode
 SC_DiplomaEarnCode

Save the exported file "student.export.text" as "all files" and use the Excel wizard to set up the column headings, etc. in order to review/verify the records.



2. Graduation Export (Initial filter "grade_level=12")

SchoolID
 Last_Name
 First_Name
 Middle_Name
 Grade_Level
 SC_DiplomaEarnCode
 SC_Diploma_Type

3. Program Completers Export (Initial filter "SC_CATE_CompleterInd=Y")

SchoolID
 Last_Name
 First_Name
 Middle_Name
 Grade_Level
 SC_CATE_CIPcode
 SC_CATE_CompleterInd
 SC_CATE_YrCompleted
 SC_CATE_RemoteSchCode
 SC_Diploma_Type

4. CATE Placement Export

(Initial filter "Grade_Level=12"; "SC_CATE_CompleterInd=Y")

SchoolID
Last_Name
First_Name
Middle_Name
Grade_Level
SC_CATE_CIPcode
SC_CATE_CompleterInd
SC_CATE_YrCompleted
SC_CATE_RemoteSchCode
SC_DiplomaEarnCode
SC_Diploma_Type
SC_CATE_PlaceLevelCode

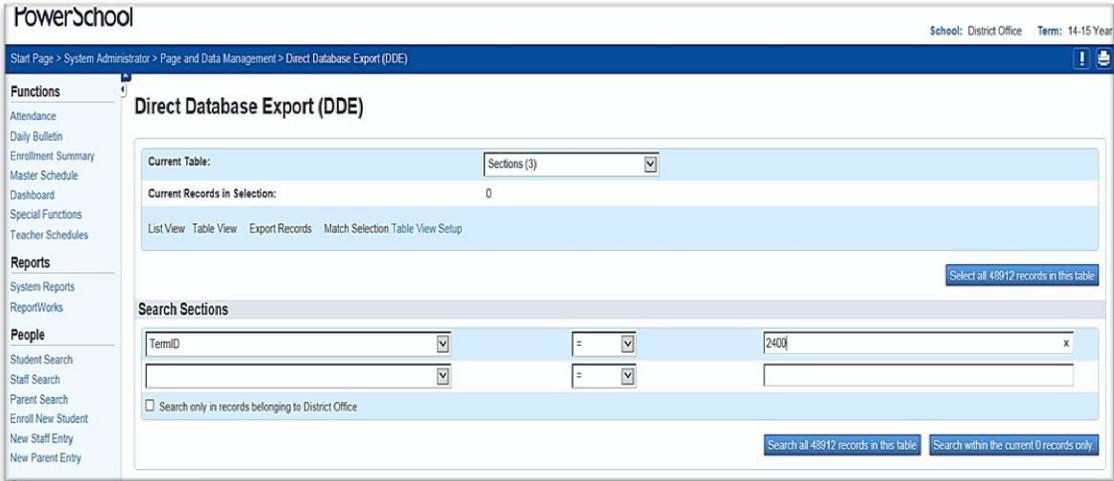
5. Special Populations Export

SchoolID
Last_Name
First_Name
Middle_Name
Grade_Level
SC_CATE_CIPcode
SC_CATE_SingleParentInd
SC_CATE_DisplHomeMakerInd
SC_Engl_Prof
SC_Migrant
LunchStatus

PowerSchool DDE Tool

The DDE tool can be used to export data from multiple tables.

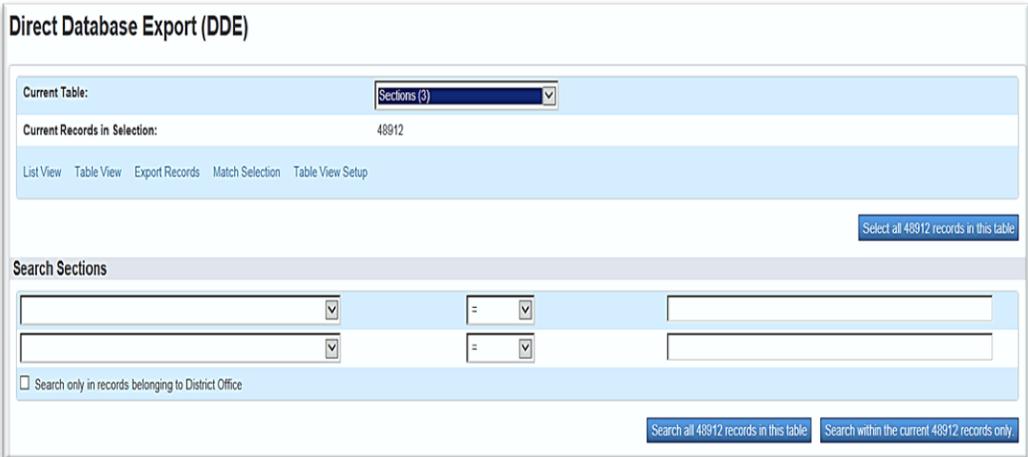
CATE Teacher/Course List Export



1. Begin with the SECTIONS table [03]. The initial "search sections" criteria is: TermID >=XXXX (designated numeric 4-digit TermID)

TermID	Year Designation
1800	2008-2009
1900	2009-2010
2000	2010-2011
2100	2011-2012
2200	2012-2013
2300	2013-2014
2400	2014-2015
2500	2015-2016

In this example, we received a count of 48,912 current records.



2. Secondary "search sections" criteria are, for example,:
 - a. Course_Number >= 49990000
 - b. Course_Number <= 6999ZZZZ

3. Search within the current # records only

Current Table: **Sections (3)**

Current Records in Selection: 9961 [List View](#) [Table View](#)

[Export Records](#) [Match Selection](#) [Table View Setup](#)

Select all 19702 records in this table

Search Sections

Course_Number >= 49990000

Course_Number <= 6999ZZZZ

ABC High School

Search only in records belonging to ABC High School

Search all 19702 records in this table

Search within the current 9961 records only

4. Export the selected records with the following layout
 - a. SchoolID
 - b. Teacher
 - c. [05]LastFirst
 - d. Course_Number
 - e. [02]Course_Name

Export the 151 selected records (Table: Sections)

SchoolID
Teacher
[05]LastFirst
Course_Number
[02]Course_Name

Field Delimiter: Tab

Record Delimiter: CR

"Surround fields" Column titles on 1st row

Optional: Sort Field Name Direction

Back to Direct Database Export Main Screen

Submit

Course/Teacher Location Export

Begin with the SECTIONS table [03]. The initial "search sections" criteria is: TermID >= XXXX (designated numeric 4-digit TermID).

TermID	Year Designation
1800	2008-2009
1900	2009-2010
2000	2010-2011
2100	2011-2012
2200	2012-2013
2300	2013-2014
2400	2014-2015
2500	2015-2016

Search Sections

TermID	>=	XXXX
	=	

Export the 1327 selected records (Table: Sections)

Course_Number
[02]Course_Name
Teacher
[05]LastFirst
WhereTaught

Field Delimiter: Tab

Record Delimiter: CR

"Surround fields" Column titles on 1st row

Optional: Sort Field Name Direction

	>
	>
	>

[Back to Direct Database Export Main Screen](#)

Submit

Multiple Courses Export

Utilizing DDE, begin with the STORED GRADES table [31] for each of the following six (6) Course_Number criteria.

1. Search StoredGrades Criteria:

TermID >=XXXX
Course_Number=5100@

Export Records layout:

[01]SchoolID
[01]Last_Name
[01]First_Name
[01]Middle_Name
[01]Grade_Level
[31]Course_Number
[31]Course_Name
[31]EarnedCrHours
[31]Teacher_Name

TermID	Year Designation
1800	2008-2009
1900	2009-2010
2000	2010-2011
2100	2011-2012
2200	2012-2013
2300	2013-2014
2400	2014-2015
2500	2015-2016

2. Search StoredGrades Criteria:

TermID >= XXXX
Course_Number=5030@

Export Records layout:

[01]SchoolID
[01]Last_Name
[01]First_Name
[01]Middle_Name
[01]Grade_Level
[31]Course_Number
[31]Course_Name
[31]EarnedCrHours
[31]Teacher_Name

3. Search StoredGrades Criteria:

TermID >= XXXX
Course_Number=5122@

Export Records layout:

[01]SchoolID
[01]Last_Name
[01]First_Name
[01]Middle_Name
[01]Grade_Level
[31]Course_Number
[31]Course_Name
[31]EarnedCrHours
[31]Teacher_Name

4. **Search StoredGrades Criteria:**

TermID >= XXXX
Course_Number=5400@

Export Records layout:

[01]SchoolID
 [01]Last_Name
 [01]First_Name
 [01]Middle_Name
 [01]Grade_Level
 [31]Course_Number
 [31]Course_Name
 [31]EarnedCrHours
 [31]Teacher_Name

TermID	Year Designation
1800	2008-2009
1900	2009-2010
2000	2010-2011
2100	2011-2012
2200	2012-2013
2300	2013-2014
2400	2014-2015
2500	2015-2016

5. **Search StoredGrades Criteria:**

TermID >= XXXX
Course_Number=5031@

Export Records layout:

[01]SchoolID
 [01]Last_Name
 [01]First_Name
 [01]Middle_Name
 [01]Grade_Level
 [31]Course_Number
 [31]Course_Name
 [31]EarnedCrHours
 [[31]Teacher_Name

6. **Search StoredGrades Criteria:**

TermID >= XXXX
Course_Number=5033@

Export Records layout

[01]SchoolID
 [01]Last_Name
 [01]First_Name
 [01]Middle_Name
 [01]Grade_Level
 [31]Course_Number
 [31]Course_Name
 [31]EarnedCrHours
 [31]Teacher_Name

OCTE Contact Information

Area (Administration Team)	Contact
Administration Team Lead Report Card Ratings and Measures	N. Maria Swygert 803-734-8456 nmswyger@ed.sc.gov
Data Collection and Reporting	Shawn Larrymore 803-734-8450 smlarrym@ed.sc.gov Vacant
Perkins Accountability Indicators Local Plans	Merri Long 803-734-8451 mlong@ed.sc.gov
Monitoring	Melissa Benton 803-734-8287 mbenton@ed.sc.gov Abby Lawson 803-734-3825 alawson@ed.sc.gov
Progress Report	Pat Flora 803-734-8455 pflora@ed.sc.gov

Area (Program Staff*)	Contact
CATE Curriculum Standards Technical Skill Assessments	Amy McCaskill 803-734-4901 amccaski@ed.sc.gov
Career Guidance Work-Based Learning (Non-Credit Bearing)	Kama Staton 803-734-8415 kstaton@ed.sc.gov
Special Populations Nontraditional Training and Employment	Vacant

*CATE program contact information can be found on page 52.

Main Phone Number: 803-734-8410

Fax Number: 803-734-3525

Appendix A

Perkins Accountability Indicators for CATE

Key Terms

The federal Perkins Act requires each state to establish accountability indicators. The following are explanations of the terms used in South Carolina's state plan to define the populations measured and descriptions of the accountability indicators:

- ❖ **Participant:** A participant is a secondary student enrolled in a state-approved CATE course.
- ❖ **Concentrator:** A concentrator is a secondary student with an assigned CIP (Classification of Instructional Programs) code who has earned 3 Carnegie units of credit in a state-recognized CATE program. CIP codes designate specific CATE programs and are used for federal reporting and assessing the Perkins accountability indicators for CATE programs. A state-recognized CATE program must be comprised of an approved sequence of career and technology education courses leading to a career goal and must include a minimum of 4 Carnegie units of credit.
- ❖ **Completer:** A completer is a concentrator who has earned **all** of the required units in a state-recognized CATE program identified by the assigned CIP code.

Measurement Definitions

1S1 ACADEMIC ATTAINMENT – READING/LANGUAGE ARTS

▶ **Formula**

Numerator = total number of 12th grade concentrators who scored proficient or advanced on the ELA HSAP administered 2 years prior to the reporting year as required for NCLB

Denominator = total number of 12th grade concentrators who took the ELA HSAP administered 2 years prior to the reporting year as required for NCLB

1S2 ACADEMIC ATTAINMENT – MATHEMATICS

▶ **Formula**

Numerator = total number of 12th grade concentrators who scored proficient or advanced on the Math HSAP administered 2 years prior to the reporting year as required for NCLB

Denominator = total number of 12th grade concentrators who took the Math HSAP administered 2 years prior to the reporting year as required for NCLB

2S1 TECHNICAL SKILL ATTAINMENT**▶ Formula**

Numerator = total number of concentrators who completed a CATE program and who passed technical skill assessments that are aligned with industry-recognized standards, if available and appropriate, during the reporting year plus concentrators who completed and achieved a final GPA of at least 2.0 averaged over the year for all the CATE courses taken during the year for those program areas that do not have other valid and reliable assessments

Denominator = total number of concentrators who completed a CATE program

3S1 SCHOOL COMPLETION**▶ Formula**

Numerator = total number of 12th grade concentrators who completed a CATE program and who attained a South Carolina high school diploma, or a GED

Denominator = total number of 12th grade concentrators who completed a CATE program

4S1 STUDENT GRADUATION RATES**▶ Formula**

Numerator = total number of CATE concentrators who, in the reporting year, were included as graduated in the State's computation of its graduation rate as defined in SC's Consolidated Accountability Plan

Denominator = total number of CATE concentrators who, in the reporting year, were included in the State's computation of its graduation rate as defined in SC's Consolidated Accountability Plan

5S1 PLACEMENT**▶ Formula**

Numerator = total number of concentrators who completed a CATE program and who are placed in postsecondary education, military service, or employment, averaged over a three-year period

Denominator = total number of concentrators who completed a CATE program and are available for placement, averaged over a three-year period

6S1 NONTRADITIONAL PARTICIPATION

▶ Formula

Numerator = total number of concentrators of the underrepresented gender enrolled in CATE programs identified as leading to nontraditional training and employment

Denominator = total number of concentrators enrolled in CATE programs identified as leading to nontraditional training and employment

6S2 NONTRADITIONAL COMPLETION

▶ Formula

Numerator = total number of 12th grade concentrators of the underrepresented gender who completed CATE programs identified as leading to nontraditional training and employment

Denominator = total number of 12th grade concentrators of the underrepresented gender enrolled in CATE programs identified as leading to nontraditional training and employment

Appendix B

CATE Report Card Measures

The Education Oversight Committee has established three measures for career centers on the career center report card and two indicators for the high schools on the high school report card.

REMINDER: Report card data looks at all students enrolled in CATE courses.

Measures for Career Centers

Technical Skill Attainment: Percentage of CATE students passing technical skill assessments that are aligned with industry-recognized standards, plus students achieving an average of at least 2.0 on final grades for the year for all CATE courses they took at the career center during the year.

► Formula

Numerator = total number of CATE students who passed technical skill assessments that are aligned with industry-recognized standards, if available and appropriate, during the reporting year plus CATE students who achieved a final GPA of at least 2.0 averaged over the year for all CATE courses taken at the career center during the year for those program areas that do not have other valid and reliable assessments.

Denominator = total number of students taking CATE courses at the career center during the year

How to Make Your Data More Accurate

- A. Ensure that all sections of each particular CATE course taught at the career center have the first four digits of career center ID entered in the **District Where Taught** and the last three digits of the career center ID entered in **School Where Taught** field. Accurate SIDN numbers will allow the career center to be identified as teaching the particular course(s). The seven-digit SIDN (school identification number) is sometimes referred to as the BEDS code.

Graduation: Percentage of twelfth-grade CATE students receiving a South Carolina high school diploma

► Formula

Numerator = total number of twelfth-grade CATE students at the career center receiving a South Carolina high school diploma

Denominator = total number of twelfth-grade CATE students at the career center

How to Make Your Data More Accurate

- A. Ensure that all sections of each particular CATE course taught at the career center have the first four digits of career center ID entered in the **District Where Taught** and the last three digits of the career center ID entered in **School Where Taught** field. Accurate SIDN numbers will allow the career center to be identified as teaching the particular course(s). The seven-digit SIDN (school identification number) is sometimes referred to as the BEDS code.
- B. Ensure that the Diploma field has been completed for all twelfth-grade students.

Placement: Percentage of available CATE completers placed in postsecondary education, military service, or employment, averaged over a three-year period

▶ **Formula**

Numerator = total number of CATE completers who are placed in postsecondary education, military service, or employment, averaged over a three-year period

Denominator = total number of CATE completers who are available for placement, averaged over a three-year period

How to Make Your Data More Accurate

- A. Ensure that the correct placement code has been entered in the **CATE Placement** field for each prior-year completer.
- B. Ensure that the correct data have been entered in the **Completer** field and the **Diploma Earned** field.

CATE Indicators for High Schools

Technical Skill Attainment: Percentage of CATE students passing technical skill assessments that are aligned with industry-recognized standards, plus students achieving an average of at least 2.0 on final grades for the year for all CATE courses they took at the career center during the year.

▶ **Formula**

Numerator = total number of CATE students who passed technical skill assessments that are aligned with industry-recognized standards, if available and appropriate, during the reporting year plus CATE students who achieved a final GPA of at least 2.0 averaged over the year for all CATE courses taken at the high school during the year for those program areas that do not have other valid and reliable assessments.

Denominator = total number of students taking CATE courses at the high school during the year

Placement: Percentage of available CATE completers placed in postsecondary education, military service, or employment, averaged over a three-year period

▶ **Formula**

Numerator = total number of CATE completers who are placed in postsecondary education, military service, or employment averaged over a three-year period

Denominator = total number of CATE completers who are available for placement, averaged over a three-year period

How to Make Your Data More Accurate

- A. Ensure that the correct placement code has been entered in the **CATE Placement** field for each prior-year completer.
- B. Ensure that the correct data have been entered in the **Completer** field and the **Diploma Earned** field.

General Indicators: Career Centers and High Schools

Participation in CATE Cocurricular Organizations: Percentage of students attending career centers or high schools who participate in career and technology cocurricular organizations

▶ Formula for Career Centers

Numerator = total number of students at the career center who participate in career and technology cocurricular organizations (SkillsUSA, FBLA, FCCLA, FEA, DECA, HOSA, TSA, BPA and FFA)

Denominator = total number of students enrolled at the career center

▶ Formula for High Schools

Numerator = total number of students at the high school who participate in career and technology cocurricular organizations (SkillsUSA, FBLA, FCCLA, FEA, DECA, HOSA, TSA, BPA and FFA)

Denominator = total number of students enrolled at the high school

Work-Based Experiences: Percentage of students in grades nine through twelve who are involved with in-depth learning experiences (e.g., youth apprenticeships, registered apprenticeships, cooperative education, mentoring, shadowing, internships, and service learning) at a work site that allows students to acquire work-related knowledge and skills

▶ Formula for Career Centers

Numerator = total number of students in grades nine through twelve participating in work-based experiences with outside agencies or businesses

Denominator = total number of students in grades nine through twelve enrolled at the career center

▶ Formula for High Schools

Numerator = total number of students in grades nine through twelve who are participating in work-based experiences with outside agencies or businesses

Denominator = total number of students in grades nine through twelve

Note: Both numerators above are an unduplicated student count. If the student participates in multiple experiences he/she is only counted once.

Appendix C

CATE Clusters, Programs, and Courses

Career Clusters

Career Clusters are groupings of occupations and broad industries based on commonalities that provide a vital framework for organizing and delivering quality CATE programs through learning and comprehensive programs of study. They also guide in developing programs of study bridging secondary and postsecondary curriculum and for creating individual student plans of study for a complete range of career options. Career clusters link what students learn in high school with the knowledge and skills they need for success in college and careers. This connection to future goals motivates students to work harder and enroll in more rigorous courses.

As such, it helps students discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college and career. In total, there are 16 Career Clusters representing more than 79 Career Pathways to help students navigate their way to greater success in college and career. The sixteen clusters represent all career possibilities:

- ❖ Agriculture, Food and Natural Resources
- ❖ Architecture and Construction
- ❖ Arts, Audio-Video Technology and Communications
- ❖ Business Management and Administration
- ❖ Education and Training
- ❖ Finance
- ❖ Government and Public Administration*
- ❖ Health Science
- ❖ Hospitality and Tourism
- ❖ Human Services/Family and Consumer Sciences
- ❖ Information Technology
- ❖ Law, Public Safety, Corrections and Security
- ❖ Manufacturing
- ❖ Marketing
- ❖ Science, Technology, Engineering and Mathematics
- ❖ Transportation, Distribution and Logistics

All descriptions of cluster content in this section are taken with minor editorial emendations from the States' Career Clusters Web page. Please refer to www.careertech.org for additional information.

*For school year 2015-16, no CATE courses are assigned to this career cluster.

CATE Code Descriptions

- ❖ **Course ID:** The eight characters used to identify each instructional activity.

The first four characters are the digits that make up the course code. The fifth and sixth characters are digits that are district defined. One of three different characters will occupy the seventh position: either the alpha character that represents the academic tag for credit-bearing courses, or the numeric 0, or the digit that represents the special education activity instructional approach. One of three different characters will occupy the eighth position: either the alpha character that represents the unit tag for credit-bearing courses or the numeric 0, or the digit that represents a specific instruction area. Use only **uppercase** characters for academic and unit tags.

- ❖ **Course Code:** The first four digits of the course ID.

Valid CATE courses and codes can be found beginning on page 53 of this section. Codes for the state-approved courses are used for the Perkins accountability indicators and report card measures and indicators. Perkins funds may be used to improve state-approved CATE courses with the exception of work-based credit courses. Courses with "LBA" (local board approved) in the title are not valid CATE course codes for state and federal accountability and funding purposes.

- ❖ **Innovative Courses:** Unique courses representing emerging areas of study that fall outside of the Office of Career and Technology Education's course offerings. For an innovative course, State Board Approval (SBA) is required before the course can be offered using a CATE course code. An innovative application must be completed and submitted for OCTE approval by **January 31st** of each year. Once the innovative application has been approved by OCTE staff, notification will be sent to the school district with the course code that is to be assigned in the student information system.

The CATE Innovative Application and instructions can be found at:
<http://ed.sc.gov/agency/programs-services/152/>

- ❖ **Work-Based Learning Courses:** Work-Based Learning Courses (credit bearing) are structured, stand-alone courses that are taken in addition to other CATE courses that make up a CATE CIP-coded program. Each Work-Based Learning Course (credit bearing) has an assigned CATE course code, and guidelines must be followed in order to award the Carnegie unit of credit upon successful completion of the course. Only one unit of work-based learning credit may be awarded toward CATE completer status. Reference the Work-Based Learning document located at: <http://ed.sc.gov/agency/ac/Career-and-Technology-Education/Program-Support/>.
- ❖ **CATE Program:** A state-recognized CATE program must be composed of an approved sequence of career and technology education courses leading to a career goal and must include a minimum of 4 Carnegie units of credit. If the units of credit required to complete a specified CATE program *exceed* the minimum of 4 units, students must earn all of the required units of credit to be considered CATE program completers
- ❖ **CIP Code:** The six-digit CIP (Classification of Instructional Programs) codes designate the specific CATE programs and are used for federal reporting and assessing the federal Perkins indicators. Every student identified as a CATE concentrator must be assigned a CIP code approved by the OCTE. **CIP codes are *not* the same as course codes.**
- ❖ **Custom/Cross-Cluster CIP Code:** The intent for requesting Custom/Cross-Cluster Program Approval is for a program which is designed to specifically match a student's career goals if those goals do not fall within any of the current CATE approved programs. Such customizing may even involve allowing a student to select related courses from

different CATE cluster areas. Several criteria to remember when making a request for a CATE Custom/Cross-Cluster CIP code:

- Local businesses, advisory committees, and school district/career center personnel should be consulted when a customized program for a student is being determined.
- Each course in a customized program must include contextual learning.
- Student has earned or will earn the third unit of the designed program before submitting request.

Custom Program – comprised of CATE courses from programs within the same cluster

Cross-Cluster Program – comprised of CATE courses across two or more cluster areas.

NOTE: For school year 2015-16, prior approval from CATE staff is needed in order to use a Custom or Cross-Cluster CIP code. Deadline for request(s) is **March 2, 2016**. The approval form and instructions for completing and submitting the form are located at: <http://ed.sc.gov/agency/programs-services/152/>.

The following pages within this appendix are listings of the required and/or approved CATE courses for each state-recognized CATE program by cluster. Questions related to program and course content or the assignment of CIP codes may be directed to the following individuals:

Career Cluster	Contact
<ul style="list-style-type: none"> ▶ Agriculture, Food and Natural Resources 	<p>William E. Keels 803-896-8873 wkeels@clermson.edu</p>
<ul style="list-style-type: none"> ▶ Architecture and Construction ▶ Law, Public Safety, Corrections and Security ▶ Manufacturing 	<p>Steven Watterson 803-734-8267 swatterson@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Arts, Audio-Video Technology and Communications ▶ Science, Technology, Engineering and Mathematics ▶ Transportation, Distribution and Logistics 	<p>B. T. Martin 803-734-3398 btmartin@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Arts, Audio-Video Technology and Communications ▶ Education and Training ▶ Hospitality and Tourism ▶ Human Services/Family and Consumer Sciences ▶ Science, Technology, Engineering and Mathematics 	<p>Eleanor Glover 803-734-3826 eglover@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Business Management and Administration ▶ Finance ▶ Information Technology ▶ Marketing 	<p>Tony Dillon 803-734-7168 tdillon@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ Health Science 	<p>Angel Clark 803-734-0372 aclark@ed.sc.gov</p>
<ul style="list-style-type: none"> ▶ CATE Program Team Lead 	<p>Marty Martin 803-734-8564 mamartin@ed.sc.gov</p>

Agriculture, Food, and Natural Resources

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Course Code	Course Title
5600	Agribusiness and Marketing
5691	Agricultural and Biosystems Science
5614	Agricultural Crop Production and Management
5660	Agricultural Mechanics and Technology
5604	Agricultural Mechanics and Technology for the Workplace 1
5605	Agricultural Mechanics and Technology for the Workplace 2
5610	Agricultural Power Mechanics
5624	Agricultural Science and Technology
5620	Agricultural Science and Technology for the Workplace
5611	Agricultural Structural Mechanics
5603	Animal Science
5608	Animal Science for the Workplace 1
5609	Animal Science for the Workplace 2
5663	Aquaculture
5692	Biosystems Mechanics and Engineering
5695	Biosystems Technology 3
5696	Biosystems Technology 4
5693	Biosystems Technology Career Development 1
5694	Biosystems Technology Career Development 2
5646	Cattle Production
5626	Environmental and Natural Resources Management
5628	Environmental and Natural Resources Management for the Workplace 1
5629	Environmental and Natural Resources Management for the Workplace 2
5679	Equine Science
5621	Equipment Operation and Maintenance
5647	Farm Animal Production
5634	Floriculture
5657	Food Processing
5642	Forestry
5667	Golf Course Technology
5652	Horticulture for the Workplace 1
5653	Horticulture for the Workplace 2
5650	Introduction to Horticulture
5613	Introduction to Veterinary Science
5670	Landscape Technology
5672	Nursery, Greenhouse, and Garden Center Technology
5602	Outdoor Recreation
5612	Small Animal Care
5627	Soil and Water Conservation
5630	Soils and Soiless Research
5655	Sports Turf Management
5654	Turf and Lawn Management
5674	Wildlife Management
5690	Agriculture, Food and Natural Resources, work-based credit
5699	Agriculture, Food and Natural Resources, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
010205	Agricultural Mechanics and Technology
140301	Biosystems Engineering Technology
030101	Environmental and Natural Resources Management
010601	Horticulture
011101	Plant and Animal Systems

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Agricultural Mechanics and Technology 010205

Agribusiness and Marketing
Agricultural and Biosystems Science
Agricultural Mechanics and Technology
Agricultural Mechanics and Technology for the Workplace 1
Agricultural Mechanics and Technology for the Workplace 2
Agricultural Power Mechanics
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Agricultural Structural Mechanics
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance
Soil and Water Conservation
Agriculture, Food and Natural Resources, work-based credit

Biosystems Engineering Technology 140301

Agricultural and Biosystems Science
Biosystems Technology 3
Biosystems Technology 4
Biosystems Technology Career Development 1
Biosystems Technology Career Development 2
Biosystems Mechanics and Engineering
Agriculture, Food and Natural Resources, work-based credit

Environmental and Natural Resources Management 030101

Agricultural and Biosystems Science
Agricultural Mechanics and Technology
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Aquaculture
Biosystems Mechanics and Engineering
Environmental and Natural Resources Management
Environmental and Natural Resources Management for the Workplace 1
Environmental and Natural Resources Management for the Workplace 2
Equipment Operation and Maintenance
Forestry
Outdoor Recreation
Soil and Water Conservation
Soils and Soiless Research
Wildlife Management
Agriculture, Food and Natural Resources, work-based credit

Horticulture..... 010601

Agribusiness and Marketing
Agricultural and Biosystems Science
Agricultural Mechanics and Technology
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance
Floriculture
Golf Course Technology
Horticulture for the Workplace 1
Horticulture for the Workplace 2
Introduction to Horticulture
Landscape Technology
Nursery, Greenhouse, and Garden Center Technology
Soils and Soilless Research
Sports Turf Management
Turf and Lawn Management
Agriculture, Food and Natural Resources, work-based credit

Plant and Animal Systems..... 011101

Agribusiness and Marketing
Agricultural and Biosystems Science
Agricultural Crop Production and Management
Agricultural Mechanics and Technology
Agricultural Science and Technology
Agricultural Science and Technology for the Workplace
Animal Science
Animal Science for the Workplace 1
Animal Science for the Workplace 2
Aquaculture
Biosystems Mechanics and Engineering
Cattle Production
Equine Science
Equipment Operation and Maintenance
Farm Animal Production
Food Processing
Introduction to Veterinary Science
Small Animal Care
Soil and Water Conservation
Soils and Soilless Research
Agriculture, Food and Natural Resources, work-based credit

Architecture and Construction

Careers in designing, planning, managing, building, and maintaining the built environment.

Course Code	Course Title
6060	Building Construction Cluster 1
6061	Building Construction Cluster 2
6062	Building Construction Cluster 3
6063	Building Construction Cluster 4
6080	Cabinetmaking 1
6081	Cabinetmaking 2
6082	Cabinetmaking 3
6083	Cabinetmaking 4
6091	Carpentry 1
6092	Carpentry 2
6093	Carpentry 3
6094	Carpentry 4
6287	Electricity 1
6288	Electricity 2
6289	Electricity 3
6290	Electricity 4
5330	Home Systems Technology
6003	HVAC Technology 1
6004	HVAC Technology 2
6005	HVAC Technology 3
6006	HVAC Technology 4
6001	Introduction to Construction
6250	Masonry 1
6251	Masonry 2
6252	Masonry 3
6253	Masonry 4
6280	Plumbing 1
6281	Plumbing 2
6282	Plumbing 3
6283	Plumbing 4
6690	Architecture and Construction, work-based credit
6299	Architecture and Construction, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
460000	Building Construction Cluster
480703	Cabinetmaking
460201	Carpentry
460301	Electricity
470201	HVAC Technology
460101	Masonry
460503	Plumbing

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Building Construction Cluster..... 460000

Introduction to Construction
 Building Construction Cluster 1
 Building Construction Cluster 2
 Building Construction Cluster 3
 Building Construction Cluster 4
 Architecture and Construction, work-based credit

Cabinetmaking 480703

Introduction to Construction
Cabinetmaking 1
Cabinetmaking 2
Cabinetmaking 3
Cabinetmaking 4
Architecture and Construction, work-based credit

Carpentry 460201

Introduction to Construction
Carpentry 1
Carpentry 2
Carpentry 3
Carpentry 4
Architecture and Construction, work-based credit

Electricity 460301

Introduction to Construction
Electricity 1
Electricity 2
Electricity 3
Electricity 4
Architecture and Construction, work-based credit

HVAC Technology 470201

Introduction to Construction
HVAC Technology 1
HVAC Technology 2
HVAC Technology 3
HVAC Technology 4
Architecture and Construction, work-based credit

Masonry 460101

Introduction to Construction
Masonry 1
Masonry 2
Masonry 3
Masonry 4
Architecture and Construction, work-based credit

Plumbing 460503

Introduction to Construction
Plumbing 1
Plumbing 2
Plumbing 3
Plumbing 4
Architecture and Construction, work-based credit

Arts, Audio-Video Technology, and Communications

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Course Code	Course Title
6170	Architectural Design 1
6171	Architectural Design 2
6120	Digital Art and Design 1
6121	Digital Art and Design 2
6122	Digital Art and Design 3
6123	Digital Art and Design 4
5710	Fashion Design and Apparel Construction 1
5711	Fashion Design and Apparel Construction 2
6200	Graphic Communications 1
6201	Graphic Communications 2
6202	Graphic Communications 3
6203	Graphic Communications 4
5455	Interior Design 1
5456	Interior Design 2
5205	Introduction to Graphic Communications
6172	Mechanical Design 1
6173	Mechanical Design 2
6124	Media Technology 1
6125	Media Technology 2
5290	Arts, Audio-Video Technology and Communications, work-based credit
5299	Arts, Audio-Video Technology and Communications, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
151301	Architecture/Mechanical Design
500402	Digital Art and Design
500407	Fashion Design and Apparel Construction
100301	Graphic Communications
500408	Interior Design
100299	Media Technology

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Architecture/Mechanical Design 151301

- Architectural Design 1
- Architectural Design 2
- Mechanical Design 1
- Mechanical Design 2
- Arts, Audio-Video Technology and Communications, work-based credit

Digital Art and Design 500402

- Digital Art and Design 1
- Digital Art and Design 2
- Digital Art and Design 3
- Digital Art and Design 4
- Arts, Audio-Video Technology and Communications, work-based credit

Fashion Design and Apparel Construction 500407

Required Courses:

Fashion Design and Apparel Construction 1
 Fashion Design and Apparel Construction 2

Additional approved courses if needed to meet state-recognized program requirements:

Entrepreneurship	Financial Fitness 2
Family and Consumer Sciences 1	Integrated Business Applications 1
Family and Consumer Sciences 2	Marketing Management
Fashion, Fabric, and Design 1	Mechanical Design 1
Fashion, Fabric, and Design 2	Web Page Design and Development 1
Fashion Merchandising	Arts, Audio-Video Technology and Communications, work-based credit
Financial Fitness 1	

Graphic Communications..... 100301

Graphic Communications 1
 Graphic Communications 2
 Graphic Communications 3
 Graphic Communications 4
 Arts, Audio-Video Technology and Communications, work-based credit

Interior Design..... 500408

Required Courses:

Interior Design 1
 Interior Design 2

Additional approved courses if needed to meet state-recognized program requirements:

Entrepreneurship	Integrated Business Applications 1
Family and Consumer Sciences 1	Marketing Management
Family and Consumer Sciences 2	Mechanical Design 1
Housing and Interiors 1	Web Page Design and Development 1
Housing and Interiors 2	Arts, Audio-Video Technology and Communications, work-based credit

Media Technology 100299

Media Technology 1
 Media Technology 2
 Arts, Audio-Video Technology and Communications, work-based credit

Business Management and Administration

Business Management and Administration careers encompass planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.

Course Code	Course Title
5122	Administrative Support Technology
5044	Business Law
5092	Business Principles and Management
5008	Computer Applications (Refer to Page 86 for More Info)
5176	Digital Desktop Publishing
5180	Digital Input Technologies
5181	Digital Literacy (Refer to Page 86 for More Info)
5030	Digital Multimedia
5400	Entrepreneurship
5041	Essential Communications
5090	Fundamentals of Business, Marketing and Finance
5480	Fundamentals of Project Management
5007	Google Applications
5011	Google Basics (Refer to Page 86 for More Info)
5093	Human Resource Management
5340	Image Editing 1
5341	Image Editing 2
5020	Integrated Business Applications 1
5021	Integrated Business Applications 2
5032	International Business and Marketing
5100	Keyboarding (Refer to Page 86 for More Info)
5482	Logistics and Business Processes
5010	Multimedia Basics (Refer to Page 86 for More Info)
5131	Personal Finance
5178	Professional and Leadership Development
5034	Social Media in Business
5150	Virtual Enterprise 1
5151	Virtual Enterprise 2
5152	Virtual Enterprise 3
5153	Virtual Enterprise 4
5490	Business Management and Administration, work-based credit
5499	Business Management and Administration, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
520401	Administrative Services
521206	Business Information Management
520201	General Management
521001	Human Resources Management
520204	Operations Management

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum of 4 units of credit*.

Administrative Services..... 520401

Required Courses:

Administrative Support Technology
Integrated Business Applications 1

Additional approved courses if needed to meet state-recognized program requirements:

Business Principles and Management	Image Editing 2
Digital Desktop Publishing	Information Technology Foundations
Digital Input Technologies	Integrated Business Applications 2
Entrepreneurship	Professional and Leadership Development
Essential Communications	Social Media in Business
Financial Math	Web Page Design and Development 1
Fundamentals of Business, Marketing, and Finance	Web Page Design and Development 2
Google Applications	Business Management and Administration, work-based credit
Image Editing 1	

Business Information Management..... 521206

Required Courses:

Digital Desktop Publishing
Image Editing 1

Additional approved courses if needed to meet state-recognized program requirements:

Advertising	Google Applications
Business Principles and Management	Image Editing 2
Digital Input Technologies	Information Technology Foundations
Digital Multimedia	Integrated Business Applications 1
Entrepreneurship	Integrated Business Applications 2
Essential Communications	IT Fundamentals
Exploring Computer Science	Professional and Leadership Development
Financial Math	Social Media in Business
Foundations of Animation	Web Page Design and Development 1
Fundamentals of Business, Marketing, and Finance	Web Page Design and Development 2
Fundamentals of Project Management	Business Management and Administration, work-based credit

General Management 520201

Required Courses:

Accounting 1
Entrepreneurship

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 2	Integrated Business Applications 2
Business Finance	International Business and Marketing
Business Law	Logistics and Business Processes
Business Principles and Management	Marketing
Essential Communications	Marketing Management
Financial Math	Professional and Leadership Development
Fundamentals of Business, Marketing and Finance	Social Media in Business
Fundamentals of Project Management	Virtual Enterprise 1
Global Business	Virtual Enterprise 2
Google Applications	Virtual Enterprise 3
Human Resource Management	Virtual Enterprise 4
Integrated Business Applications 1	Business Management and Administration, work-based credit

Human Resources Management 521001

Required Courses:

Business Law
Human Resource Management

Additional approved courses if needed to meet state-recognized program requirements:

Business Principles and Management	Google Applications
Digital Desktop Publishing	Integrated Business Applications 1
Entrepreneurship	Integrated Business Applications 2
Essential Communications	International Business and Marketing
Financial Math	Professional and Leadership Development
Fundamentals of Business, Marketing, and Finance	Business Management and Administration, work-based credit
Global Business	

Operations Management 520204

Required Courses:

Virtual Enterprise 1
 Virtual Enterprise 2

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1	Google Applications
Accounting 2	Integrated Business Applications 1
Business Law	Integrated Business Applications 2
Business Principles and Management	International Business and Marketing
Digital Input Technologies	Logistics and Business Processes
Entrepreneurship	Marketing
Essential Communications	Professional and Leadership Development
Financial Math	Social Media in Business
Fundamentals of Business, Marketing, and Finance	Virtual Enterprise 3
Fundamentals of Project Management	Virtual Enterprise 4
Global Business	Business Management and Administration, work-based credit

Education and Training

Planning, managing, and providing education and training services and related learning support services.

Course Code	Course Title
5800	Child Development 1
5801	Child Development 2
5700	Early Childhood Education 1
5701	Early Childhood Education 2
5702	Introduction to Early Childhood Education
5703	Introduction to Teaching 1
5704	Introduction to Teaching 2
5705	Teacher Cadet - CATE
6390	Education and Training, work-based credit
6399	Education and Training, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
131210	Early Childhood Education
130101	Introduction to Teaching

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Early Childhood Education 131210

Required Courses:

Early Childhood Education 1
Early Childhood Education 2

Additional approved courses if needed to meet state-recognized program requirements:

Child Development 1	Introduction to Early Childhood Education
Child Development 2	Introduction to Teaching 1
Entrepreneurship	Parenting Education 1
Family Life Education 1	Parenting Education 2
Family Life Education 2	Teacher Cadet - CATE
Foods and Nutrition 1	Web Page Design and Development 1
Foods and Nutrition 2	Education and Training, work-based credit
Integrated Business Applications 1	

Introduction to Teaching 130101

Required Courses:

Introduction to Teaching 1
Introduction to Teaching 2

Additional approved courses if needed to meet state-recognized program requirements:

Child Development 1	Integrated Business Applications 1
Child Development 2	Introduction to Early Childhood Education
Early Childhood Education 1	Parenting Education 1
Entrepreneurship	Parenting Education 2
Family Life Education 1	Teacher Cadet - CATE
Family Life Education 2	Web Page Design and Development 1
Human Development: Responsible Life Choices 1	Education and Training, work-based credit
Human Development: Responsible Life Choices 2	

Finance

Planning, managing, and providing education and training services and related learning support services.

Course Code	Course Title
5001	Accounting 1
5005	Accounting 2
5271	Banking Services
5273	Business Finance
5282	Financial Literacy (Refer to Page 86 for More Info)
5281	Financial Math
5275	Insurance
5277	Securities and Investments
6190	Finance, work-based credit
6899	Finance, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
520801	Academy of Finance
520301	Accounting
520803	Banking Services
520804	Business Finance
521701	Insurance
520807	Securities and Investments

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Academy of Finance 520801

Schools meeting the National Academy Foundation (NAF) membership requirements must follow the NAF curriculum (<http://www.naf.org>).

Accounting 520301

Required Courses:

Accounting 1
Accounting 2

Additional approved courses if needed to meet state-recognized program requirements:

Banking Services
Business Finance
Business Principles and Management
Entrepreneurship
Essential Communications
Financial Math
Fundamentals of Business, Marketing and Finance
Insurance
Integrated Business Applications 1
Integrated Business Applications 2
Personal Finance
Professional and Leadership Development
Securities and Investments
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Finance, work-based credit

Banking Services 520803**Required Courses:**

Banking Services
Business Finance

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1
Accounting 2
Business Law
Business Principles and Management
Entrepreneurship
Essential Communications
Financial Math
Fundamentals of Business, Marketing and Finance
Insurance
Integrated Business Applications 1
Integrated Business Applications 2
Personal Finance
Professional and Leadership Development
Professional Sales
Securities and Investments
Finance, work-based credit

Business Finance 520804**Required Courses:**

Accounting 1
Business Finance

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 2
Banking Services
Business Law
Entrepreneurship
Essential Communications
Financial Math
Fundamentals of Business, Marketing and Finance
Global Business
Insurance
Integrated Business Applications 1
Integrated Business Applications 2
International Business and Marketing
Personal Finance
Professional and Leadership Development
Securities and Investments
Finance, work-based credit

Insurance 521701**Required Courses:**

Business Finance
Insurance

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1
Accounting 2
Banking Services
Business Law
Business Principles and Management
Entrepreneurship
Essential Communications
Financial Math
Fundamentals of Business, Marketing and Finance
Integrated Business Applications 1
Integrated Business Applications 2
Personal Finance
Professional and Leadership Development
Professional Sales
Securities and Investments
Finance, work-based credit

Securities and Investments 520807**Required Courses:**

Business Finance
Securities and Investments

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1
Accounting 2
Banking Services
Business Law
Business Principles and Management
Entrepreneurship
Essential Communications
Financial Math
Fundamentals of Business, Marketing and Finance
Insurance
Integrated Business Applications 1
Integrated Business Applications 2
Personal Finance
Professional and Leadership Development
Professional Sales
Finance, work-based credit

Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Course Code	Course Title
5583	Biomedical Innovation
5531	Emergency Medical Services 1
5532	Emergency Medical Services 2
5533	Emergency Medical Services 3
5550	Health Science 1
5551	Health Science 2
5552	Health Science 3
5560	Health Science Clinical Study
5581	Human Body Systems
5530	Introduction to Emergency Medical Services (Phasing out July 2016)
5582	Medical Interventions
5540	Medical Terminology
5570	Pharmacology for Medical Careers
5520	Practical Nursing, Phase 1
5580	Principles of Biomedical Sciences
5555	Sports Medicine 1
5556	Sports Medicine 2
5590	Health Science, work-based credit
5591	Sports Medicine, work-based credit
5599	Health Science, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
260102	Biomedical Sciences (Project Lead the Way)
510999	EMS
510000	Health Science
511600	Practical Nursing
310505	Sports Medicine

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Biomedical Sciences (Project Lead the Way)..... 260102

Required Courses:

Human Body Systems
Principles of Biomedical Sciences

Additional approved courses if needed to meet state-recognized program requirements:

Biomedical Innovation	Medical Interventions
Emergency Medical Services 1	Medical Terminology
Emergency Medical Services 2	Pharmacology for Medical Careers
Emergency Medical Services 3	Practical Nursing Phase 1
Health Science 1	Sports Medicine 1
Health Science 2	Sports Medicine 2
Health Science 3	Health Science, work based credit
Health Science Clinical Study	Sports Medicine, work-based credit
Introduction to Emergency Medical Services (Phasing out July 2016)	

EMS 510999**Required Courses:**

Emergency Medical Services 1
Emergency Medical Services 2

Additional approved courses if needed to meet state-recognized program requirements:

Emergency Medical Services 3	Medical Terminology
Health Science 1	Pharmacology for Medical Careers
Health Science 2	Practical Nursing, Phase 1
Health Science 3	Principles of Biomedical Sciences
Health Science Clinical Study	Sports Medicine 1
Human Body Systems	Sports Medicine 2
Introduction to Emergency Medical Services (Phasing out July 2016)	Health Science, work-based credit
Medical Interventions	Sports Medicine, work-based credit

Health Science 510000**Required Courses:**

Health Science 1
Health Science 2

Additional approved courses if needed to meet state-recognized program requirements:

Emergency Medical Services 1	Medical Terminology
Emergency Medical Services 2	Pharmacology for Medical Careers
Emergency Medical Services 3	Practical Nursing, Phase 1
Health Science 3	Principles of Biomedical Sciences
Health Science Clinical Study	Sports Medicine 1
Human Body Systems	Sports Medicine 2
Introduction to Emergency Medical Services (Phasing out July 2016)	Health Science, work-based credit
Medical Interventions	Sports Medicine, work-based credit

Practical Nursing 511600

Practical Nursing, Phase 1

Sports Medicine 310505**Required Courses:**

Sports Medicine 1
Sports Medicine 2

Additional approved courses if needed to meet state-recognized program requirements:

Emergency Medical Services 1	Introduction to Emergency Medical Services (Phasing out July 2016)
Emergency Medical Services 2	Medical Interventions
Emergency Medical Services 3	Medical Terminology
Health Science 1	Pharmacology for Medical Careers
Health Science 2	Practical Nursing, Phase 1
Health Science 3	Principles of Biomedical Sciences
Health Science Clinical Study	Health Science, work-based credit
Human Body Systems	Sports Medicine, work-based credit

Hospitality and Tourism

Hospitality and Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services.

Course Code	Course Title
5723	Baking and Pastry
5720	Culinary Arts 1
5721	Culinary Arts 2
5476	Hospitality Management and Operations 1
5477	Hospitality Management and Operations 2
5722	Introduction to Culinary Arts
5478	Introduction to Hospitality Management and Operations
5190	Hospitality and Tourism, work-based credit
5199	Hospitality and Tourism, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
520905	Culinary Arts
520904	Hospitality Management and Operations

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Culinary Arts 520905

Required Courses:

Culinary Arts 1
 Culinary Arts 2
 OR
 Culinary Arts 1
 Baking and Pastry
 OR
 Culinary Arts 1
 Culinary Arts 2
 Baking and Pastry

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1	Introduction to Culinary Arts
Entrepreneurship	Introduction to Hospitality Management and Operations
Foods and Nutrition 1	Sports Nutrition 1
Foods and Nutrition 2	Sports Nutrition 2
Hospitality Management and Operations 1	Web Page Design and Development 1
Integrated Business Applications 1	Hospitality and Tourism, work-based credit

Hospitality Management and Operations 520904

Required Courses:

Hospitality Management and Operations 1
 Hospitality Management and Operations 2

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1	Introduction to Culinary Arts
Culinary Arts 1	Introduction to Hospitality Management and Operations
Entrepreneurship	Marketing Management
Foods and Nutrition 1	Sports and Entertainment Marketing
Foods and Nutrition 2	Web Page Design and Development 1
Integrated Business Applications 1	Hospitality and Tourism, work-based credit

Human Services/Family and Consumer Sciences

Preparing individuals for employment in career pathways that relate to families and human needs.

Course Code	Course Title
6158	Barber/Master Hair Care 1
6159	Barber/Master Hair Care 2
6160	Barber/Master Hair Care 3
6161	Barber/Master Hair Care 4
6150	Cosmetology 1
6151	Cosmetology 2
6152	Cosmetology 3
6153	Cosmetology 4
6162	Esthetics 1
6163	Esthetics 2
6164	Esthetics 3
6165	Esthetics 4
5808	Family and Consumer Sciences 1
5809	Family and Consumer Sciences 2
5820	Family Life Education 1
5821	Family Life Education 2
5804	Fashion, Fabric, and Design 1
5805	Fashion, Fabric, and Design 2
5812	Financial Fitness 1
5813	Financial Fitness 2
5824	Foods and Nutrition 1
5825	Foods and Nutrition 2
5830	Housing and Interiors 1
5831	Housing and Interiors 2
5834	Human Development: Responsible Life Choices 1
5835	Human Development: Responsible Life Choices 2
6154	Nail Technology 1
6155	Nail Technology 2
6156	Nail Technology 3
6157	Nail Technology 4
5816	Parenting Education 1
5817	Parenting Education 2
5759	Sports Nutrition 1
5760	Sports Nutrition 2
5890	Family and Consumer Sciences, work-based credit
5790	Human Services, work-based credit
5899	Family and Consumer Sciences, LBA
5799	Human Services, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
120402	<i>Barber/Master Hair Care</i>
120401	Cosmetology
120409	Esthetics
190101	Family and Consumer Sciences
120410	Nail Technology

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum of 4 units of credit.*

Barber/Master Hair Care 120402

- Barber/Master Hair Care 1
- Barber/Master Hair Care 2
- Barber/Master Hair Care 3
- Barber/Master Hair Care 4
- Human Services, work-based credit

Cosmetology 120401

- Cosmetology 1
- Cosmetology 2
- Cosmetology 3
- Cosmetology 4
- Human Services, work-based credit

Esthetics 120409

- Esthetics 1
- Esthetics 2
- Esthetics 3
- Esthetics 4
- Human Services, work-based credit

Family and Consumer Sciences 190101

Note: Program completers in Family and Consumer Sciences must select courses that show a clear path to a career and be able to complete an approved assessment successfully. A minimum of four units of credit are required to be a completer.

Required Courses (at least two of the following):

Child Development 1	Foods and Nutrition 2
Child Development 2	Housing and Interiors 1
Family and Consumer Sciences 1	Housing and Interiors 2
Family and Consumer Sciences 2	Human Development: Responsible Life Choices 1
Family Life Education 1	Human Development: Responsible Life Choices 2
Family Life Education 2	Parenting Education 1
Fashion, Fabric, and Design 1	Parenting Education 2
Fashion, Fabric, and Design 2	Sports Nutrition 1
Financial Fitness 1	Sports Nutrition 2
Financial Fitness 2	Family and Consumer Sciences, work-based credit
Foods and Nutrition 1	

Additional approved courses if needed to meet state-recognized program requirements:

Culinary Arts 1	Interior Design 1
Early Childhood Education 1	Introduction to Culinary Arts
Fashion Design and Apparel Construction 1	Introduction to Early Childhood Education
Food Science and Dietetics 1	Introduction to Teaching 1

Nail Technology..... 120410

- Nail Technology 1
- Nail Technology 2
- Nail Technology 3
- Nail Technology 4
- Human Services, work-based credit

Information Technology

Building linkages in IT occupations framework: for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Course Code	Course Title
5351	Advanced Animation
5372	Advanced Cyber Security
5374	Computer Forensics
5050	Computer Programming 1
5051	Computer Programming 2
5056	Computer Programming with C++ 1
5057	Computer Programming with C++ 2
5052	Computer Programming with Java 1
5053	Computer Programming with Java 2
5054	Computer Programming with Visual Basic 1
5055	Computer Programming with Visual Basic 2
5320	Computer Service Technology 1
5321	Computer Service Technology 2
5322	Computer Service Technology 3
5323	Computer Service Technology 4
5370	Cyber Security Fundamentals
5324	Database Design and Programming with SQL
5326	Database Programming with PL/SQL
5023	Exploring Computer Science
5350	Foundations of Animation
5352	Game Design and Development
5361	GIS Technology 1
5362	GIS Technology 2
5270	Information Technology Foundations
5025	IT Fundamentals
5058	Java Fundamentals and Java Programming
5310	Networking 1
5311	Networking 2
5312	Networking 3
5313	Networking 4
5327	SAS Programming 1
5328	SAS Programming 2
5031	Web Page Design and Development 1
5033	Web Page Design and Development 2
5390	Information Technology, work-based credit
5399	Information Technology, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
151202	Information Support and Services
110901	Networking Systems
110201	Programming and Software Development
110801	Web and Digital Communications

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Information Support and Services..... 151202

Required Courses:

- Computer Service Technology 1
- Computer Service Technology 2

Additional approved courses if needed to meet state-recognized program requirements:

Advanced Cyber Security	Exploring Computer Science
Computer Forensics	Game Design and Development
Computer Programming 1	Home Systems Technology
Computer Programming 2	Information Technology Foundations
Computer Programming with C++ 1	IT Fundamentals
Computer Programming with C++ 2	Networking 1
Computer Programming with Java 1	Networking 2
Computer Programming with Java 2	Networking 3
Computer Programming with Visual Basic 1	Networking 4
Computer Programming with Visual Basic 2	Professional and Leadership Development
Computer Service Technology 3	SAS Programming 1
Computer Service Technology 4	SAS Programming 2
Cyber Security Fundamentals	Web Page Design and Development 1
Database Design and Programming w/SQL	Web Page Design and Development 2
Database Programming with PL/SQL	Information Technology, work-based credit
Entrepreneurship	

Networking Systems 110901

Required Courses:

- Networking 1
- Networking 2

Additional approved courses if needed to meet state-recognized program requirements:

Advanced Cyber Security	Database Design and Programming w/SQL
Computer Forensics	Database Programming with PL/SQL
Computer Programming 1	Entrepreneurship
Computer Programming 2	Exploring Computer Science
Computer Programming with C++ 1	Home Systems Technology
Computer Programming with C++ 2	Information Technology Foundations
Computer Programming with Java 1	IT Fundamentals
Computer Programming with Java 2	Networking 3
Computer Programming with Visual Basic 1	Networking 4
Computer Programming with Visual Basic 2	Professional and Leadership Development
Computer Service Technology 1	SAS Programming 1
Computer Service Technology 2	SAS Programming 2
Computer Service Technology 3	Web Page Design and Development 1
Computer Service Technology 4	Web Page Design and Development 2
Cyber Security Fundamentals	Information Technology, work-based credit

Programming and Software Development..... 110201

Required Courses:

- Computer Programming 1
- Computer Programming 2
- OR
- Computer Programming with C++ 1
- Computer Programming with C++ 2
- OR
- Computer Programming with Java 1
- Computer Programming with Java 2
- OR
- Computer Programming with Visual Basic 1
- Computer Programming with Visual Basic 2
- OR
- Database Design and Programming with SQL
- Database Programming with PL/SQL

Additional approved courses if needed to meet state-recognized program requirements:

Advanced Animation	Information Technology Foundations
Advanced Cyber Security	IT Fundamentals
Computer Forensics	Java Fundamentals and Java Programming
Cyber Security Fundamentals	Professional and Leadership Development
Entrepreneurship	SAS Programming 1
Exploring Computer Science	SAS Programming 2
Foundations of Animation	Web Page Design and Development 1
Game Design and Development	Web Page Design and Development 2
GIS Technology 1	Information Technology, work-based credit
GIS Technology 2	

Web and Digital Communications..... 110801

Required Courses:

- Web Page Design and Development 1
- Web Page Design and Development 2

Additional approved courses if needed to meet state-recognized program requirements:

Advanced Animation	Google Applications
Computer Programming 1	Image Editing 1
Computer Programming 2	Image Editing 2
Digital Desktop Publishing	Information Technology Foundations
Digital Input Technologies	Integrated Business Applications 1
Digital Media Marketing	Integrated Business Applications 2
Digital Multimedia	IT Fundamentals
Entrepreneurship	Java Fundamentals and Java Programming
Exploring Computer Science	Professional and Leadership Development
Foundations of Animation	Social Media in Business
Game Design and Development	Information Technology, work-based credit

Law, Public Safety, Corrections, and Security

Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

Course Code	Course Title
6512	Emergency and Fire Management Services 1
6513	Emergency and Fire Management Services 2
6514	Fire Fighter 1 #
6515	Fire Fighter 2 #
6505	Introduction to Law, Public Safety, Corrections and Security
6510	Law Enforcement Services 1
6511	Law Enforcement Services 2
6590	Law, Public Safety, Corrections and Security, work-based credit
6599	Law, Public Safety, Corrections and Security, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
430203	Emergency and Fire Management Services
430107	Law Enforcement Services

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Emergency and Fire Management Services 430203

Fire Fighter 1
Fire Fighter 2

Additional approved courses if needed to meet state-recognized program requirements:

Introduction to Law, Public Safety, Corrections and Security
Law, Public Safety, Corrections and Security, work-based credit

OR

Emergency and Fire Management Services 1
Emergency and Fire Management Services 2
Introduction to Law, Public Safety, Corrections and Security
Law, Public Safety, Corrections and Security, work-based credit

Note: A state-recognized CATE program must include a *minimum* of 4 Carnegie units of credit. The Emergency and Fire Management Services program must include multi-unit courses to meet this requirement.

Law Enforcement Services 430107

Introduction to Law, Public Safety, Corrections and Security
Law Enforcement Services 1
Law Enforcement Services 2
Law, Public Safety, Corrections and Security, work-based credit

Note: A state-recognized CATE program must include a *minimum* of 4 Carnegie units of credit. The Law Enforcement Services program must include multi-unit courses to meet this requirement.

Manufacturing

Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Course Code	Course Title
6133	Electronics Technology 1
6134	Electronics Technology 2
6135	Electronics Technology 3
6136	Electronics Technology 4
6045	Introduction to Manufacturing Technology
6230	Machine Technology 1
6231	Machine Technology 2
6232	Machine Technology 3
6233	Machine Technology 4
6210	Mechatronics 1-Industrial Safety
6211	Mechatronics 2-Hand & Power Tool Op.
6212	Mechatronics 3-Hydraulics & Pneumatics
6213	Mechatronics 4-AC-DC Circuits
6260	Metal Fabrication 1
6261	Metal Fabrication 2
6262	Metal Fabrication 3
6263	Metal Fabrication 4
6340	Welding Technology 1
6341	Welding Technology 2
6342	Welding Technology 3
6343	Welding Technology 4
6490	Manufacturing, work-based credit
6499	Manufacturing, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
470101	Electronics Technology
480503	Machine Technology
150404	Mechatronics Integrated Technologies
480501	Metal Fabrication
480508	Welding Technology

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Electronics Technology..... 470101

Electronics Technology 1
 Electronics Technology 2
 Electronics Technology 3
 Electronics Technology 4
 Manufacturing, work-based credit

Machine Technology 480503

Machine Technology 1
 Machine Technology 2
 Machine Technology 3
 Machine Technology 4
 Manufacturing, work-based credit

Mechatronics Integrated Technologies..... 150404

Mechatronics 1-Industrial Safety
Mechatronics 2-Hand & Power Tool Op.
Mechatronics 3-Hydraulics & Pneumatics
Mechatronics 4-AC-DC Circuits
Manufacturing, work-based credit

OR

Required Courses:

PLTW-Introduction to Engineering Design
PLTW-Principles of Engineering

AND two or more of the following:

Mechatronics 1-Industrial Safety
Mechatronics 2-Hand & Power Tool Op.
Mechatronics 3-Hydraulics & Pneumatics
Mechatronics 4-AC-DC Circuits
Manufacturing, work-based credit

Metal Fabrication 480501

Metal Fabrication 1
Metal Fabrication 2
Metal Fabrication 3
Metal Fabrication 4
Manufacturing, work-based credit

Welding Technology 480508

Welding Technology 1
Welding Technology 2
Welding Technology 3
Welding Technology 4
Manufacturing, work-based credit

Marketing

Planning, managing, and performing marketing activities to reach organizational objectives.

Course Code	Course Title
5470	Advertising
5422	Digital Media Marketing
5410	Fashion Merchandising
5440	Global Business
5421	Marketing
5431	Marketing Management
5423	Marketing Research
5430	Merchandising
5471	Professional Sales
5425	<i>Sports and Entertainment Marketing (Formerly Sports and Entertainment Marketing 1)</i>
5426	Sports and Entertainment Management
5091	Marketing, work-based credit
5099	Marketing, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
090903	Marketing Communications
521401	Marketing Management
521402	Marketing Research
521802	Merchandising
521804	Professional Sales

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Marketing Communications 090903

Required Courses:

Advertising or Digital Media Marketing
Marketing

Additional approved courses if needed to meet state-recognized program requirements:

Digital Desktop Publishing	Professional and Leadership Development
Digital Multimedia	Professional Sales
Entrepreneurship	Social Media in Business
Essential Communications	Sports and Entertainment Marketing
Global Business	Virtual Enterprise 1
Google Applications	Virtual Enterprise 2
Image Editing 1	Virtual Enterprise 3
Image Editing 2	Virtual Enterprise 4
Integrated Business Applications 1	Web Page Design and Development 1
Integrated Business Applications 2	Web Page Design and Development 2
International Business and Marketing	Marketing, work-based credit
Marketing Research	

Marketing Management..... 521401**Required Courses:**

Marketing
Marketing Management

Additional approved courses if needed to meet state-recognized program requirements:

Accounting 1	Integrated Business Applications 2
Accounting 2	Logistics and Business Processes
Advertising	Marketing Research
Business Law	Professional and Leadership Development
Business Principles and Management	Professional Sales
Entrepreneurship	Social Media in Business
Essential Communications	Sports and Entertainment Management
Fundamentals of Project Management	Virtual Enterprise 1
Google Applications	Virtual Enterprise 2
Hospitality Management and Operations 1	Virtual Enterprise 3
Hospitality Management and Operations 2	Virtual Enterprise 4
Integrated Business Applications 1	Marketing, work-based credit

Marketing Research 521402**Required Courses:**

Marketing
Marketing Research

Additional approved courses if needed to meet state-recognized program requirements:

Advertising	Professional and Leadership Development
Entrepreneurship	Professional Sales
Essential Communications	SAS Programming 1
Global Business	SAS Programming 2
Google Applications	Social Media in Business
Hospitality Management and Operations 1	Sports and Entertainment Marketing
Hospitality Management and Operations 2	Virtual Enterprise 1
Integrated Business Applications 1	Virtual Enterprise 2
Integrated Business Applications 2	Virtual Enterprise 3
International Business and Marketing	Virtual Enterprise 4
Merchandising	Marketing, work-based credit

Merchandising 521802**Required Courses:**

Marketing
Merchandising

Additional approved courses if needed to meet state-recognized program requirements:

Advertising	Integrated Business Applications 2
Digital Desktop Publishing	International Business and Marketing
Digital Media Marketing	Marketing Research
Entrepreneurship	Professional and Leadership Development
Essential Communications	Professional Sales
Fashion Merchandising	Sports and Entertainment Marketing
Global Business	Social Media in Business
Google Applications	Web Page Design and Development 1
Image Editing 1	Web Page Design and Development 2
Image Editing 2	Marketing, work-based credit
Integrated Business Applications 1	

Professional Sales 521804**Required Courses:**

Marketing
Professional Sales

Additional approved courses if needed to meet state-recognized program requirements:

Digital Desktop Publishing	Marketing Research
Digital Media Marketing	Merchandising
Entrepreneurship	Professional and Leadership Development
Essential Communications	Social Media in Business
Global Business	Sports and Entertainment Marketing
Google Applications	Virtual Enterprise 1
Hospitality Management and Operations 1	Virtual Enterprise 2
Hospitality Management and Operations 2	Virtual Enterprise 3
Integrated Business Applications 1	Virtual Enterprise 4
Integrated Business Applications 2	Marketing, work-based credit
International Business and Marketing	

Science, Technology, Engineering, and Mathematics

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.

Course Code	Course Title
6371	3D Solid Modeling
6381	Clean Energy Applications
6380	Clean Energy Systems
5757	Food Science and Dietetics 1
5758	Food Science and Dietetics 2
6040	Industrial Technology Education (Exploratory) 1
6041	Industrial Technology Education (Exploratory) 2
6370	Introduction to Engineering
6056	PLTW-Aerospace Engineering
6057	PLTW-Biotechnical Engineering
6058	PLTW-Civil Engineering and Architecture
6053	PLTW-Computer Integrated Manufacturing
6096	PLTW-Computer Software Engineering
6052	PLTW-Digital Electronics
6054	PLTW-Engineering Design and Development
6051	PLTW-Introduction to Engineering Design
6095	PLTW-Introduction to Pre-Engineering Technology
6050	PLTW-Principles of Engineering
6090	Pre-Engineering/Engineering & Industrial Technology Education, work-based credit
6099	Pre-Engineering/Industrial Technology Education, LBA
6890	Science, Technology, Engineering and Mathematics, work-based credit#
CIP Code	Program Title (See below for the approved courses for each CATE program)
140101	Pre-Engineering (Project Lead the Way)
190501	Food Science and Dietetics

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Pre-Engineering (Project Lead the Way) 140101

Required Courses:

PLTW-Introduction to Engineering Design
 PLTW-Principles of Engineering

Additional approved courses if needed to meet state-recognized program requirements:

PLTW-Aerospace Engineering
 PLTW-Biotechnical Engineering
 PLTW-Civil Engineering and Architecture
 PLTW-Computer Integrated Manufacturing
 PLTW-Computer Software Engineering
 PLTW-Digital Electronics
 PLTW-Engineering Design and Development
 Pre-Engineering/Engineering & Industrial Technology Education, work-based credit

Food Science and Dietetics 190501

Required Courses:

Food Science and Dietetics 1
Food Science and Dietetics 2

Additional approved courses if needed to meet state-recognized program requirements:

- *Accounting 1
- *Child Development 1
- *Child Development 2
- Foods and Nutrition 1
- Foods and Nutrition 2
- Food Processing
- *Human Development: Responsible Life Choices 1
- *Human Development: Responsible Life Choices 2
- *Integrated Business Application 1
- *Marketing
- Sports Nutrition 1
- Sports Nutrition 2
- *Web Page Design and Development 1

***Note:** Accounting 1, Child Development 1, Child Development 2, Human Development: Responsible Life Choices 1, Human Development: Responsible Life Choices 2, Integrated Business Application 1, Marketing, and Web Page Design and Development 1 will not be included in the program effective **July 2016**.

Transportation, Distribution, and Logistics

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

Course Code	Course Title
6020	Automotive Collision Repair Technology 1
6021	Automotive Collision Repair Technology 2
6022	Automotive Collision Repair Technology 3
6023	Automotive Collision Repair Technology 4
6030	Automotive Technology 1
6031	Automotive Technology 2
6032	Automotive Technology 3
6033	Automotive Technology 4
6310	Diesel Engine Technology 1
6311	Diesel Engine Technology 2
6312	Diesel Engine Technology 3
6313	Diesel Engine Technology 4
6015	Introduction to Transportation, Distribution and Logistics
6300	Power Equipment Technology 1
6301	Power Equipment Technology 2
6302	Power Equipment Technology 3
6303	Power Equipment Technology 4
6790	Transportation, Distribution and Logistics, work-based credit
6199	Transportation, Distribution and Logistics, LBA
CIP Code	Program Title (See below for the approved courses for each CATE program)
470603	Automotive Collision Repair Technology
470604	Automotive Technology
470605	Diesel Engine Technology
470606	Power Equipment Technology

Each state-recognized CATE program identified below must include only approved courses listed for each CIP code and must offer a *minimum* of 4 units of credit.

Automotive Collision Repair Technology 470603

Automotive Collision Repair Technology 1
 Automotive Collision Repair Technology 2
 Automotive Collision Repair Technology 3
 Automotive Collision Repair Technology 4
 Transportation, Distribution and Logistics, work-based credit

Automotive Technology 470604

Automotive Technology 1
 Automotive Technology 2
 Automotive Technology 3
 Automotive Technology 4
 Transportation, Distribution and Logistics, work-based credit

Diesel Engine Technology.....470605

- Diesel Engine Technology 1
- Diesel Engine Technology 2
- Diesel Engine Technology 3
- Diesel Engine Technology 4
- Transportation, Distribution and Logistics, work-based credit

Power Equipment Technology470606

- Power Equipment Technology 1
- Power Equipment Technology 2
- Power Equipment Technology 3
- Power Equipment Technology 4
- Transportation, Distribution and Logistics, work-based credit

The Office of Career and Technology Education currently offers no courses in the following cluster:

Government and Public Administration

Executing governmental functions to include governance; national security; foreign service; planning; revenue and taxation; regulation; and management and administration at the local, state, and federal levels.

Middle School CATE Courses

Seventh and Eighth Grades

Course Code	Course Title
2841	Gateway to Technology
2840	Industrial Technology Education
2856	Introduction to Agriculture
2830	Introduction to Career Clusters
2857	Introduction to FACS 1
2858	Introduction to FACS 2
<p>Use 5008 (Computer Applications), 5100 (Keyboarding), 5181 (Digital Literacy), 5010 (Multimedia Basics), 5011 (Google Basics) and 5282 (Financial Literacy) as the course codes for middle school students taking these courses for high school credit if (a) the courses follow the CATE curriculum standards for Computer Applications, Keyboarding, Digital Literacy, Multimedia Basics, Google Basics, and Financial Literacy and (b) if a teacher with business education certification teaches the courses.</p>	
5008	Computer Applications (high school credit)
5181	Digital Literacy (high school credit)
5282	Financial Literacy (high school credit)
5011	Google Basics (high school credit)
5100	Keyboarding (high school credit)
5010	Multimedia Basics (high school credit)

Appendix D Nontraditional CATE Programs

Nontraditional Programs for Females	
CIP Code	Program Title
010205	Agricultural Mechanics and Technology
470201	HVAC Technology
151301	Architectural/Mechanical Design
470603	Automotive Collision Repair Technology
470604	Automotive Technology
460000	Building Construction Cluster
480703	Cabinetmaking
460201	Carpentry
470103	Communication Electronics (Program phased out July 2013)
470101	Electronics Technology
470605	Diesel Engine Technology
460301	Electricity
430203	Emergency and Fire Management Services
030101	Environmental and Natural Resources Management
520201	General Management
010601	Horticulture
470105	Industrial Electronics (Program phased out July 2013)
151202	Information Support and Services
430107	Law Enforcement Services
480503	Machine Technology
460101	Masonry
150404	Mechatronics Integrated Technologies
480501	Metal Fabrication
110901	Networking Systems
011101	Plant and Animal Systems
460503	Plumbing
110201	Programming and Software Development
140101	Pre-Engineering (Project Lead The Way)
470606	Power Equipment Technology
480508	Welding Technology

Nontraditional Programs for Males	
CIP Code	Program Title
520401	Administrative Services
120401	Cosmetology
131210	Early Childhood Education
190501	Food Science and Dietetics
120410	Nail Technology

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