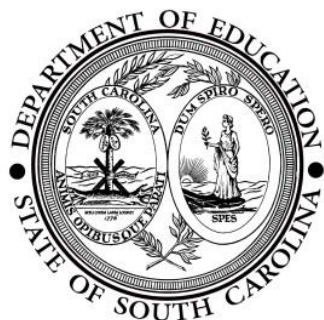


2016-17

CATE Student Reporting Procedures Guide

Office of Career and Technology Education
South Carolina Department of Education



Molly Spearman
State Superintendent of Education

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Changes Effective 2016-17 School Year

Table of Contents

Preface	iv
Deadlines	iv
Career and Technology Education Student Data	
Accessing the PowerSchool CATE Page	1
Field Descriptions (CATE Page).....	2
Single Parent.....	2
Displaced Homemaker	2
Exceptions	2
Diploma Earned	3
CATE Concentrator.....	4
CIP Code	4
Completer.....	4
Completion Year	5
Remote School Number	5
Certifications	5
Certification Dates	29
CATE Placement Code.....	29
Data Extracted from Other PowerSchool Pages	31
PowerSchool Scheduling, Sections Page	32
Data Collection and Submission Notes	33
PowerSchool Searches.....	34
OCTE Contact Information	41
Appendix A	
Perkins Accountability Indicators for CATE	42
Appendix B	
CATE Report Card Measures.....	45

Appendix C

CATE Clusters, Programs, and Courses	46
CATE Code Descriptions	
Course ID	47
Course Code.....	47
Innovative Courses	47
Work-Based Learning Courses	47
CATE Program	47
CIP Code	47
CATE Program Contact Information.....	48
Courses, Course Codes, Programs, and CIP Codes by Cluster	
Agriculture, Food, and Natural Resources.....	49
Architecture and Construction.....	52
Arts, Audio-Video Technology and Communications.....	54
Business Management and Administration.....	56
Education and Training	60
Finance.....	61
Health Science.....	64
Hospitality and Tourism	66
Human Services/Family and Consumer Sciences	68
Information Technology	70
Law, Public Safety, Corrections and Security	73
Manufacturing	74
Marketing	76
Science, Technology, Engineering and Mathematics.....	79
Transportation, Distribution and Logistics.....	81
Middle School CATE Courses	83

Appendix D

Nontraditional CATE Programs.....	84
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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 17, 2017

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/instruction/career-and-technology-education/performance-accountability/cate-data-collection-and-reporting>.

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

The screenshot shows the 'SC Career & Technology Education Data Entry' form. At the top, it displays student information: 'Hasty, Victoria Marie 12 640341001189 A THS State ID: 6713253032 Entry Date: 08/18/2015 Homeroom: Robinson, Crystal'. Below this is a navigation bar with tabs: 'Contacts', 'CATE', 'Early Childhood', 'SC Student Information', 'Precode', 'Students Not Tested', 'Transport', and 'Work-Based Learning'. The 'CATE' tab is selected. The form contains various input fields and dropdown menus, including: 'Single Parent', 'Displaced Homemaker', 'Exceptions', 'Diploma Earned', 'CATE Concentrator', 'CIP Code', 'Custom/Cross-Cluster CIP Code (Approval Required)', 'Completer', 'Completion Year', 'Remote School Number', and ten rows for 'Certification' (1-10), each with a dropdown for the year and a date field. At the bottom, there are fields for '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', and '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 South Carolina Student Information page in PowerSchool (State/Province – SC page). Once the field has been populated on the South Carolina Student Information 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.

South Carolina Student Information

Hasty, Victoria Marie 12 640341001189 A THS State ID: 6713253032 Entry Date: 08/18/2015 Homeroom: Robinson, Crystal

Contacts
CATE
Early Childhood
SC Student Information
Precode
Students Not Tested
Transport
Work-Based Learning

English Prof	9 - English Speaker II	Primary Language	(blank) - English
Birth Country	Select One	Language for Oral Communication	(blank) - English
U.S. School Entry Date	MM/DD/YYYY	Language for Written Communication	(blank) - English
1st Lang Spoken	(blank) - English	Home Lang	(blank) - English
Birth Place			

Instructional Setting	(blank) - Regular Ed - Full Yr	True Grade	(blank) - Select One
Medicaid No		Medicaid Consent Date	MM/DD/YYYY
Comprehensive Health		504 Plan	
		PE Compliance	

Ninth Grade Code	13 - 2012-2013	Diploma Type (for Transcript)	N - District Award Document
Diploma Ordered		Award Ordered	
Diploma Earned		Award Earned	
Diploma Order Number		Scholarship Ordered	
Graduation Date	MM/DD/YYYY	Graduated School Number and Name	0 -

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 46-83.
- ❖ 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.**

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 2016-17 the entry would be **FA16** if student completed in the fall of 2016 or **SP17** if the student completed in the spring of 2017.

- ▶ **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.

<http://www.comptiastore.com/Articles.asp?ID=265&category=vouchers>

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.

<http://www.natef.org/Home.aspx>

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.

<http://www.natef.org/Home.aspx>

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]

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.

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

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

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

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>

[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 – discontinued]

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-cccdd.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.certipoint.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 - 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 IT Fundamentals

The CompTIA IT Fundamentals exam is designed to help you learn more about the world of information technology (IT). It's ideal if you're considering a career in IT or if you work in an allied field that requires a broad understanding of IT. CompTIA IT Fundamentals can also be a stepping stone to more advanced certifications such as CompTIA A+, and, with specialized experience, CompTIA Network+ and CompTIA Security+.

<https://certification.comptia.org/certifications/it-fundamentals>

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

[idx?SID=9849a38939ee1fb520b19d3bf296f7ce&node=sp40.15.63.hhhhhh&rgn=div6](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.

<http://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

<http://www.certiport.com/PORTAL/desktopdefault.aspx?tabid=672&roleid=101>

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 – TestOut 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 – TestOut 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 – TestOut 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 credential recognizes the skills, knowledge and responsibilities needed to keep guest rooms clean, safe and maintained at a lodging property. The certification is supported by the START (Skills, Tasks, and Results Training) for Guestroom Attendant. The online program presents concise instructions for training new or prospective employees on how to perform key tasks correctly, along with the general hospitality knowledge, and soft skills needed in the hospitality industry. Students must pass the 30 multiple-choice questions certification exam with a score of 70% or higher.

https://www.ahlei.org/Product_by_Category/Entry_Level/Certified_Guestroom_Attendant_Online_Program/

A62 – Restaurant Server

START (Skills, Tasks, and Results Training) for Individual Positions offers flexible and concise instructions on how to perform key tasks, along with the general hospitality knowledge, and soft skills needed to succeed as a food service professional in a front-line position at a dining facility. Successful candidates who complete the START program and pass the 30 multiple-choice *Restaurant Server certification* exam with a score of 70% or higher will receive a certificate.

https://www.ahlei.org/Product_by_Category/Entry_Level/Certified_Restaurant_Server_START_Study_Guide/

A63 – Certified Maintenance Employee (HSC)

The START (Skills, Tasks, and Results Training) Program for Individual Positions offers flexible, and concise instructions on how to perform key tasks, along with the general hospitality knowledge, and soft skills needed to succeed in a front-line position at a lodging property. The START study guide for Maintenance Employee is intended for trainees learning in a classroom setting. The guide is divided into three sections for the trainee:

- Knowledge that all hospitality employees need
- Knowledge specific to the Maintenance position
- Common tasks broken down into a step-by-step method

<https://www.ahlei.org/Certifications/Line-Employees/Certified-Maintenance-Employee/>

A64 – Advanced Child Care Training

The American Red Cross Advanced Child Care Training Online course teaches the knowledge and skills necessary to responsibly care for children and infants in and outside of the home. This includes training in leadership, child behavior and discipline, professionalism, safety, basic childcare (bottle feeding, holding, etc.). Learners will be engaged in virtual environments in which world-class animated characters respond specifically to choices made. Throughout, learning is supported through additional activities and informative videos. Note: This program is not intended as certification for state licensed child-care providers and does not meet all state requirements for such certification.

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

A65 – The Child Development Associate Credential

The Child Development Associate (CDA) Credential™ is based on a core set of competency standards, which guide early care professionals as they work toward becoming qualified teachers of young children. The Council works to ensure that the nationally-transferable CDA is a credible and valid credential, recognized by the profession as a vital part of professional development.

<http://www.cdacouncil.org/about/cda-credential>

A66 – Certified Patient Care Technician (CPCT)

The Certified Patient Care Technician/Assistant assists doctors, nurses and other healthcare professionals in providing direct patient care in a variety of healthcare environments. While similar to a Nurse Aid, a Patient Care Technician is nationally certified instead of state licensed. Patient Care Technicians can also conduct blood draws as well as EKG's. To build upon your Nurse Aid curriculum, we recommend adding content in Phlebotomy and EKG to ensure your students success on the exam. The exam is 150 multiple choice questions.

<http://www.nhanow.com/patient-care-technician.aspx>

A67 – Medical Billing and Coding Specialist

Medical Billing and Coding Specialist are the health care professionals in charge of processing patient data such as treatment records and related insurance information. The healthcare industry depends on skilled, qualified medical insurance billers and coders to accurately record, register and track each patient's account. Medical Billing and Coding Specialists are largely responsible for making sure medical office revenue cycles run smoothly. Upon successful completion of the MBC Program, students qualify to sit for the national certification exam through NCCT Inc. Certified as a National Certified Insurance Coding Specialist (NCICS).

<https://www.ncctinc.com/>

A68 – Community Emergency Response Team

CERT educates individuals about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using training learned in the classroom and during exercises, CERT volunteers can assist others in their community following a disaster when professional responders are not immediately available to help. CERT volunteers are also encouraged to support emergency response agencies by taking an active role in emergency preparedness projects.

Teen CERT training teaches you readiness and response skills. Hands-on practice and realistic exercises prepare you for the unexpected in your community. Newly learned leadership skills empower you to safely respond to an emergency and assist victims without endangering yourself or others. You'll be equipped with skills that last a lifetime.

<http://www.fema.gov/community-emergency-response>

<http://www.fema.gov/teen-community-emergency-response-team>

A69 – NFPA 1001 Firefighter I and Firefighter II Certification

Students enrolled in an academy recognized high school, career center, technical school program and members of out-of-state fire departments or brigades are eligible for certification only when it is offered as a part of the SCFA in-state delivery system. This is done through the review of student records and must be completed as part of the registration process. Exceptions will be considered on a case-by-case basis and approved by the Training and Development Director or his designee. Requests by applicants from other IFSAC states or Pro Board states will be considered only if that state's entity is not accredited to the level requested.

http://www.scfa.state.sc.us/Education/index.asp?file=acc_crt_lev.htm

A70 – The National Incident Management System Certifications

Training Program defines the national NIMS training program as it relates to the NIMS components of Preparedness, Communications and Information Management, Resource Management and Command and Management. It specifies the National Integration Center (NIC) and stakeholder responsibilities and activities for developing, maintaining and sustaining NIMS training. The NIMS Training Program outlines responsibilities and activities that are consistent with the National Training Program, as mandated by the Post-Katrina Emergency Management Reform Act of 2006. This program integrates with FEMA training offered through the Emergency Management Institute (EMI) and United States Fire Administration (USFA).

<https://www.fema.gov/training-0>

A71 – S/P2 - Culinary Arts

S/P2 is the industry standards of awareness for comprehensive safety. The purpose of the certified program is to reduce the number of accidents in the classroom and in the workplace. Students can earn national certifications in S/P2 Culinary Food Safety, S/P2 Culinary Workplace Safety, Land That Job: Interview Skills for Culinary Students, Ethics in the Culinary Industry (Coming Soon).

<https://sp2.org/site/page/culinary-schools>

A72 – S/P2 – Cosmetology

S/P2 is the industry standards of awareness for comprehensive safety. The purpose of this certified program is to reduce the number of accidents in the classroom and in the workplace. Students can earn national certifications in S/P2 Cosmetology, Land That Job: Interview Skills for Cosmetology Students, Ethics and YOU in the Cosmetology Industry.

<https://sp2.org/site/page/cosmetology-schools>

Certification Year 1 – Certification Year 10

UPDATED

The **Certification Year** fields indicate the semester and year in which the student received national and state certifications and credentials. For school year 2016-17 the entry would be **FA16** if the certification or credential was received in the fall of 2016 or **SP17** if the student received the certification or credential in the spring of 2017.

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

Note: The **Certification Year** fields replace the Certification Date fields. The Certification Date fields will remain visible (grayed out) on the page in “View Only” mode.

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 to be used for this special population have not been determined yet for the 2016-17 school year.

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 South Carolina Student Information 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 screenshot shows the 'Edit Section' page in PowerSchool. The form includes fields for Course Name, Course Number, Schedule, Term, Teacher, Teachers/Staff, Room, Section Number, Grade Level, Current Enrollment, Maximum Enrollment, District Where Taught, and School Where Taught. A red box highlights the 'District Where Taught' and 'School Where Taught' fields, with an arrow pointing to a callout box that lists these fields and their instructions.

Field	Value																																								
Course Name	Introduction to Engineering Design																																								
Course Number	505101HW																																								
Schedule	Expression: <table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr><td>1</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>2</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>3</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>4</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>5</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>6</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>7</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>8</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>HR</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>		A	B	C	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Section Number*

Grade Level

Current Enrollment

Maximum Enrollment

District Where Taught
(Enter District ID If Taught At Different District. Otherwise, Leave Blank.)

School Where Taught
(Enter School ID If Taught At Different School. Otherwise, Leave Blank.)

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 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, 2017

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 1664 selected students

SC_CATE_CIPCode
SC_CATE_ConcInrd
SC_CATE_CompleterInrd
SC_CATE_YrCompleted
SC_CATE_RemoteSchCode
SC_DiplomaEarnCode

Data Export Layout

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 District Search

SC_CATE_ConcInrd=Y

Advanced View Field List View Function 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

PK3 PK4 K 1 2 3 4 5 6 7 8 9 10 11 12 M F All Stored Searches Stored Selections Multi Select

Inactive Students Transferred Out Graduated Students Pre-Enrolled (All Years)

PowerSchool Mastery in Minutes
The free August Mastery in Minutes videos are available!
Click here to view.

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_ConcetrInd
 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.

Quick Export

Export the 1 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

Do you want to open or save student.export.text from 10.86.53.36? Open Save Cancel

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
1900	2009-2010
2000	2010-2011
2100	2011-2012
2200	2012-2013
2300	2013-2014
2400	2014-2015
2500	2015-2016
2600	2016-2017

2. Secondary "search sections" criteria are, for example,:
 - a. Course_Number >= 49990000
 - b. Course_Number <= 6999ZZZZ
3. Search within the current # records only
 - a. SchoolID
 - b. Teacher
 - c. [05]LastFirst
 - d. Course_Number
 - e. [02]Course_Name

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
1900	2009-2010
2000	2010-2011
2100	2011-2012
2200	2012-2013
2300	2013-2014
2400	2014-2015
2500	2015-2016
2600	2016-2017

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

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

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

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 Murline S. Ingram 803-734-4901 mingram@ed.sc.gov
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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	Contact
Career Guidance Work-Based Learning (Non-Credit Bearing)	Kama Staton 803-734-8415 kstaton@ed.sc.gov
CATE Curriculum Standards Technical Skill Assessments	Dana Depew 803-734-2828 ddepew@ed.sc.gov
Special Populations Nontraditional Training and Employment	Rachel Rutledge 803-734-8438 rrutledge@ed.sc.gov

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

NEW

▶ Formula

Numerator = total number of 12th-grade concentrators who scored proficient or advanced on the English language arts assessment, as reported for ESEA/ESSA

Denominator = total number of 12th-grade concentrators in the reporting year who were included in the previous year's computation used by the state for high school academic attainment in English language arts, as reported for ESEA/ESSA

1S2 ACADEMIC ATTAINMENT – MATHEMATICS

NEW

▶ Formula

Numerator = total number of 12th-grade concentrators who scored proficient or advanced on the mathematics assessment, as reported for ESEA/ESSA

Denominator = total number of 12th-grade concentrators in the reporting year who were included in the previous year's computation used by the state for high school academic attainment in mathematics, as reported for ESEA/ESSA

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

Report Card Measures and Indicators have not been determined yet for the 2016-17 school year.

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 2016-17, 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 49 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.**

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@clemson.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
6126	Media Technology 3 #
6127	Media Technology 4 #
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	<i>Fundamentals of Web Page Design and Development</i>
Family and Consumer Sciences 2	Integrated Business Applications 1
Fashion, Fabric, and Design 1	Marketing Management
Fashion, Fabric, and Design 2	Mechanical Design 1
<i>Fashion Marketing</i>	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	Housing and Interiors 2
Family and Consumer Sciences 1	Integrated Business Applications 1
Family and Consumer Sciences 2	Marketing Management
<i>Fundamentals of Web Page Design and Development</i>	Mechanical Design 1
Housing and Interiors 1	Arts, Audio-Video Technology and Communications, work-based credit

Media Technology 100299

Media Technology 1
 Media Technology 2
Media Technology 3 #
Media Technology 4 #
 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 83 for More Info)
5176	Digital Desktop Publishing
5181	Digital Literacy (Refer to Page 83 for More Info)
5030	Digital Multimedia
5180	<i>Digital Technologies</i>
5400	Entrepreneurship
5041	Essential Communications
5090	Fundamentals of Business, Marketing and Finance
5480	Fundamentals of Project Management
5032	<i>Global Business</i>
5007	Google Applications
5011	Google Basics (Refer to Page 83 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
5100	Keyboarding (Refer to Page 83 for More Info)
5482	Logistics and Business Processes
5010	Multimedia Basics (Refer to Page 83 for More Info)
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:

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

Business Information Management..... 521206

Required Courses:

Digital Desktop Publishing
 Image Editing 1

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

<i>Advanced Web Page Design and Development</i>	Fundamental of Project Management
Advertising	<i>Fundamentals of Web Page Design and Development</i>
Business Principles and Management	Google Applications
Digital Multimedia	Image Editing 2
<i>Digital Technologies</i>	Integrated Business Applications 1
Entrepreneurship	Integrated Business Applications 2
Essential Communications	Information Technology Foundations
Exploring Computer Science	IT Fundamentals
Financial Math	Professional Leadership Development
Foundations of Animation	Social Media in Business
Fundamentals of Business, Marketing, and Finance	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	Logistics and Business Processes
Business Law	Marketing
Business Principles and Management	Marketing Management
Essential Communications	Professional and Leadership Development
Financial Math	Social Media in Business
Fundamentals of Business, Marketing and Finance	Virtual Enterprise 1
Fundamentals of Project Management	Virtual Enterprise 2
<i>Global Business</i>	Virtual Enterprise 3
Google Applications	Virtual Enterprise 4
Human Resource Management	Business Management and Administration, work-based credit
Integrated Business Applications 1	

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

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	Logistics and Business Processes
<i>Digital Technologies</i>	Marketing
Entrepreneurship	Professional and Leadership Development
Essential Communications	Social Media in Business
Financial Math	Virtual Enterprise 3
Fundamentals of Business, Marketing, and Finance	Virtual Enterprise 4
Fundamentals of Project Management	Business Management and Administration, work-based credit
<i>Global Business</i>	

Education and Training

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

Course Code	Course Title
5800	Child Development 1 (Refer to Page 83 for More Info)
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	Integrated Business Applications 1
Child Development 2	Introduction to Early Childhood Education
Entrepreneurship	Introduction to Teaching 1
Family Life Education 1	Parenting Education 1
Family Life Education 2	Parenting Education 2
Foods and Nutrition 1	Teacher Cadet - CATE
Foods and Nutrition 2	Education and Training, work-based credit
<i>Fundamental of Web Page Design and Development</i>	

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

Finance

Planning, services for financial and investment planning, banking, insurance and business financial management.

Course Code	Course Title
5001	Accounting 1
5005	Accounting 2
5271	Banking Services
5273	Business Finance
5282	Financial Literacy (Refer to Page 83 for More Info)
5281	Financial Math
5275	Insurance
5131	Personal Finance – <i>(deleted from Business Management Administration)</i>
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
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
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
5584	Medical Billing and Coding #
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

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	Pharmacology for Medical Careers
Health Science 1	Practical Nursing, Phase 1
Health Science 2	Principles of Biomedical Sciences
Health Science 3	Sports Medicine 1
Health Science Clinical Study	Sports Medicine 2
Human Body Systems	Health Science, work-based credit
Medical Interventions	Sports Medicine, work-based credit
Medical Terminology	

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
Medical Billing and Coding #	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	Medical Interventions
Emergency Medical Services 2	Medical Terminology
Emergency Medical Services 3	Pharmacology for Medical Careers
Health Science 1	Practical Nursing, Phase 1
Health Science 2	Principles of Biomedical Sciences
Health Science 3	Health Science, work-based credit
Health Science Clinical Study	Sports Medicine, work-based credit
Human Body Systems	

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
5475	Event and Entertainment Management #
5476	Hospitality Management and Operations 1 Phasing Out July 2017
5477	Hospitality Management and Operations 2 Phasing Out July 2018
5422	Introduction to Culinary Arts
5478	<i>Introduction to Hospitality and Tourism Management</i>
5473	Lodging Management #
5474	Travel and Tourism Management #
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	Integrated Business Applications 1
Entrepreneurship	Introduction to Culinary Arts
Foods and Nutrition 1	<i>Introduction to Hospitality and Tourism Management</i>
Foods and Nutrition 2	Sports Nutrition 1
<i>Fundamentals of Web Page Design and Development</i>	Sports Nutrition 2
Hospitality Management and Operations 1	Hospitality and Tourism, work-based credit

Hospitality Management and Operations 520904

Required Courses:

Hospitality Management and Operations 1 – Phasing Out July 2017

Hospitality Management and Operations 2 – Phasing Out July 2018

Introduction to Hospitality and Tourism Management

Event and Entertainment Management #

Lodging Management #

Travel and Tourism Management#

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

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

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 (Refer to Page 83 for More Info)
5805	Fashion, Fabric, and Design 2
5812	Financial Fitness 1
5813	Financial Fitness 2
5824	Foods and Nutrition 1 (Refer to Page 83 for More Info)
5825	Foods and Nutrition 2
5830	Housing and Interiors 1 (Refer to Page 83 for More Info)
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 (Refer to Page 83 for More Info)
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	Barber/Master Hair Care
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
5321	<i>Advanced Computer Repair and Service</i>
5323	<i>Advanced Computer Operating Systems</i>
5372	Advanced Cyber Security
5311	<i>Advanced Networking</i>
5313	<i>Advanced Server Administration</i>
5033	Advanced Web Page Design and Development
5374	Computer Forensics
5322	<i>Computer Operating Systems</i>
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	<i>Computer Repair and Service</i>
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
5031	<i>Fundamentals of Web Page Design and Development</i>
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	<i>Networking Fundamentals</i>
5327	SAS Programming 1
5328	SAS Programming 2
5312	<i>Server Administration</i>
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 Repair and Service
Advanced Computer Repair and Service

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

Advanced Cyber Security	Database Design and Programming with/SQL
<i>Advanced Computer Operating Systems</i>	Database Programming with PL/SQL
<i>Advanced Networking</i>	Entrepreneurship
<i>Advanced Server Administration</i>	Exploring Computer Science
<i>Advanced Web Page Design and Development</i>	<i>Fundamentals of Web Page Design and Development</i>
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	<i>Networking Fundamentals</i>
Computer Programming with Java 1	Professional Leadership Development
Computer Programming with Java 2	SAS Programming 1
Computer Programming with Visual Basic 1	SAS Programming 2
Computer Programming with Visual Basic 2	<i>Server Administration</i>
<i>Computer Operating Systems</i>	Information Technology, work-based credit
Cyber Security Fundamentals	

Networking Systems 110901

Required Courses:

Networking Fundamentals
Advanced Networking

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

Advanced Cyber Security	<i>Computer Repair and Service</i>
<i>Advanced Computer Operating Systems</i>	Cyber Security Fundamentals
<i>Advanced Computer Repair and Service</i>	Database Programming with/SQL
<i>Advanced Server Administration</i>	Database Programming with PL/SQL
<i>Advanced Web Page Design and Development</i>	Entrepreneurship
Computer Forensics	Exploring Computer Science
<i>Computer Operating Systems</i>	<i>Fundamentals of Web Page Design and Development</i>
Computer Programming 1	Home Systems Technology
Computer Programming 2	Information Technology Foundations
Computer Programming with C++ 1	IT Fundamentals
Computer Programming with C++ 2	Professional and Leadership Development
Computer Programming with Java 1	SAS Programming 1
Computer Programming with Java 2	SAS Programming 2
Computer Programming with Visual Basic 1	<i>Server Administration</i>
Computer Programming with Visual Basic 2	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	GIS Technology 1
Advanced Cyber Security	GIS Technology 2
<i>Advanced Web Page Design and Development</i>	Information Technology Foundations
Computer Forensics	IT Fundamentals
Cyber Security Fundamentals	Java Fundamental and Java Programming
Entrepreneurship	Professional and Leadership Development
Exploring Computer Science	SAS Programming 1
Foundations of Animation	SAS Programming 2
<i>Fundamentals of Web Page Design and Development</i>	Information Technology, work-based credit
Game Design and Development	

Web and Digital Communications..... 110801

Required Courses:

- Fundamentals of Web Page Design and Development***
- Advanced Web Page Design and Development***

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
<i>Digital Technologies</i>	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	<i>Mechatronics 1-Electrical Components/Industrial Safety</i>
6211	<i>Mechatronics 2-Mechanical Components Electric Drives/Hand & Power Tool Op.</i>
6212	<i>Mechatronics 3-Electro Pneumatics and Hydraulics</i>
6213	<i>Mechatronics 4-Digital Fundamentals and Programmable Controllers</i>
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-Electrical Components/Industrial Safety
Mechatronics 2-Mechanical Components Electric Drives/Hand & Power Tool Op.
Mechatronics 3-Electro Pneumatics and Hydraulics
Mechatronics 4-Digital Fundamentals and Programmable Controllers
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-Electrical Components/Industrial Safety
Mechatronics 2-Mechanical Components Electric Drives/Hand & Power Tool Op.
Mechatronics 3-Electro Pneumatics and Hydraulics
Mechatronics 4-Digital Fundamentals and Programmable Controllers
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	<i>Fashion Marketing</i>
5421	Marketing
5431	Marketing Management
5423	Marketing Research
5430	Merchandising
5471	Professional Sales
5425	<i>Sports and Entertainment Marketing</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:

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

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

Merchandising 521802**Required Courses:**

Marketing
Merchandising

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

<i>Advanced Web Page Design and Development</i>	Image Editing 2
Advertising	Integrated Business Applications 1
Digital Desktop Publishing	Integrated Business Applications 2
Digital Multimedia	Marketing Research
Entrepreneurship	Professional and Leadership Development
Essential Communications	Professional Sales
<i>Fashion Marketing</i>	Social Media in Business
<i>Fundamentals of Web Page Design and Development</i>	<i>Sports and Entertainment Marketing</i>
Google Applications	Marketing, work-based credit
Image Editing 2	

Professional Sales 521804**Required Courses:**

Marketing
Professional Sales

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

Digital Desktop Publishing	Merchandising
Digital Media Marketing	Professional and Leadership Development
Entrepreneurship	Social Media in Business
Essential Communications	<i>Sports and Entertainment Marketing</i>
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
Marketing Research	

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
6380	Clean Energy - Systems 1
6381	Clean Energy - Applications 2
6382	Clean Energy - Strategies 3 #
6383	Clean Energy - Innovations 4 #
6370	<i>Core Engineering 1</i>
6371	<i>Core Engineering 2</i>
6375	Core Engineering 3 #
6376	Core Engineering 4 #
5757	Food Science and Dietetics 1
5758	Food Science and Dietetics 2
6040	Industrial Technology Education (Exploratory) 1
6041	Industrial Technology Education (Exploratory) 2
6372	Introduction to Computer Science (ICS) #
6373	Computer Science Applications (CSA) #
6377	Computer Science Principles (CSP) #
6056	PLTW-Aerospace Engineering
6057	PLTW-Biotechnical Engineering (Last school year to be offered)
6058	PLTW-Civil Engineering and Architecture
6053	PLTW-Computer Integrated Manufacturing
6096	PLTW-Computer Software Engineering (Last school year to be offered)
6052	PLTW-Digital Electronics
6054	PLTW-Engineering Design and Development
6374	PLTW-Environmental Sustainability (ES) #
6051	PLTW-Introduction to Engineering Design
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
149999	Clean Energy #
143501	Core Engineering #

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 Science Applications (CSA) #

PLTW-Computer Software Engineering
PLTW-Digital Electronics
PLTW-Engineering Design and Development

PLTW-Environmental Sustainability (ES) #

PLTW-Introduction to Computer Science (ICS) #

Pre-Engineering/Engineering & Industrial Technology Education, work-based credit

Clean Energy 149999

Clean Energy - Systems 1
Clean Energy - Applications 2

Clean Energy - Strategies 3 #

Clean Energy - Innovations 4 #

Science, Technology, Engineering, Mathematics, work-based credit

Core Engineering 143501

Core Engineering 1
Core Engineering 2

Core Engineering 3 #

Core Engineering 4 #

Science, Technology, Engineering, Mathematics, 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:

Foods and Nutrition 1
Foods and Nutrition 2
Food Processing
Sports Nutrition 1
Sports Nutrition 2

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

No High School Credit	
Course Code	Course Title
2841	Gateway to Technology
2840	Industrial Technology Education
2856	Introduction to Agriculture
2830	Introduction to Career Clusters
2857	Introduction to Family and Consumer Service Sciences 1
2858	Introduction to Family and Consumer Service Sciences 2

High School Credit (Not part of a CATE program)	
Course Code	Course Title
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.	
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)

High School Credit	
Course Code	Course Title
Level 1 of Family and Consumer Sciences courses can be offered in the 7 th and/or 8 th grade for one unit of high school credit. Courses must be taught by a licensed Family and Consumer Sciences teacher.	
5800	Child Development 1
5804	Fashion, Fabric and Design 1
5824	Foods and Nutrition 1
5808	Family and Consumer Sciences 1
5830	Housing and Interiors 1
5759	Sports Nutrition

Appendix D Nontraditional CATE Programs

Nontraditional Programs for Females	
CIP Code	Program Title
010205	Agricultural Mechanics and 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
470201	HVAC Technology
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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