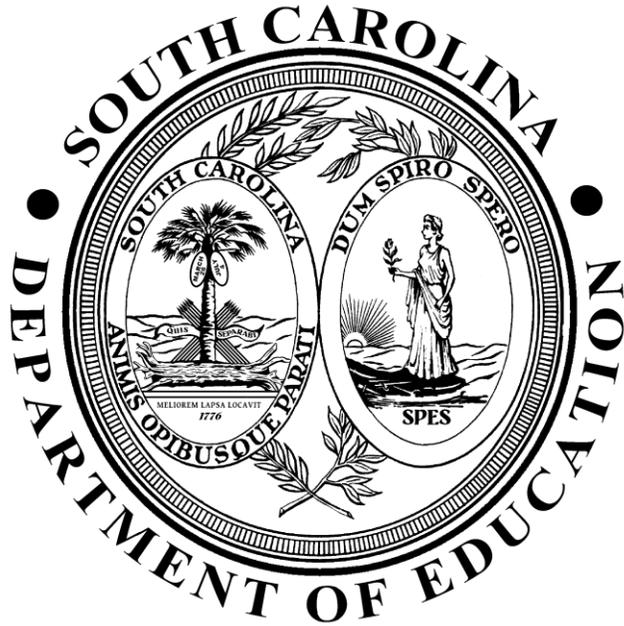


STATE OF SOUTH CAROLINA
DEPARTMENT OF EDUCATION

MOLLY M. SPEARMAN
STATE SUPERINTENDENT OF EDUCATION



Career and Technical Education (CTE)
Student Reporting Procedures Guide

Office of Career and Technical Education

School Year 2022–23

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Preface

This student reporting procedures guide is the official guide for PowerSchool data entry and reporting for the Office of Career and Technical Education (OCTE). Data from schools are collected annually to meet state and federal requirements.

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

Career and Technical Education (CTE) Data Reporting Deadlines

Placement Data Collection

April 20, 2023

CTE Data Collection

Fourth Quarterly Data Collection (QDC 4)

NOTICE

The activity/course codes specified in this document are also listed in two other SCDE 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: [\[SRPG\]](#)

Accessing the PowerSchool CTE Page

The intended audience for CTE data collection includes career center, school, and district staff responsible for entering, correcting, and assuring the accuracy of the CTE data.

To access the CTE Page:

1. Log into PowerSchool. Once on the PowerSchool home page, select a student.
2. Click on State/Province – SC in the student menu to retrieve links to the SC PowerSchool pages; then click on the CTE link.

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

Out-of-Workforce Individual

The term “out-of-workforce individual” 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

The data from this field is used to determine exclusions for accountability purposes.

Enter **I** if the student has an Individualized Education Program (IEP) 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 CTE 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 CTE 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 CTE program or from the school during the school year.

- **Data Entry** (dropdown box)
Blank = [default]
I = IEP
W = Withdrawn

Diploma/Credential Earned (View Only)

The data from this field is used for accountability purposes and indicates the type of diploma/credential the student earned. Data can only be entered via 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 CTE page in “View Only” mode.

- **Data Entry** (dropdown box)
Blank = [default]
E – Employability Credential (SC High School Credential)
F – State of SC Diploma
G – State of SC Diploma AND Employability Credential
H – State of SC Certificate*
N – District non-diploma document
Z – SC High School Diploma – Adult Ed
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.

CTE Programs

The program section of the CTE page identifies students participating in a state recognized CTE program. A state recognized CTE program must be composed of an approved sequence of career and technical education courses leading to a career goal and must include the minimum number of Carnegie units of credit required for the program.

If a student is a CTE Concentrator in two state recognized CTE programs, enter the Classification of Instructional Programs (CIP) code that is more closely aligned to the student's post-graduation plans in the first program section (i.e., CTE Concentrator 1, CIP Code 1, etc.)

CTE Concentrator 1/CTE Concentrator 2

A **CTE Concentrator** is a secondary student with an assigned CIP code who has completed at least two identified courses in a state recognized CTE program or program of study.

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

Concentrator Year 1/Concentrator Year 2

The **Concentrator Year** field indicates the semester and year in which the student became a concentrator. For school year 2022–23, the entry would be FA22 if the student became a concentrator in the fall of 2022 or SP23 if the student became a concentrator in the spring of 2023.

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

Note: PT22 should be selected for students who became concentrators prior to the 2021-22 school year.

CIP Code 1/CIP Code 2

CIP Codes identify specific CTE programs. Every student identified as a CTE 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 CTE Concentrators

- **Only** assign a CIP code to designate the **state recognized CTE program** in which a CTE Concentrator (defined above) completed *at least 2* courses. The local CTE program represented by the CIP code on the CTE page must offer a **sequence of approved courses** that provides the opportunity for students to complete the number of units required for the program. (See **CTE Clusters, Programs, and Courses** in Appendix C, pages **28 - 96**.)

- **Do not** use the CIP Code field for any purpose other than to designate a state recognized CTE program that offers students the approved sequence of CTE courses required to complete the number of units for the program.

CTE Completer 1/CTE Completer 2

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

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

Note: A CTE concentrator pursuing a 3-unit CTE program would be designated a Completer when the 3rd unit is earned.

A CTE concentrator pursuing a CTE program offering 4 units would be designated a Completer when the 4th unit is earned.

A CTE concentrator pursuing a CTE program offering 8 units would be designated a Completer when the 8th unit is earned.

Completion Year 1/Completion Year 2

The **Completion Year** field indicates the semester and the year in which the student completed the required units in a state recognized CTE program. For school year 2022–23, the entry would be FA22 if the student completed in the fall of 2022 or SP23 if the student completed in the spring of 2023.

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

CTE Program Location 1/CTE Program Location 2

The **CTE Program Location** field (formerly named *Remote School Number*) specifies the location where the CTE 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:** 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 and not at a different location.

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 CTE page, the student would be designated as a **CTE Concentrator** and assigned the **CIP Code 520905**, the **CTE Program Location** field would be populated with 0102995 (the SIDN of the career center).

Three-Unit Completer 1/Three-Unit Completer 2

The **Three-Unit Completer** fields indicate whether the student completed an approved three-unit CTE program by earning only three units. This field must be populated if a student is coded as a completer in an approved three-unit program. The list of programs that have been approved with a three-unit minimum can be found in Appendix C.

Select “Y” from the dropdown list if the student completed an approved three-unit program by earning *only* three units. Select “N” from the dropdown list if the student completed an approved three-unit program by earning more than three units.

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

Note: This field will be discontinued in the 2023-24 school year.

Certifications

The certification section of the CTE Page allows the entry of as many certifications as needed. Select “New” in the lower right area to enter new certification data, and select the applicable *Save* button to store the new information that has been entered. Data in the Certification Administered, Certification Passed, Certification Admin Year, and Certification Owner fields will be displayed in table view and can be edited or deleted by selecting the appropriate button. Data previously entered in the Certification and Certification Year fields have been stored in “View Only” mode and cannot be edited. The list of certifications and descriptions can be found in **Appendix E**.

Certification Administered fields should be used to identify national and state certifications and credential examinations administered to students regardless of the outcome (i.e., Passed or Failed). Multiple attempts of the same exam should be recorded in the Certification Administered fields until the exam is passed. For example, if a student takes the ServSafe® Manager exam twice but does not pass either attempt, then takes the exam a third time and passes the exam, data should be entered for the three attempts.

- **Data Entry** (dropdown box): appropriate certification(s) administered for CTE students

Certification Passed fields indicate the passage of the respective certification administered.

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

Certification Admin Year fields should be used to indicate the semester and year in which the student took examinations and/or received national and state certifications and credentials. For school year 2022–23, the entry would be FA22 if the examination was taken in the fall of 2022 or SP23 for spring 2023.

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

Certification Admin Location fields (formerly named *Certification Owner*) indicate the career center or high school responsible for the administration of the certification. Entry should be made in this field only if the certification was administered at location other than the student’s high school.

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

Certification fields include data entered prior to the creation of the current certification fields and have been stored in “View Only” mode.

Certification Year includes the semester and year associated with the certification previously entered in the old Certification field and is displayed in “View Only” mode.

CTSO Membership 1/CTSO Membership 2

Members of Career and Technical Student Organizations (CTSOs) have opportunities to enhance their professional, leadership, and technical skills through intra/co-curricular programs and services. The **CTSO Membership** fields should be used to identify the CTSO in which the student holds membership.

- **Data Entry** (dropdown box)
 - Blank = [default]
 - 01 – BPA
 - 02 – DECA
 - 03 – FBLA
 - 04 – FCCLA
 - 05 – FFA
 - 06 – Educators Rising
 - 07 – HOSA
 - 08 – SkillsUSA
 - 09 – TSA
 - 10 – NSBE
 - 11 – FIRST
 - 12 – Vex Robotics

CTE Placement Code

School districts and career centers are required by South Carolina law (S.C. Code Ann. § 59-53-160) and by State Board of Education Regulation 43-234 to survey their CTE completers **ten months after graduation** to determine their placement status with regard to employment, postsecondary education, or military service. Federal requirements include the addition of placement status related to advance training, participation in a National and Community Service Act service program, and Peace Corps volunteerism. Placement data are used to assess the placement indicator required by Perkins V.

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. **Placement status is not the same as post-graduation plans.**

- **Data Entry** (dropdown box): appropriate CTE 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 – *Deleted*
 - H – Advanced Training
 - I – National Community Service
 - J – Peace Corps

Placement Information Necessary for Verification

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

Placement Employer

Entry: name of the business where the CTE completer is employed ten months after graduation

Placement Phone

Entry: phone number of the CTE completer's place of employment ten months after graduation

Placement Job Title

Entry: CTE completer's job title at the place of employment ten months after graduation

Placement Supervisor Name

Entry: name of the CTE completer's supervisor at the place of employment ten months after graduation

Placement Start Date

Entry: CTE completer's start date at the place of employment ten months after graduation

- For students placed in **higher education (C)**

Placement Higher Ed Name

Entry: name of the postsecondary institution in which the CTE completer is enrolled ten months after graduation

Placement Higher Ed Program

Entry: name of the program at the postsecondary institution in which the CTE completer is enrolled ten months after graduation

- For students placed in **military (D)**

Placement Military Branch

Entry: name of the military branch in which the CTE completer is serving ten months after graduation

Placement Military Training

Entry: type of military training received from the military branch in which the CTE completer is serving ten months after graduation

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, 50 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 CTE 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)

Individuals with Disabilities

The data for this special population will be extracted from the **Instructional Setting** field located on the SC Student Information Page. The Instructional Setting field indicates that the student is currently receiving special education services and has an IEP in effect.

English Learners

The data for this special population will be extracted from the **English Proficiency Levels (PL)** field located on the SC Student Information Page. The English Proficiency Levels (PL) field indicates the student's proficiency level in English.

Homeless Individuals

The data for this special population will be extracted from the **Primary Nighttime Residence** field located on the Homeless Student Information custom screen. The Primary Nighttime Residence field is used to identify students experiencing homelessness.

Youth in Foster Care

The data for this special population will be extracted from the **Foster Home** field located on the SC Student Information Page. The Foster Home field indicates whether or not a student resided in a foster home for the current school year.

Youth with Parent in Active Military

The data for this special population will be extracted from the **Parent Military Status** field located on the SC Student Information Page. The Parent Military Status field indicates student's parent's military status.

Migrant

The data for this special population will be extracted from the **Migrant** field located on the SC 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 composed 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/Credential Earned

The **Diploma/Credential Earned** field indicates if the student received a state diploma and is located on the SC Student Information page.

PowerSchool Scheduling Sections Page

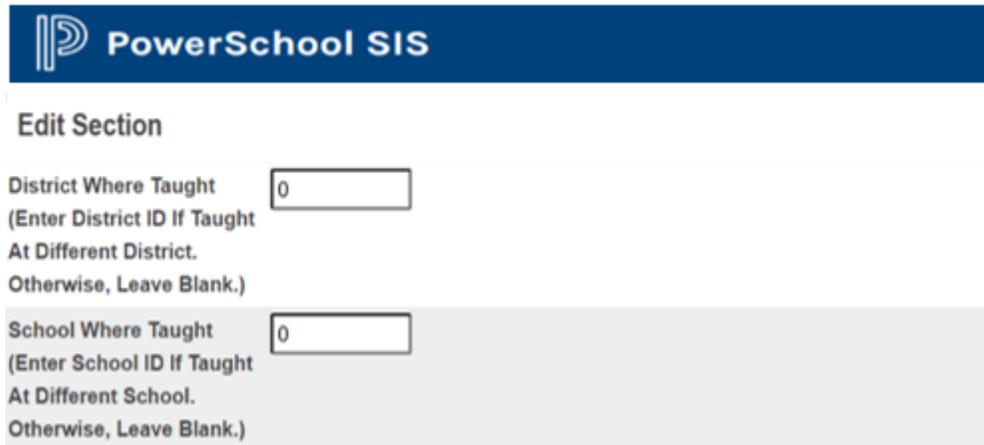
District Where Taught and School Where Taught

All sections of each CTE 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) identified. Accurate SIDN numbers will allow the career center or other school to be identified as teaching the 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' form in PowerSchool SIS. It features two input fields: 'District Where Taught' and 'School Where Taught'. Both fields contain the number '0'. The 'District Where Taught' field has a label that reads '(Enter District ID If Taught At Different District. Otherwise, Leave Blank.)'. The 'School Where Taught' field has a label that reads '(Enter School ID If Taught At Different School. Otherwise, Leave Blank.)'. The form is set against a dark blue header with the PowerSchool SIS logo.

Data Collection and Submission Notes

- Ensure that the appropriate **CIP Code (s)** has been selected from the drop-down box and the **Concentrator** field (s) is correctly coded. A listing of CIP Codes can be found in Appendix C.
- Ensure that the **Completer** field (s) is correctly coded.
- Ensure all certifications/credentials have been entered and correctly coded.
- Ensure that the **Diploma/Credential Earned** field has been completed on the South Carolina Student Information Page.
- Ensure that the correct placement code has been entered in the **CTE Placement Code** field when doing student placement follow-up 10 months after graduation.
- Ensure that the seven-digit school identification number (SIDN) is correctly entered in the **CTE Program Location** field to identify location of the CTE program (if not the student's home high school).
- Ensure that all sections of each CTE 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** field 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 course(s). Also, make sure each CTE course has been assigned an approved course code from the listing in Appendix C.

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

1. Verify final grades before submitting data to the SCDE.
2. Perform a data record check while you are submitting the data to the SCDE to ensure that your datasets are complete.
3. Submit your CTE data on or before the deadlines:

Placement Data Collection

April 20, 2023

CTE Data Collection

Fourth Quarterly Data Collection (QDC 4)

Please note that the ability to submit data to the SCDE will not be available after these dates.

PowerSchool Searches

The following searches have been created with assistance from the Office of Research and Data Analysis, PowerSchool Team 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 CTE 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 CTE Data

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

PowerSchool SIS

Start Page > System Administrator > Page and Data Management > Quick Export

Quick Export

Export the 10934 selected students

S_SC_STU_CATE_X.CATE_ConcetrInd
S_SC_STU_CATE_X.CATE_CIPCode
S_SC_STU_CATE_X.CATE_CompleterInd
S_SC_STU_CATE_X.CATE_RemoteSchCode
S_SC_STU_CATE_X.CATE_YrCompleted

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. For example, use the following statement to select students with a “Y” in the Concentrator 2 field: `S_SC_STU_CATE_X.CATE_ConcetrInd=Y.`

Examples:

1. Concentrator/CIP Code Export Layout

```
S_SC_STU_CATE_X.CATE_ConcetrInd  
S_SC_STU_CATE_X.CATE_CIPCode  
S_SC_STU_CATE_X.CATE_RemoteSchCode  
S_SC_STU_CATE_X.CATE_ConcetrInd2  
S_SC_STU_CATE_X.CATE_CIPCode2  
S_SC_STU_CATE_X.CATE_RemoteSchCode2
```

2. Graduation Export

(Initial filter “Grade_Level =12”)
SchoolID
Last_Name
First_Name
Middle_Name
Grade_Level
S_SC_STU_X.DiplomaEarnCode

3. Program Completers Export

(Initial filter “S_SC_STU_CATE_X.CATE_CompleterInd=Y” or
“S_SC_STU_CATE_X.CATE_CompleterInd2=Y”))

S_SC_STU_CATE_X.CATE_CIPCode
S_SC_STU_CATE_X.CATE_CompleterInd
S_SC_STU_CATE_X.CATE_YrCompleted
S_SC_STU_CATE_X.CATE_RemoteSchCode
S_SC_STU_CATE_X.CATE_Units
S_SC_STU_CATE_X.CATE_CIPCode2
S_SC_STU_CATE_X.CATE_CompleterInd2
S_SC_STU_CATE_X.CATE_YrCompleted2
S_SC_STU_CATE_X.CATE_RemoteSchCode2
S_SC_STU_CATE_X.CATE_Units2

4. CTE Placement Export

(Initial filter “Grade_Level=12”; “S_SC_STU_CATE_X.CATE_CompleterInd=Y” or
“S_SC_STU_CATE_X.CATE_CompleterInd2=Y”))

SchoolID
Last_Name
First_Name
Middle_Name
Grade_Level
S_SC_STU_CATE_X.CATE_CIPCode
S_SC_STU_CATE_X.CATE_CompleterInd
S_SC_STU_CATE_X.CATE_YrCompleted
S_SC_STU_CATE_X.CATE_RemoteSchCode
S_SC_STU_CATE_X.CATE_CIPCode2
S_SC_STU_CATE_X.CATE_CompleterInd2
S_SC_STU_CATE_X.CATE_YrCompleted2
S_SC_STU_CATE_X.CATE_RemoteSchCode2
S_SC_STU_X.DiplomaEarnCode
S_SC_STU_CATE_X.PlaceLevelCode

5. Special Populations Export

SchoolID
Last_Name
First_Name
Middle_Name
Grade_Level
S_SC_STU_CATE_X.CATE_CIPCode
S_SC_STU_CATE_X.CATE_SingleParentInd
S_SC_STU_CATE_X.CATE_DisplHomeMakerInd
S_SC_STU_X.Engl_Prof
S_SC_STU_X.Migrant

6. Certification Export

As of School Year 2019-2020 students no longer have a limit on certifications earned. Please be advised that with the possibility for limitless certification entries these data are no longer available for PowerSchool searches using the “Quick Export” tool described on page 14 of this document. Please use the “Data Export Manager” tool for searches when working with these fields. A quick tutorial of how to use that tool is provided below:

- Go to the PowerSchool SIS homepage:
- Find the ***Special Functions*** section on the left side of the page and select **Importing and Exporting**.
- Scroll down to the ***Exporting*** section and click ***Data Export Manager***.
- From the ***Category*** drop down menu select ***Database Extensions***.
- From the ***Export From*** drop down menu select “***S_SC_STU_CATE_C.***” Please be sure to select this table and not “S_SC_STU_CATE_X” if you are trying to view CTE Certifications for school year 2019-2020 and beyond. The “X” denoted table is no longer the correct source for certification data.
- Select which fields you would like to include. When finished click “Next” on the bottom right. Please note that only fields listed under this table name (i.e. S_SC_STU_CATE_C) contain data specific to the Certifications table, including certification year, passed, and administered.
- Proceed to the next section to select any filters needed in the export. A filter can be placed on thing such as students or columns. If you wish to filter by column note that you can only filter by columns you previously selected in the prior menu. Click “Next” when complete.
- Finally, select a format for Export. You can change the file name to support CSV or XLSX if the default format of TXT is not preferred. Be sure to set your delimiters correctly depending on the type of file format you select.
- When complete you can click “Export” and the data set will be downloaded on your PC in the format you selected.

If you are seeking certification data for any school year prior to SY 19-20, please utilize the Quick Export function as previously described in this guide. You should select the following pathways and fields as follows:

SchoolID
 Last_Name
 First_Name
 S_SC_STU_CATE_X.Cert_Admin1
 S_SC_STU_CATE_X.Cert_Passed1
 S_SC_STU_CATE_X.Cert_Year1

PowerSchool DDE Tool

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

CTE 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 |
|--------|------------------|
| 2700 | 2017-2018 |
| 2800 | 2018-2019 |
| 2900 | 2019-2020 |
| 3000 | 2020-2021 |
| 3100 | 2021-2022 |
| 3200 | 2022-2023 |

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_Number

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 |
|--------|------------------|
| 2700 | 2017-2018 |
| 2800 | 2018-2019 |
| 2900 | 2019-2020 |
| 3000 | 2020-2021 |
| 3100 | 2021-2022 |
| 3200 | 2022-2023 |

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=5350@

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 |
|--------|------------------|
| 2700 | 2017-2018 |
| 2800 | 2018-2019 |
| 2900 | 2019-2020 |
| 3000 | 2020-2021 |
| 3100 | 2021-2022 |
| 3200 | 2022-2023 |

2. **Search StoredGrades Criteria:**
TermID >= XXXX
Course_Number=5030@

Export Records layout:

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

3. **Search StoredGrades Criteria:**
TermID >= XXXX
Course_Number=5122@

Export Records layout:

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

4. **Search StoredGrades Criteria:**
TermID >= XXXX
Course_Number=5400@

Export Records layout:

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

| TermID | Year Designation |
|--------|------------------|
| 2700 | 2017-2018 |
| 2800 | 2018-2019 |
| 2900 | 2019-2020 |
| 3000 | 2020-2021 |
| 3100 | 2021-2022 |
| 3200 | 2022-2023 |

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 Stored Grades 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

Appendix A

Perkins Accountability Indicators

Key Terms

The federal Strengthening Career and Technical Education for the 21st Century Act (Perkins V) 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 CTE course.
- **Concentrator:** A concentrator is a secondary student with an assigned CIP code who has completed at least two identified courses in a state recognized CTE program or program of study. A state recognized career and technical education program must be composed of an approved sequence of career and technical education courses leading to a career goal and must include a minimum of **3** Carnegie units of credit.
- **Completer:** A completer is a concentrator who has earned **all** of the required units in a state recognized CTE program.

Measurement Definitions

1S1 Four-Year Graduation Rate

CTE concentrators who graduate high school, as measured by the four-year adjusted cohort graduation rate (defined in section 8101 of the Elementary and Secondary Education Act of 1965)

► Formula

Numerator = total number of CTE concentrators who, in the reporting year, were included as graduated, as measured by the four-year adjusted cohort graduation rate

Denominator = total number of CTE concentrators who, in the reporting year, were included in the State’s computation of its graduation rate

2S1 Academic Proficiency in Reading/Language Arts

CTE concentrator proficiency in the challenging State academic standards adopted by the State under section 1111(b)(1) of the Elementary and Secondary Education Act of 1965, as measured by the academic assessments in reading/language arts as described in section 1111(b)(2) of such Act

▶ Formula

Numerator = total number of 12th-grade concentrators in the reporting year who scored proficient on the English language arts assessment

Denominator = total number of 12th-grade concentrators in the reporting year who were included in the State's computation for high school academic attainment in English language arts

2S2 Academic Proficiency in Mathematics

CTE concentrator proficiency in the challenging State academic standards adopted by the State under section 1111(b)(1) of the Elementary and Secondary Education Act of 1965, as measured by the academic assessments in mathematics as described in section 1111(b)(2) of such Act

▶ Formula

Numerator = total number of 12th-grade concentrators in the reporting year who scored proficient on the mathematics assessment

Denominator = total number of 12th-grade concentrators in the reporting year who were included in the State's computation for high school academic attainment in mathematics

2S3 Academic Proficiency in Science

CTE concentrator proficiency in the challenging State academic standards adopted by the State under section 1111(b)(1) of the Elementary and Secondary Education Act of 1965, as measured by the academic assessments in science as described in section 1111(b)(2) of such Act

▶ Formula

Numerator = total number of 12th-grade concentrators in the reporting year who scored proficient on the science assessment

Denominator = total number of 12th-grade concentrators in the reporting year who were included in the State's computation for high school academic attainment in science

3S1 Placement

Concentrators who completed a CTE program and are in postsecondary education, advanced training, military service, or a National and Community Service Act service program, are Peace Corps volunteers, or are employed 10 months after graduation

▶ **Formula**

Numerator = total number of concentrators who completed a CTE program and who are in postsecondary education, advanced training, military service, or a National and Community Service Act service program, are Peace Corps volunteers, or are employed 10 months after graduation

Denominator = total number of concentrators who completed a CTE program and are available for placement ten months after graduation

4S1 Non-Traditional Program Enrollment

CTE concentrators in career and technical education programs and programs of study that lead to non-traditional fields

▶ **Formula**

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

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

5S1 Program Quality – Attained Recognized Postsecondary Credential

CTE concentrators graduating from high school having attained a recognized postsecondary credential

▶ **Formula**

Numerator = total number of concentrators graduating from high school having attained an industry certification/credential

Denominator = total number of concentrators graduating from high school

Appendix B

Report Card Accountability Measures-Career Readiness

A student is deemed “career-ready” if the student meets one of the following criteria:

- Is a CTE completer and earns a national industry credential or a state industry credential as determined by the business community. [[CCRSY20SY21](#)]
- Earns a Silver, Gold or Platinum National Career Readiness Certificate on the WorkKeys exam or Silver, Gold or Platinum Credential on the WIN Ready to Work Career Assessment.
- Earns a scale score of 31 or higher on the ASVAB.
- Successfully completes a state-approved work-based learning exit evaluation from an employer.

The work-based learning program must include:

- Training agreement which defines a combination of objectives and a minimum of 40 practical experience hours or the highest number of hours required by industry defined competencies in a career pathway;
 - Be aligned with state IGP career clusters;
 - Include an industry evaluation that is created from the training agreement, which includes the world-class skills from the Profile of the South Carolina Graduate; and
 - The student must have earned a minimum of one unit in the pathway related to the work-based placement or completed a personal pathway of study.
- Is identified as a student with a disability who successfully completes the South Carolina High School Employability Credential according to their Individualized Education Plan (IEP). [[SESP](#)]

Required Documentation

The school or career center must maintain all required documentation to verify the criteria listed above upon audit by the SCDE. The school or career center should maintain documentation for at least two years after the student graduates from high school. [[WBL2022](#)]

Reporting Procedures: To ensure consistency in reporting, all districts and school/career centers are required to follow the requirement to report all qualifying WBL experiences for accountability in Power School on the WBL Page.

Note: These measures are current as of April 2022 and are subject to change. Please refer to School Report Cards page on the [Education Oversight Committee](#) Web site for the most recent information.

Appendix C

CTE 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 CTE 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 16 clusters represent all career possibilities:

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

All descriptions of cluster content in this section are taken with minor editorial emendations from the Advance CTE Web page. Please refer to [\[CAREERTECH\]](#) for additional information.

Note: The bolded courses followed by the numbers symbol (#) means a new course offering. The *italicized* courses indicate a course name change.

CTE 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 CTE courses and codes can be found beginning on page 28 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 CTE courses with the exception of work-based credit courses. Courses with Local Board Approved (LBA) in the title are not valid CTE course codes for state and federal accountability and funding purposes.

New Innovative Courses

- Unique courses representing emerging areas of study that are not included in the CTE state approved course offerings. The OCTE approval is required before a CTE course code is assigned. The new 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 assigned course code.

[New Innovative CTE Course Application SY 2023-24](#)

Renewal Innovative Courses

- A continuation of approved unique courses representing emerging areas of study that are not included in the CTE state approved course offerings. Approval will be granted for a maximum of 5 years. After the period of 5 years, the course should be reviewed for state approval status or local board approval status.

[Renewal Innovative CTE Course Application SY 2023-24](#)

Concentrator Courses

- All programs require the completion of at least two identified courses in a state recognized CTE program with the exception of Barber/Master Hair Care and Cosmetology, which require three courses. If the courses are not sequential, it does not matter what order they are taken in (**).

[2022-23 Concentrator Requirements](#)

CTE Internship, Work-Based Credit Learning Courses*

- An internship that is a structured, work-based credit bearing course that is taken as a fourth unit in a Career and Technical Education (CTE) Classification of Instructional Programs (CIP)-coded program for a CTE student. Each work-based learning (credit-bearing) course has an assigned CTE

course code, and guidelines must be followed to award one Carnegie unit of credit upon successful completion of the course. [WBLM]

***This course will not count as a third unit in any of the three-unit completer pathways.**

CTE Program

- A state recognized CTE program must be composed of an approved sequence of career and technical education courses leading to a career goal. Students must earn **all** of the required units of credit to be considered CTE program completers.

CIP Code

- The six-digit CIP codes designate the specific CTE programs and are used for federal reporting and assessing the federal Perkins indicators. Every student identified as a CTE concentrator must be assigned a CIP code approved by the OCTE. **CIP codes are *not* the same as course codes.**

Approved Three-Unit Programs

- The OCTE has carefully reviewed the approved sequence of course for each state recognized CTE program to determine which programs can be completed with three units while ensuring sufficient time for competency mastery, as well as adequate preparation for certification exams and assessments. Courses that can be used to complete three-unit programs are denoted in Appendix C with an asterisk (*).

Approved Three-Unit Programs Table

| Cluster | CIP Code | Program |
|---|---|---|
| Arts, A/V Technology & Communications | 500407 | Fashion Design and Apparel Construction |
| | 500408 | Interior Design |
| Business Management & Administration | 520401 | Administrative Services |
| | 521206 | Business Information Management |
| | 520201 | General Management |
| | 521001 | Human Resources Management |
| | 520204 | Operations Management |
| Finance | 520801 | Academy of Finance |
| | 520301 | Accounting |
| | 520803 | Banking Services |
| | 520804 | Business Finance |
| | 521701 | Insurance |
| | 520807 | Securities and Investment |
| | Government & Public Administration | 440501 |
| 440401 | | Public Management and Administration |
| Health Science | 260102 | Biomedical Sciences – PLTW |
| | 510999 | EMS |
| | 510000 | Health Science |
| | 512208 | Public Health # |
| | 310505 | Sports Medicine |
| Hospitality & Tourism | 520905 | Culinary Arts Management |
| | 520904 | Hospitality and Tourism Management |
| Human Services | 190101 | Family and Consumer Sciences |
| | 120410 | Nail Technology |
| Information Technology | 500411 | Game and Interactive Media Design |
| | 151202 | Information Support and Services |
| | 110901 | Networking Systems |
| | 110201 | Programming and Software Development |
| | 110801 | Web and Digital Communications |
| Law, Public Safety, Corrections & Security | 430203 | Emergency & Fire Management Services |
| | 430107 | Law Enforcement Services |
| Marketing | 090903 | Marketing Communications |
| | 521401 | Marketing Management |
| | 521402 | Marketing Analytics |
| | 521802 | Merchandising |
| Science, Technology, Engineering & Mathematics | 190501 | Food Science |

Agriculture, Food & Natural Resources Cluster

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 for Agriculture, Food & Natural Resources Cluster |
|-------------|--|
| 5600 | Agribusiness and Marketing |
| 5602 | Outdoor Recreation |
| 5603 | Animal Science |
| 5604 | Agricultural Mechanics and Technology for the Workplace 1 |
| 5605 | Agricultural Mechanics and Technology for the Workplace 2 |
| 5608 | Animal Science for the Workplace 1 |
| 5609 | Animal Science for the Workplace 2 |
| 5610 | Agricultural Power Mechanics |
| 5611 | Agricultural Structural Mechanics |
| 5612 | Small Animal Care |
| 5613 | Introduction to Veterinary Science |
| 5614 | Agricultural Crop Production and Management |
| 5620 | Agricultural Science and Technology for the Workplace |
| 5621 | Equipment Operation and Maintenance |
| 5624 | Agricultural Science and Technology |
| 5626 | Environmental and Natural Resources Management |
| 5627 | Soil and Water Conservation |
| 5628 | Environmental and Natural Resources Management for the Workplace 1 |
| 5629 | Environmental and Natural Resources Management for the Workplace 2 |
| 5630 | Soils and Soilless Research |
| 5634 | Floriculture |
| 5642 | Forestry |
| 5646 | Cattle Production |
| 5647 | Farm Animal Production |
| 5650 | Introduction to Horticulture |
| 5652 | Horticulture for the Workplace 1 |
| 5653 | Horticulture for the Workplace 2 |
| 5654 | Turf and Lawn Management |
| 5655 | Sports Turf Management |
| 5657 | Food Processing |
| 5660 | Agricultural Mechanics and Technology |
| 5663 | Aquaculture |
| 5667 | Golf Course Technology |
| 5670 | Landscape Technology |
| 5672 | Nursery, Greenhouse, and Garden Center Technology |
| 5674 | Wildlife Management |
| 5679 | Equine Science |
| 5691 | Agricultural and Biosystems Science |
| 5692 | Biosystems Mechanics and Engineering |

| Course Code | Course Title for Agriculture, Food & Natural Resources Cluster |
|-------------|---|
| 5693 | Biosystems Technology Career Development 1 |
| 5694 | Biosystems Technology Career Development 2 |
| 5695 | Biosystems Technology 3 |
| 5696 | Biosystems Technology 4 |
| 5690 | Agriculture, Food & Natural Resources Internship, work-based credit |
| 5699 | Agriculture, Food & Natural Resources, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE 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 CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

*All of the Agriculture, Food, and Natural Resources CIP-coded programs require a minimum of four (4) Carnegie units. The concentrator course options are identified with **.*

Agricultural Mechanics and Technology

010205

Agricultural and Biosystems Science** and Biosystems Mechanics and Engineering**

Or

Agricultural Mechanics and Technology** and Agricultural Power Mechanics**

Or

Agricultural Mechanics and Technology for the Workplace 1** and Agricultural Mechanics and Technology for the Workplace 2**

Or

Agricultural Science and Technology** and Agricultural Mechanics and Technology**

Or

Biosystems Mechanics and Engineering** and Agricultural Structural Mechanics or Equipment Operation and Maintenance**

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

Agribusiness and Marketing

Agricultural Science and Technology for the Workplace

Soil and Water Conservation

Agriculture, Food & Natural Resources Internship, work-based credit

Biosystems Engineering Technology

140301

Agricultural and Biosystems Science** and Biosystems Mechanics and Engineering**

Or

Biosystems Technology Career Development 1** and Biosystems Technology Career Development 2**

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

Biosystems Technology 3

Biosystems Technology 4

Agriculture, Food and Natural Resources Internship, work-based credit

Environmental and Natural Resources Management

030101

Agricultural and Biosystems Science** or Agricultural Science and Technology** and Environmental and Natural Resources Management**

Or

Environmental and Natural Resources Management for the Workplace 1** and Environmental and Natural Resources Management for the Workplace 2**

Or

Environmental and Natural Resources Management** and Forestry** or Soil and Water Conservation** or Wildlife Management**

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

Agricultural Mechanics and Technology

Agricultural Science and Technology for the Workplace

Aquaculture

Biosystems Mechanics and Engineering

Equipment Operation and Maintenance

Outdoor Recreation

Soils and Soilless Research

Agriculture, Food & Natural Resources Internship, work-based credit

Horticulture

010601

Agricultural and Biosystems Science** or Agricultural Science and Technology** and Introduction to Horticulture**

Or

Horticulture for the Workplace 1** and Horticulture for the Workplace 2**

Or

Introduction to Horticulture** and Floriculture** or Golf Course Technology** or Landscape Technology** or Nursery, Greenhouse, and Garden Center Technology** or Sports Turf Management** or Turf and Lawn Management**

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

Agribusiness and Marketing
Agricultural Mechanics and Technology
Agricultural Science and Technology for the Workplace
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance
Soils and Soilless Research
Agriculture, Food & Natural Resources Internship, work-based credit

Plant and Animal Systems

011101

Agricultural and Biosystems Science** or Agricultural Science and Technology** or Agricultural Science and Technology for the Workplace** and Agricultural Crop Production and Management** or Animal Science** or Aquaculture** or Cattle Production or Equine Science** or Farm Animal Production** or Food Processing** or Introduction to Veterinary Science** or Small Animal Care** or Soil and Water Conservation**

Or

Animal Science for the Workplace 1** and Animal Science for the Workplace 2**

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

Marketing
Agricultural Mechanics and Technology
Biosystems Mechanics and Engineering
Equipment Operation and Maintenance
Soils and Soilless Research
Agriculture, Food & Natural Resources Internship, work-based credit

Architecture & Construction Cluster

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

| Course Code | Course Title for Architecture & Construction Cluster |
|-------------|---|
| 5330 | <i>Home Smart Systems Technology</i> |
| 6001 | Introduction to Construction |
| 6003 | HVAC Technology 1 |
| 6004 | HVAC Technology 2 |
| 6005 | HVAC Technology 3 |
| 6006 | HVAC Technology 4 |
| 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 |
| 6250 | Masonry 1 |
| 6251 | Masonry 2 |
| 6252 | Masonry 3 |
| 6253 | Masonry 4 |
| 6280 | Plumbing 1 |
| 6281 | Plumbing 2 |
| 6282 | Plumbing 3 |
| 6283 | Plumbing 4 |
| 6287 | Electricity 1 |
| 6288 | Electricity 2 |
| 6289 | Electricity 3 |
| 6290 | Electricity 4 |
| 6305 | Electrical Line Worker 1 |
| 6306 | Electrical Line Worker 2 |
| 6307 | Electrical Line Worker 3 |
| 6308 | Electrical Line Worker 4 |
| 6690 | Architecture & Construction Internship, work-based credit |
| 6299 | Architecture & Construction, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 460000 | Building Construction Cluster |
| 480703 | Cabinetmaking |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|-----------------|--|
| 460201 | Carpentry |
| 460303 | Electrical Line Worker Technology |
| 460301 | Electricity |
| 470201 | HVAC Technology |
| 460101 | Masonry |
| 460503 | Plumbing |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

*All of the Architecture and Construction CIP-coded programs require a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

Building Construction 460000

- Introduction to Construction
- Building Construction Cluster 1**
- Building Construction Cluster 2**
- Building Construction Cluster 3
- Building Construction Cluster 4
- Architecture & Construction Internship, work-based credit

Cabinetmaking 480703

- Introduction to Construction
- Cabinetmaking 1**
- Cabinetmaking 2**
- Cabinetmaking 3
- Cabinetmaking 4
- Architecture & Construction Internship, work-based credit

Carpentry 460201

- Introduction to Construction
- Carpentry 1**
- Carpentry 2**
- Carpentry 3
- Carpentry 4
- Architecture & Construction Internship, work-based credit

Electrical Line Worker Technology 460303

Electrical Line Worker 1**
Electrical Line Worker 2**
Electrical Line Worker 3
Electrical Line Worker 4
Architecture & Construction Internship, work-based credit

Electricity 460301

Introduction to Construction
Electricity 1**
Electricity 2**
Electricity 3
Electricity 4
Architecture & Construction Internship, work-based credit

HVAC Technology 470201

Introduction to Construction
HVAC Technology 1**
HVAC Technology 2**
HVAC Technology 3
HVAC Technology 4
Architecture & Construction Internship, work-based credit

Masonry 460101

Introduction to Construction
Masonry 1**
Masonry 2**
Masonry 3
Masonry 4
Architecture & Construction Internship, work-based credit

Plumbing 460503

Introduction to Construction
Plumbing 1**
Plumbing 2**
Plumbing 3
Plumbing 4
Architecture & Construction Internship, work-based credit

Arts, A/V Technology & Communications Cluster

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

| Course Code | Course Title for Arts, A/V Technology, & Communications Cluster |
|-------------|---|
| 5205 | Introduction to Graphic Communications |
| 5455 | Interior Design 1 |
| 5456 | Interior Design 2 |
| 5710 | Fashion Design and Apparel Construction 1 |
| 5711 | Fashion Design and Apparel Construction 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 |
| 6124 | Media Technology 1 |
| 6125 | Media Technology 2 |
| 6126 | Media Technology 3 |
| 6127 | Media Technology 4 |
| 6170 | Architectural Design 1 |
| 6171 | Architectural Design 2 |
| 6172 | Mechanical Design 1 |
| 6173 | Mechanical Design 2 |
| 6200 | Graphic Communications 1 |
| 6201 | Graphic Communications 2 |
| 6202 | Graphic Communications 3 |
| 6203 | Graphic Communications 4 |
| 5290 | Arts, A/V Technology & Communications Internship, work-based credit |
| 5299 | Arts, A/V Technology & Communications, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE 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 CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program*.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Architecture/Mechanical Design**151301**

*The Architecture/Mechanical Design CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Architectural Design 1**

Architectural Design 2**

Or

Mechanical Design 1**

Mechanical Design 2**

Arts, Audio-Video Technology & Communications Internship, work-based credit

Digital Art and Design**500402**

*The Digital Art and Design CIP-coded program requires a minimum of four Carnegie (4) units. **The concentrator courses are identified with **.***

Digital Art and Design 1**

Digital Art and Design 2**

Digital Art and Design 3

Digital Art and Design 4

Arts, Audio-Video Technology & Communications Internship, work-based credit

Fashion Design and Apparel Construction**500407**

*The Fashion Design and Apparel Construction CIP-coded program requires a minimum of three (3) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

Fashion Design and Apparel Construction 1**

Fashion Design and Apparel Construction 2**

| |
|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Advanced Web Page Design |
| Business Principles and Management |
| Entrepreneurship* |
| Family and Consumer Sciences 1* |
| Family and Consumer Sciences 2 |
| Fashion, Fabric, and Design 1* |
| Fashion, Fabric, and Design 2 |
| Fashion Marketing* |
| IT Fundamentals |
| Marketing Management* |
| Mechanical Design 1* |
| Arts, Audio-Video Technology & Communications Internship, work-based credit |

Graphic Communications

100301

*The Graphic Communication CIP-coded program requires a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

Graphic Communications 1**

Graphic Communications 2**

Graphic Communications 3

Graphic Communications 4

Arts, A/V Technology & Communications Internship, work-based credit

Interior Design

500408

*The Interior Design CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

Interior Design 1**

Interior Design 2**

| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
|--|
|--|

| |
|--|
| Advanced Web Page Design and Development |
|--|

| |
|------------------------|
| Architectural Design 1 |
|------------------------|

| |
|------------------------------------|
| Business Principles and Management |
|------------------------------------|

| |
|--------------------------|
| Digital Art and Design 1 |
|--------------------------|

| |
|-------------------|
| Entrepreneurship* |
|-------------------|

| |
|---------------------------------|
| Family and Consumer Sciences 1* |
|---------------------------------|

| |
|--------------------------------|
| Family and Consumer Sciences 2 |
|--------------------------------|

| |
|---|
| Fundamentals of Business, Marketing and Finance |
|---|

| |
|------------------------------------|
| Fundamentals of Project Management |
|------------------------------------|

| |
|-------------------------|
| Graphic Communication 1 |
|-------------------------|

| |
|--------------------------|
| Housing and Interiors 1* |
|--------------------------|

| |
|-------------------------|
| Housing and Interiors 2 |
|-------------------------|

| |
|---------------------------------------|
| Introduction to Graphic Communication |
|---------------------------------------|

| |
|-----------------------|
| Marketing Management* |
|-----------------------|

| |
|----------------------|
| Mechanical Design 1* |
|----------------------|

| |
|---|
| Arts, A/V Technology & Communications Internship, work-based credit |
|---|

Media Technology

100299

*The Media Technology CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Media Technology 1**

Media Technology 2**

Media Technology 3

Media Technology 4

Arts, A/V Technology & Communications Internship, work-based credit

Business Management & Administration Cluster

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 for Business Management & Administration Cluster |
|-------------|--|
| 5007 | Google Applications |
| 5020 | <i>Digital Workplace Applications</i> |
| 5021 | Business Data Applications |
| 5030 | Digital Multimedia |
| 5032 | <i>International Business</i> |
| 5041 | Workplace Communications |
| 5044 | Business Law |
| 5049 | Advanced Business Law |
| 5090 | Fundamentals of Business, Marketing and Finance |
| 5092 | Business Principles and Management |
| 5093 | Fundamentals of Human Resource Management |
| 5122 | Administrative Support Technology |
| 5150 | Virtual Enterprise 1 |
| 5151 | Virtual Enterprise 2 |
| 5152 | Virtual Enterprise 3 |
| 5153 | Virtual Enterprise 4 |
| 5176 | Digital Publication Design |
| 5178 | Professional and Leadership Development |
| 5180 | Digital Technologies |
| 5270 | Principles of Digital Technology |
| 5340 | Image Editing |
| 5400 | Entrepreneurship |
| 5480 | Fundamentals of Project Management |
| 5490 | Business Management & Administration Internship, work-based credit |
| 5499 | Business Management & Administration, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 520401 | Administrative Services |
| 521206 | Business Information Management |
| 520201 | General Management |
| 521001 | Human Resources Management |
| 520204 | Operations Management |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

All of the Business Management and Administration CIP-coded programs require a minimum of three (3) Carnegie units. **The concentrator courses are identified with **.**

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Administrative Services

520401

Required Courses:

Administrative Support Technology**

Digital Workplace Applications**

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

Accounting 1*

Advanced Business Law

Advanced Web Page Design and Development

Business Data Applications*

Business Law*

Business Principles and Management*

Digital Publication Design*

Digital Technologies

Entrepreneurship*

Fundamentals of Business, Marketing and Finance*

Fundamentals of Web Page Design and Development*

Google Applications

Image Editing*

*International Business**

Principles of Digital Technology

Professional and Leadership Development*

Social Media Marketing

Workplace Communications*

Business Management & Administration Internship, work-based credit

Required Courses:

Digital Publication Design**

Image Editing**

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

Accounting 1*
Advanced Web Page Design and Development
Advertising
Business Data Applications*
Business Law
Business Principles and Management*
Digital Multimedia*
Digital Technologies*
*Digital Workplace Applications**
Discovering Computer Science*
Entrepreneurship*
Foundations of Animation*
Fundamentals of Business, Marketing, and Finance*
Fundamentals of Computing*
Fundamentals of Project Management
Fundamentals of Web Page Design and Development*
Google Applications*
IT Fundamentals
Principles of Digital Technology
Professional Leadership Development*
Social Media Marketing
Workplace Communications*
Business Management & Administration Internship, work-based credit

General Management

Required Courses:

Accounting 1**

Entrepreneurship**

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

Accounting 2*
Advanced Business Law
Business Data Applications*
Business Finance
Business Law*
Business Principles and Management*
*Digital Workplace Applications**
Fundamentals of Business, Marketing and Finance
Fundamentals of Human Resource Management*

| |
|---|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Fundamentals of Project Management Fundamentals of Webpage Design and Development* Google Applications <i>International Business*</i> Marketing Management Marketing* Natural Hair Braiding*# Personal Finance Professional and Leadership Development* Social Media Marketing* Virtual Enterprise 1* Virtual Enterprise 2 Virtual Enterprise 3 Virtual Enterprise 4 Workplace Communications* Business Management & Administration Internship, work-based credit |

Human Resources Management

521001

Required Courses:

- Business Law**
- Fundamentals of Human Resource Management**

| |
|---|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Business Data Applications* Business Principles and Management* Digital Publication Design <i>Digital Workplace Applications*</i> Entrepreneurship Fundamentals of Business, Marketing, and Finance* Google Applications <i>International Business</i> Personal Finance* Professional and Leadership Development* Workplace Communications* Business Management & Administration Internship, work-based credit |

Required Courses:

Virtual Enterprise 1**

Virtual Enterprise 2**

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

- Accounting 1*
- Accounting 2
- Advanced Business Law
- Business Data Applications*
- Business Law*
- Business Principles and Management*
- Digital Publication Design
- Digital Technologies
- Digital Workplace Applications**
- Entrepreneurship*
- Fundamentals of Business, Marketing, and Finance*
- Fundamentals of Project Management
- Google Applications
- Image Editing*
- International Business**
- Marketing
- Professional and Leadership Development
- Social Media Marketing
- Virtual Enterprise 3*
- Virtual Enterprise 4*
- Workplace Communications*
- Business Management & Administration Internship, work-based credit

Education & Training Cluster

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

| Course Code | Course Title for Education & Training Cluster |
|-------------|--|
| 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 |
| 5800 | Child Development 1 (<i>Refer to Appendix D</i>) |
| 5801 | Child Development 2 |
| 6390 | Education & Training Internship, work-based credit |
| 6399 | Education & Training, LBA |

| Course Code | Course Title for Dual Enrollment Education & Training Cluster |
|-------------|--|
| 570500EW | Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only) |
| 639100EW | Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only) |

Note: Teacher Cadet courses are dual enrollment courses and have both CTE and academic course codes. The content is the same for CTE and academic students. The only difference is the use of the CTE course code for a CTE completer program.

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 131210 | Early Childhood Education |
| 130101 | Introduction to Teaching |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum* number of Carnegie units required for the program.

*All of the Education and Training CIP-coded programs require a minimum of four (4) Carnegie Units. The concentrator courses are identified with **.*

Early Childhood Education

131210

Required Courses:

Early Childhood Education 1**

Early Childhood Education 2**

| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
|--|
| Child Development 1 |
| Child Development 2 |
| Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only) |

| | |
|--|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> | |
| Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only) | |
| Entrepreneurship | |
| Family and Consumer Sciences 1 | |
| Family and Consumer Sciences 2 | |
| <i>Digital Workplace Applications</i> | |
| <i>Family Life Education</i> | |
| Family Life Education 2 (<i>Phasing Out June 30, 2024</i>) | |
| Foods and Nutrition 1 | |
| Foods and Nutrition 2 | |
| Health Science 1 – Foundations of Healthcare Professionals | |
| Introduction to Early Childhood Education | |
| Introduction to Teaching 1 | |
| IT Fundamentals* | |
| Mental Health Fitness # | |
| <i>Parenting Education</i> | |
| Parenting Education 2 (<i>Phasing Out June 30, 2024</i>) | |
| Education & Training Internship, work-based credit | |

Introduction to Teaching

130101

Required Courses:

- Introduction to Teaching 1**
- Introduction to Teaching 2**

| | |
|--|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> | |
| Child Development 1 | |
| Child Development 2 | |
| <i>Digital Workplace Applications</i> | |
| Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only) | |
| Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only) | |
| Early Childhood Education 1 | |
| Entrepreneurship | |
| <i>Family Life Education</i> | |
| Family Life Education 2 (<i>Phasing Out June 30, 2024</i>) | |
| Health Science 1 – Foundations of Healthcare Professionals | |
| <i>Human Development: Responsible Life Choices</i> | |
| Human Development: Responsible Life Choices 2 (<i>Phasing Out June 30, 2024</i>) | |
| Introduction to Early Childhood Education | |
| IT Fundamentals* | |
| Mental Health Fitness*# | |
| <i>Parenting Education</i> | |
| Parenting Education 2 (<i>Phasing Out June 30, 2024</i>) | |
| Web Page Design and Development | |
| Education & Training Internship, work-based credit | |

Finance Cluster

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

| Course Code | Course Title for Finance Cluster |
|-------------|---------------------------------------|
| 5001 | Accounting 1 |
| 5005 | Accounting 2 |
| 5131 | Personal Finance |
| 5271 | Banking Services |
| 5273 | Business Finance |
| 5275 | Insurance and Risk Management |
| 5277 | Securities and Investments |
| 6190 | Finance Internship, work-based credit |
| 6899 | Finance, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 520801 | Academy of Finance |
| 520301 | Accounting |
| 520803 | Banking Services |
| 520804 | Business Finance |
| 521701 | Insurance |
| 520807 | Securities and Investments |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

*All of the Finance CIP-coded programs require a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Academy of Finance

520801

Schools meeting the National Academy Foundation (NAF) membership requirements must follow the NAF curriculum [NAF].

Accounting

520301

Required Courses:

Accounting 1**

Accounting 2**

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

Banking Services
Business Data Applications*
Business Finance*
Business Law*
Business Principles and Management*
*Digital Workplace Applications**
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Insurance and Risk Management
Personal Finance*
Professional and Leadership Development
Securities and Investments
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*
Finance Internship, 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 Data Applications*
Business Law*
Business Principles and Management
*Digital Workplace Applications**
Entrepreneurship
Fundamentals of Business, Marketing and Finance
Insurance and Risk Management
International Business
Marketing*
Personal Finance*
Professional and Leadership Development*
Professional Sales*
Securities and Investments
Workplace Communications*
Finance Internship, 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 Data Applications*

Business Law*

*Digital Workplace Applications**

Entrepreneurship*

Fundamentals of Business, Marketing and Finance*

Insurance and Risk Management

*International Business**

Marketing*

Personal Finance*

Professional and Leadership Development*

Professional Sales*

Securities and Investments*

Workplace Communications*

Finance Internship, work-based credit

Insurance

521701

Required Courses:

Business Finance**

Insurance and Risk Management**

Additional approved courses if needed to meet state recognized program requirements

Accounting 1*
Accounting 2
Banking Services
Business Data Applications*
Business Law*
Business Principles and Management
*Digital Workplace Applications**
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Marketing*
Personal Finance*
Professional and Leadership Development*
Professional Sales*
Securities and Investments
Social Media Marketing*
Workplace Communications*
Finance Internship, 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 Data Applications*
Business Law*
Business Principles and Management
*Digital Workplace Applications**
Entrepreneurship*
Fundamentals of Business, Marketing and Finance*
Insurance and Risk Management
Marketing*
Personal Finance*
Professional and Leadership Development
Professional Sales*
Workplace Communications*
Finance Internship, work-based credit

Government & Public Administration Cluster

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.

| Course Code | Course Title for Government & Public Administration Cluster |
|-------------|--|
| 6570 | Foundations of Leadership |
| 6571 | Principles of Public Management and Administration |
| 6572 | Community and Regional Planning |
| 6580 | Government & Public Administration Internship, work-based credit |
| 6799 | Government & Public Administration, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 440501 | Governance |
| 440401 | Public Management and Administration |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

Governance

440501

*The Governance CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with**.*

Business Law

Community and Regional Planning**

Foundations of Leadership**

Government & Public Administration Internship, work-based credit

Public Management and Administration

440401

*The Public Management and Administration CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with**.*

Foundations of Leadership**

Fundamentals of Project Management

Principles of Public Management and Administration**

Government & Public Administration, work-based credit

Health Science Cluster

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

| Course Code | Course Title for Health Science Cluster |
|-------------|--|
| 5520 | Practical Nursing, Phase 1 |
| 5531 | Emergency Medical Services 1 |
| 5532 | Emergency Medical Services 2 |
| 5533 | Emergency Medical Services 3 |
| 5540 | Medical Terminology |
| 5550 | Health Science 1 – Foundations of Healthcare Professionals |
| 5551 | Health Science 2 – Advanced Healthcare Applications |
| 5552 | Health Science – Human Structure, Function & Disease |
| 5555 | Sports Medicine 1 |
| 5556 | Sports Medicine 2 |
| 5557 | Sports Medicine 3 |
| 5560 | Health Science Clinical Study |
| 5570 | Pharmacology for Medical Careers |
| 5580 | PLTW – Principles of Biomedical Sciences |
| 5581 | PLTW – Human Body Systems |
| 5582 | PLTW – Medical Interventions |
| 5583 | PLTW – Biomedical Innovation |
| 5584 | Medical Billing and Coding |
| 5586 | Foundations of Public Health |
| 5587 | Advanced Principles of Public Health |
| 5588 | Public Health Internship, work-based credit # |
| 5590 | Health Science Internship, work-based credit |
| 5591 | Sports Medicine Internship, work-based credit |
| 5599 | Health Science, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|---------------|---|
| 260102 | Biomedical Sciences (Project Lead the Way) |
| 510999 | EMS |
| 510000 | Health Science |
| 512208 | Public Health # |
| 513999 | Practical Nursing |
| 310505 | Sports Medicine |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program*.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Biomedical Sciences (Project Lead the Way)

260102

*The Biomedical Sciences (Project Lead the Way) CIP-coded program requires a minimum of three (3) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

PLTW – Human Body Systems**

PLTW – Principles of Biomedical Sciences**

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

Emergency Medical Services 1
Emergency Medical Services 2
Health Science – Human Structure, Function & Disease*
Health Science 1 – Foundations of Healthcare Professionals
Health Science 2 – Advanced Healthcare Applications
Medical Terminology*
Pharmacology for Medical Careers
PLTW – Biomedical Innovation
PLTW – Medical Interventions*
Sports Medicine 1
Sports Medicine 2
Health Science Internship, work-based credit
Sports Medicine Internship, work-based credit

EMS

510999

*The EMS CIP-coded program requires a minimum of three (3) Carnegie units. **The concentrator courses are identified with **.***

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*
Health Science – Human Structure, Function & Disease*
Health Science 1 – Foundations of Healthcare Professionals
Health Science 2 – Advanced Healthcare Applications
Medical Terminology*
Pharmacology for Medical Careers
PLTW – Human Body Systems*
PLTW – Principles of Biomedical Sciences
Sports Medicine 1

| |
|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Sports Medicine 2 Health Science Internship, work-based credit Sports Medicine Internship, work-based credit |

Health Science 510000

*The Health Science CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

Health Science 1 – Foundations of Healthcare Professionals**

Health Science 2 – Advanced Healthcare Applications**

| |
|---|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Advanced Principles of Public Health Emergency Medical Services 1 Emergency Medical Services 2 Foundations of Public Health Health Science – Human Structure, Function & Disease* Health Science Clinical Study* Introduction to Veterinary Science* Medical Billing and Coding Medical Terminology* Pharmacology for Medical Careers PLTW – Human Body Systems* PLTW – Principles of Biomedical Sciences Practical Nursing, Phase 1 Sports Medicine 1 Sports Medicine 2 Health Science Internship, work-based credit Sports Medicine Internship, work-based credit |

*The concentrator courses are identified with **.*

Practical Nursing 513999

Practical Nursing, Phase 1

Health Science 1 – Foundations of Healthcare Professionals**

Health Science 2 – Advanced Healthcare Applications**

Or

Emergency Medical Services 1**

Emergency Medical Services 2**

Or

Sports Medicine 1**

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Sports Medicine 2**

Or

PLTW – Principles of Biomedical Sciences**

PLTW – Human Body Systems**

Public Health #

512208

*The Public Health CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

Foundation of Public Health**

Advanced Principles of Public Health**

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

Health Science 1*

Health Science 2

Health Science Human Structure Function and Disease

Medical Terminology

PLTW Human Body Systems

PLTW Principles of Biomedical Science*

Public Health Internship, work-based credit #

Sports Medicine

310505

*The Sports Medicine CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

Sports Medicine 1**

Sports Medicine 2**

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

Emergency Medical Services 1

Emergency Medical Services 2

Health Science – Human Structure, Function & Disease*

Health Science 1 – Foundations of Healthcare Professionals

Health Science 2 – Advanced Healthcare Applications

Pharmacology for Medical Careers

PLTW – Human Body Systems*

PLTW – Principles of Biomedical Sciences

Sports Medicine 3*

*Sports Nutrition**

Medical Terminology*

Health Science Internship, work-based credit

Sports Medicine Internship, work-based credit

Hospitality & Tourism Cluster

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 for Hospitality & Tourism Cluster |
|-------------|---|
| 5460 | Safety and Sanitation # |
| 5473 | Lodging Management |
| 5474 | Travel and Tourism Management |
| 5475 | Event and Entertainment Management |
| 5478 | Introduction to Hospitality and Tourism Management |
| 5720 | Culinary Arts Management 1 |
| 5721 | Culinary Arts Management 2 |
| 5722 | Introduction to Culinary Arts Management |
| 5723 | Baking and Pastry |
| 5724 | Advanced Baking and Pastry |
| 5190 | Hospitality & Tourism Internship, work-based credit |
| 5199 | Hospitality & Tourism, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|---------------|---|
| 120501 | Baking and Pastry # |
| 520905 | Culinary Arts Management |
| 520904 | Hospitality and Tourism Management |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

*The Hospitality and Tourism CIP-coded programs require a minimum of three (3) Carnegie units. Advanced Baking and Pastry and Baking and Pastry are two (2) Carnegie units each. **The concentrator courses are identified with **.***

Baking and Pastry #

120501

*The Baking and Pastry CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

Baking and Pastry**

Advanced Baking and Pastry**

| |
|---|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Accounting 1 Culinary Arts Management 1 <i>Digital Workplace Applications</i> Entrepreneurship Event and Entertainment Management Foods and Nutrition 1 Fundamentals of Web Page Design and Development Introduction to Culinary Arts Management Introduction to Hospitality and Tourism Management <i>Nutrition and Wellness</i> Safety and Sanitation # Hospitality & Tourism Internship, work-based credit |

Culinary Arts Management

520905

*The Culinary Arts Management CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

- Culinary Arts Management 1**
- Culinary Arts Management 2**
- Or*
- Culinary Arts Management 1**
- Baking and Pastry**

| |
|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Accounting 1* <i>Digital Workplace Applications</i> Entrepreneurship* Event and Entertainment Management* Foods and Nutrition 1* Foods and Nutrition 2 Fundamentals of Web Page Design and Development Introduction to Culinary Arts Management* Introduction to Hospitality and Tourism Management* IT Fundamentals* Mental Health Fitness # <i>Nutrition and Wellness*</i> Safety and Sanitation # <i>Sports Nutrition</i> Hospitality & Tourism Internship, work-based credit |

Hospitality and Tourism Management

520904

*The Hospitality and Tourism Management CIP-coded program requires a minimum of three (3) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

Introduction to Hospitality and Tourism Management**

Select one course from below for the second concentrator course and at least two (2) courses for completer status:

Event and Entertainment Management**

Lodging Management**

Travel and Tourism Management**

| |
|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
|--|

Accounting 1

Culinary Arts Management 1

Digital Workplace Applications

Entrepreneurship

Foods and Nutrition 1

Foods and Nutrition 2

Fundamentals of Web Page Design and Development

Introduction to Culinary Arts Management

IT Fundamentals

Marketing Management

Mental Health Fitness #

Safety and Sanitation #

Sports and Entertainment Management

Sports and Entertainment Marketing

Hospitality & Tourism Internship, work-based credit

Human Services/Family & Consumer Sciences Cluster

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

| Course Code | Course Title for Human Services/Family & Consumer Sciences Cluster |
|-------------|--|
| 5759 | <i>Nutrition and Wellness (Refer to Appendix D)</i> |
| 5760 | <i>Sports Nutrition</i> |
| 5804 | <i>Fashion, Fabric, and Design 1 (Refer to Appendix D)</i> |
| 5805 | Fashion, Fabric, and Design 2 |
| 5808 | Family and Consumer Sciences 1 |
| 5809 | Family and Consumer Sciences 2 |
| 5812 | <i>Financial Fitness</i> |
| 5813 | Financial Fitness 2 (<i>Phasing Out June 30, 2024</i>) |
| 5816 | <i>Parenting Education</i> |
| 5817 | Parenting Education 2 (<i>Phasing Out June 30, 2024</i>) |
| 5820 | <i>Family Life Education</i> |
| 5821 | Family Life Education 2 (<i>Phasing Out June 30, 2024</i>) |
| 5824 | <i>Foods and Nutrition 1 (Refer to Appendix D)</i> |
| 5825 | Foods and Nutrition 2 |
| 5830 | <i>Housing and Interiors 1 (Refer to Appendix D)</i> |
| 5831 | Housing and Interiors 2 |
| 5834 | <i>Human Development: Responsible Life Choices</i> |
| 5835 | Human Development: Responsible Life Choices 2 (<i>Phasing Out June 30, 2024</i>) |
| 6108 | Mental Health Fitness # |
| 6146 | Natural Hair Braiding # |
| 6150 | Cosmetology 1 |
| 6151 | Cosmetology 2 |
| 6152 | Cosmetology 3 |
| 6153 | Cosmetology 4 |
| 6154 | Nail Technology 1 |
| 6155 | Nail Technology 2 |
| 6156 | Nail Technology 3 |
| 6157 | Nail Technology 4 |
| 6158 | Barber/Master Hair Care 1 |
| 6159 | Barber/Master Hair Care 2 |
| 6160 | Barber/Master Hair Care 3 |
| 6161 | Barber/Master Hair Care 4 |
| 6162 | Esthetics 1 |
| 6163 | Esthetics 2 |
| 6164 | Esthetics 3 |
| 6165 | Esthetics 4 |
| 5890 | Family and Consumer Sciences Internship, work-based credit |
| 5790 | Human Services Internship, 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 CTE program) |
|-----------------|--|
| 120402 | Barber/Master Hair Care |
| 120401 | Cosmetology |
| 120409 | Esthetics |
| 190101 | Family and Consumer Sciences |
| 190704 | Family Systems & Mental Health # |
| 120410 | Nail Technology |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

Barber/Master Hair Care

120402

*The Barber/Master Hair Care CIP-coded program requires a minimum of eight (8) Carnegie units and completion of 1540 hours. The Barber/Master Hair Care program requires three identified courses to be a concentrator. **The concentrator courses are identified with **.***

Required Courses:

Barber/Master Hair Care 1**
 Barber/Master Hair Care 2**
 Barber/Master Hair Care 3**
 Barber/Master Hair Care 4

Additional approved course if needed to meet state recognized program requirements:

Natural Hair Braiding #

Human Services Internship, work-based credit

Cosmetology

120401

*The Cosmetology CIP-coded program requires a minimum of eight (8) Carnegie units and completion of 1540 hours. The Cosmetology program requires three identified courses to be a concentrator. **The concentrator courses are identified with **.***

Four course codes must be used for this program.

Required Courses:

Cosmetology 1**
 Cosmetology 2**
 Cosmetology 3**
 Cosmetology 4

Additional approved course if needed to meet state recognized program requirements:

Human Services Internship, work-based credit

Esthetics

120409

*The Esthetics CIP-coded program requires a minimum of four (4) Carnegie units and completion of 480 hours. **The concentrator courses are identified with **.***

Required Courses:

Esthetics 1**

Esthetics 2**

Esthetics 3

Esthetics 4

Additional approved course if needed to meet state recognized program requirements:

Human Services Internship, work-based credit

Family and Consumer Sciences

190101

The Family and Consumer Sciences CIP-coded program requires a minimum of three (3) Carnegie units. Three level one (1) courses or a mixture of level one (1) and two (2) courses constitutes a complete program.

Any two of these courses would qualify for concentrator status. The combination can be levels one and two of one course or level one of two different courses that prepare a student to earn an industry or postsecondary recognized credential.

Required Courses (at least two of the following):

Child Development 1

Child Development 2

Family and Consumer Sciences 1

Family and Consumer Sciences 2

Family Life Education

Family Life Education 2 (*Phasing Out June 30, 2024*)

Fashion, Fabric, and Design 1

Fashion, Fabric, and Design 2

Financial Fitness

Financial Fitness 2 (*Phasing Out June 30, 2024*)

Foods and Nutrition 1

Foods and Nutrition 2

Housing and Interiors 1

Housing and Interiors 2

Human Development: Responsible Life Choices

Human Development: Responsible Life Choices 2 (*Phasing Out June 30, 2024*)

Mental Health and Fitness #

Parenting Education

Parenting Education 2 (*Phasing Out June 30, 2024*)

Nutrition and Wellness

Sports Nutrition

Additional approved courses if needed to meet state recognized program requirements for three (3) or more units:

Culinary Arts Management 1*
Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completer Only)*
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completer Only)*
Early Childhood Education 1*
Entrepreneurship
Fashion Design and Apparel Construction 1*
Food Science 1*
Interior Design 1*
Introduction to Culinary Arts Management*
Introduction to Early Childhood Education*
Introduction to Hospitality and Tourism Management*
Introduction to Teaching 1*
IT Fundamentals
Personal Finance*
Family & Consumer Sciences Internship, work-based credit

Additional approved course if needed for four (4) units:

Family Systems & Mental Health #

190704

*The Family System & Mental Health CIP-coded program requires a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

Child Development 1**

Mental Health Fitness#**

Approved courses if needed to meet state recognized program requirements:

Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completer Only)*
Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completer Only)*
Early Childhood Education 1*
*Family Life Education**
*Human Development: Responsible Life Choices**
Introduction to Early Childhood Education*
Introduction to Teaching 1*
IT Fundamentals
*Parenting Education**
Family & Consumer Sciences Internship, work-based credit

Nail Technology

120410

*The Nail Technology CIP-coded program requires a minimum of three (3) Carnegie units and completion of 360 hours. **The concentrator courses are identified with **.***

Required Courses:

Nail Technology 1**

Nail Technology 2**

Nail Technology 3

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

Nail Technology 4

Human Services Internship, work-based credit

Information Technology Cluster

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 for Information Technology Cluster |
|-------------|--|
| 5023 | Fundamentals of Computing (<i>Refer to Appendix D</i>) |
| 5025 | IT Fundamentals |
| 5028 | Fundamentals of Computing Part 1 (<i>Refer to Appendix D</i>) |
| 5029 | Fundamentals of Computing Part 2 (<i>Refer to Appendix D</i>) |
| 5031 | Fundamentals of Web Page Design and Development |
| 5033 | Advanced Web Page Design and Development |
| 5050 | <i>Introduction to Computer Programming</i> |
| 5051 | <i>Intermediate Computer Programming</i> |
| 5052 | Computer Programming 1 with Java |
| 5053 | Computer Programming 2 with Java |
| 5054 | Computer Programming 1 with Visual Basic |
| 5055 | Computer Programming 2 with Visual Basic |
| 5056 | Computer Programming 1 with C++ |
| 5057 | Computer Programming 2 with C++ |
| 5058 | Java Fundamentals and Java Programming |
| 5061 | Discovering Computer Science (<i>Refer to Appendix D</i>) |
| 5062 | Discovering Computer Science Part 1 (<i>Refer to Appendix D</i>) |
| 5063 | Discovering Computer Science Part 2 (<i>Refer to Appendix D</i>) |
| 5064 | Computer Programming 1 with Python |
| 5065 | Computer Programming 2 with Python |
| 5066 | Computer Programming 1 with Swift |
| 5067 | Computer Programming 2 with Swift |
| 5310 | Networking Fundamentals |
| 5311 | Advanced Networking |
| 5312 | Server Administration |
| 5313 | Advanced Server Administration |
| 5320 | Computer Repair and Service |
| 5321 | Advanced Computer Repair and Service |
| 5322 | Computer Operating Systems |
| 5323 | Advanced Computer Operating Systems |
| 5324 | Database Design and Programming with SQL |
| 5326 | Database Programming with PL/SQL |
| 5327 | SAS Programming 1 |
| 5328 | SAS Programming 2 |
| 5350 | Foundations of Animation |
| 5351 | Advanced Animation |
| 5352 | Game Design and Development |
| 5361 | GIS 1 |
| 5362 | GIS 2 |

| Course Code | Course Title for Information Technology Cluster |
|-------------|--|
| 5370 | Cyber Security Fundamentals |
| 5372 | Advanced Cyber Security |
| 5374 | Computer Forensics |
| 5376 | Advanced Computer Programming # |
| 5377 | Information Systems # |
| 5378 | Mobile Applications Development # |
| 5379 | Physical Computing and Control Systems # |
| 6891 | Computers, Networks and Databases |
| 6892 | Design for the Digital World |
| 6893 | Databases in the Cloud |
| 6894 | Developing a Cloud Presence |
| 5390 | Information Technology Internship, work-based credit |
| 5399 | Information Technology, LBA |

| Course Code | Course Title for Information Technology Cluster: AP and Cambridge Computer Science |
|-------------|--|
| 4771CTAW | AP Computer Science A |
| 4775CTAW | AP Computer Science Principles |
| 9706CTCW | IGCSE Computer Science (0478) |
| 9706CTHW | IGCSE Computer Science (0478) |

The AP and Cambridge Computer Science courses listed above have been carefully examined and the content aligns with existing Computer Sciences courses. Courses taken beginning with the 2021-22 school year can be used as a part of the CTE completer program only when using these designated course codes.

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 111003 | Computer and Information Systems Security/Information Assurance |
| 110701 | Computer Science (PLTW) |
| 500411 | Game and Interactive Media Design |
| 110104 | Informatics |
| 151202 | Information Support and Services |
| 110901 | Networking Systems |
| 110201 | Programming and Software Development |
| 110801 | Web and Digital Communications |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the minimum number of Carnegie units required for the program.

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Computer and Information Systems Security/Information Assurance**111003**

*The Computer and Information Systems Security/Information Assurance CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

Advanced Cyber Security**

Fundamentals of Cyber Security**

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|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
|--|

| |
|---------------------|
| (Choose two) |
|---------------------|

| |
|---------------------|
| Advanced Networking |
|---------------------|

| |
|--------------------|
| Computer Forensics |
|--------------------|

| |
|---------------------------|
| Fundamentals of Computing |
|---------------------------|

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|-------------------------|
| Networking Fundamentals |
|-------------------------|

| |
|------------------------------------|
| PLTW – Computer Science Essentials |
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| |
|------------------------------------|
| PLTW – Computer Science Principles |
|------------------------------------|

| |
|----------------------|
| PLTW – Cybersecurity |
|----------------------|

| |
|--|
| Information Technology Internship, work-based credit |
|--|

Computer Science (PLTW)**110701**

*The Computer Science (PLTW) CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

PLTW – Computer Science Essentials**

PLTW – Cybersecurity**

PLTW – Computer Science Principles**

PLTW – Computer Science A*

Information Technology Internship, work-based credit

Game and Interactive Media Design**500411**

*The Game and Interactive Media Design CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

Foundations of Animation**

Game Design and Development**

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

Accounting I
Advanced Animation
AP Computer Science A
AP Computer Science Principles
Computer Programming 1 with C++
Computer Programming 1 with Java
Computer Programming 1 with Python
Computer Programming 1 with Swift
Computer Programming 1 with Visual Basic
Computer Repair and Service
Cyber Security Fundamentals
Digital Art and Design 1
Entrepreneurship
Fundamentals of Computing
Fundamentals of Computing I
Fundamentals of Computing II
Fundamentals of Web Page & Design and Development
IGCSE Computer Science (0478)
Introduction to Computer Programming
Media Technology 1
Mobile Applications Development #
Networking Fundamentals
Physical Computing and Control Systems #
PLTW – Computer Science A
PLTW – Computer Science Essentials
PLTW – Computer Science Principles
PLTW – Cybersecurity
Information Technology Internship, work-based credit

Informatics

110104

*The Informatics CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Computers, Networks and Databases**
Design for the Digital World**
Databases in the Cloud
Developing a Cloud Presence
Information Technology Internship, work-based credit

*The Information Support and Services CIP-coded program requires a minimum of three (3) Carnegie units.
The concentrator courses are identified with **.*

Required Courses:

Advanced Computer Repair and Service**

Computer Repair and Service**

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

Advanced Computer Operating Systems

Advanced Computer Programming #

Advanced Cyber Security

Advanced Networking

Advanced Server Administration*

Advanced Web Page Design and Development

AP Computer Science A*

AP Computer Science Principles*

Computer Forensics*

Computer Operating Systems

Computer Programming 1 with C++*

Computer Programming 1 with Java*

Computer Programming 1 with Python*

Computer Programming 1 with Swift*

Computer Programming 1 with Visual Basic*

Computer Programming 2 with C++

Computer Programming 2 with Java

Computer Programming 2 with Python

Computer Programming 2 with Swift

Computer Programming 2 with Visual Basic

Cyber Security Fundamentals*

Database Design and Programming with/SQL

Database Programming with PL/SQL

Discovering Computer Science

Entrepreneurship

Fundamentals of Computing*

Fundamentals of Web Page Design and Development*

Game Design and Development*

Home Smart Systems Technology

IGCSE Computer Science (0478)*

Information Systems #

Intermediate Computer Programming

*Introduction to Computer Programming**

IT Fundamentals*

Mobile Applications Development*#

Networking Fundamentals*

Physical Computing and Control Systems*#

PLTW – Computer Science A

PLTW – Computer Science Essentials*

| |
|---|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| PLTW – Computer Science Principles* PLTW – Cybersecurity* Professional Leadership Development SAS Programming 1 SAS Programming 2 Server Administration* Information Technology Internship, work-based credit |

Networking Systems

110901

*The Networking Systems CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Required Courses:

- Advanced Networking**
- Networking Fundamentals**

| |
|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| Advanced Computer Operating Systems Advanced Computer Programming # Advanced Computer Repair and Service Advanced Cyber Security Advanced Server Administration Advanced Web Page Design and Development AP Computer Science A* AP Computer Science Principles* Computer Forensics* Computer Operating Systems* Computer Programming 1 with C++ Computer Programming 1 with Java Computer Programming 1 with Python Computer Programming 1 with Swift Computer Programming 1 with Visual Basic Computer Programming 2 with C++ Computer Programming 2 with Java Computer Programming 2 with Python Computer Programming 2 with Swift Computer Programming 2 with Visual Basic Computer Repair and Service Cyber Security Fundamentals* Database Design and Programming with SQL Database Programming with PL/SQL Discovering Computer Science Entrepreneurship* Fundamentals of Computing* Fundamentals of Web Page Design and Development* Game Design and Development |

| |
|---|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| <p><i>Home Smart Systems Technology*</i> <i>IGCSE Computer Science (0478)*</i> Information Systems # <i>Intermediate Computer Programming</i> <i>Introduction to Computer Programming</i> IT Fundamentals Mobile Applications Development # Physical Computing and Control Systems*# PLTW – Computer Science A PLTW – Computer Science Essentials* PLTW – Computer Science Principles* PLTW – Cybersecurity* Professional and Leadership Development SAS Programming 1 SAS Programming 2 Server Administration* Information Technology Internship, work-based credit</p> |

Programming and Software Development **110201**
*The Programming and Software Development CIP-coded program requires a minimum of three (3) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

*Introduction to Computer Programming***
*Intermediate Computer Programming***

| |
|--|
| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
| <p>Advanced Animation Advanced Computer Programming # Advanced Cyber Security Advanced Web Page Design and Development AP Computer Science A* AP Computer Science Principles* Computer Forensics* Computer Programming 1 with Java* Computer Programming 1 with C++* Computer Programming 1 with Python* Computer Programming 1 with Swift* Computer Programming 1 with Visual Basic* Computer Programming 2 with C++ Computer Programming 2 with Python Computer Programming 2 with Swift Computer Programming 2 with Visual Basic Computer Programming with Java 2 Cyber Security Fundamentals* Database Design and Programming with SQL*</p> |

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

Database Programming with PL/SQL
Discovering Computer Science
Entrepreneurship
Foundations of Animation
Fundamentals of Computing*
Fundamentals of Web Page Design and Development*
Game Design and Development*
GIS 1*
GIS 2
IGCSE Computer Science (0478)*
Information Systems*#
IT Fundamentals*
Java Fundamentals and Java Programming*
Mobile Applications Development*#
Networking Fundamentals*
Physical Computing and Control Systems*#
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
SAS Programming 1*
SAS Programming 2
Information Technology Internship, work-based credit

Or

Required Courses:

Computer Programming 1 with C++**
Computer Programming 2 with C++**

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

Advanced Animation
Advanced Computer Programming #
Advanced Cyber Security
Advanced Web Page Design and Development
AP Computer Science A*
AP Computer Science Principles*
Computer Forensics*
Computer Programming 1 with Java*
Computer Programming 1 with Python*
Computer Programming 1 with Swift*
Computer Programming 1 with Visual Basic*
Computer Programming 2 with Java
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Cyber Security Fundamentals*

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

Database Design and Programming with SQL*
Database Programming with PL/SQL
Discovering Computer Science
Entrepreneurship
Foundations of Animation
Fundamentals of Computing*
Fundamentals of Web Page Design and Development*
Game Design and Development*
GIS 1*
GIS 2
IGCSE Computer Science (0478)*
Intermediate Computer Programming
*Introduction to Computer Programming**
IT Fundamentals*
Java Fundamentals and Java Programming*
Networking Fundamentals*
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
SAS Programming 1*
SAS Programming 2
Information Technology Internship, work-based credit

Or

Required Courses:

Computer Programming 1 with Java**
Computer Programming 2 with Java**

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

Advanced Animation
Advanced Computer Programming #
Advanced Cyber Security
Advanced Web Page Design and Development*
AP Computer Science A*
AP Computer Science Principles*
Computer Forensics*
Computer Programming 1 with C++*
Computer Programming 1 with Python*
Computer Programming 1 with Swift*
Computer Programming 1 with Visual Basic*
Computer Programming 2 with C++
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Cyber Security Fundamentals*
Database Design and Programming with SQL*

| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
|--|
| Database Programming with PL/SQL |
| Discovering Computer Science |
| Entrepreneurship |
| Foundations of Animation |
| Fundamentals of Computing* |
| Fundamentals of Web Page Design and Development* |
| Game Design and Development* |
| GIS 1* |
| GIS 2 |
| IGCSE Computer Science (0478)* |
| <i>Intermediate Computer Programming</i> |
| <i>Introduction to Computer Programming*</i> |
| Information Systems*# |
| IT Fundamentals* |
| Java Fundamentals and Java Programming* |
| Mobile Applications Development*# |
| Networking Fundamentals* |
| Physical Computing and Control Systems*# |
| PLTW – Computer Science A |
| PLTW – Computer Science Essentials* |
| PLTW – Computer Science Principles* |
| PLTW – Cybersecurity* |
| Professional and Leadership Development |
| SAS Programming 1* |
| SAS Programming 2 |
| Information Technology Internship, work-based credit |

Or

Required Courses:

Computer Programming 1 Visual Basic**

Computer Programming 2 Visual Basic**

| <i>Additional approved courses if needed to meet state recognized program requirements:</i> |
|--|
| Computer Programming 2 with C++ |
| Computer Programming 2 with Java |
| Computer Programming 2 with Python |
| Computer Programming 2 with Swift |
| Cyber Security Fundamentals* |
| Database Design and Programming with SQL* |
| Database Programming with PL/SQL |
| Discovering Computer Science |
| Entrepreneurship |
| Foundations of Animation |
| Fundamentals of Computing* |
| Fundamentals of Web Page Design and Development* |
| Game Design and Development* |
| GIS 1* |
| GIS 2 |
| IGCSE Computer Science (0478)* |

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

Information Systems*#

Intermediate Computer Programming

Introduction to Computer Programming*

IT Fundamentals*

Java Fundamentals and Java Programming*

Mobile Applications Development*#

Networking Fundamentals*

Physical Computing and Control Systems*#

PLTW – Computer Science A

PLTW – Computer Science Essentials*

PLTW – Computer Science Principles*

PLTW – Cybersecurity*

Professional and Leadership Development

SAS Programming 1*

SAS Programming 2

Information Technology Internship, work-based credit

Or

Required Courses:

Computer Programming 1 with Python**

Computer Programming 2 with Python**

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

Advanced Animation

Advanced Computer Programming #

Advanced Cyber Security

Advanced Web Page Design and Development

AP Computer Science A*

AP Computer Science Principles*

Computer Forensics*

Computer Programming 1 with Java*

Computer Programming 1 with C++*

Computer Programming 1 with Swift*

Computer Programming 1 with Visual Basic*

Computer Programming 2 with C++

Computer Programming 2 with Swift

Computer Programming 2 with Visual Basic

Computer Programming 2 with Java

Cyber Security Fundamentals*

Database Design and Programming with SQL*

Database Programming with PL/SQL

Discovering Computer Science

Entrepreneurship

Foundations of Animation

Fundamentals of Computing*

Fundamentals of Web Page Design and Development*

Game Design and Development*

GIS 1*

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

GIS 2
IGCSE Computer Science (0478)*
Information Systems*#
Intermediate Computer Programming
*Introduction to Computer Programming**
IT Fundamentals*
Java Fundamentals and Java Programming*
Mobile Applications Development*#
Networking Fundamentals*
Physical Computing and Control Systems*#
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
SAS Programming 1*
SAS Programming 2
Information Technology Internship, work-based credit

Or

Required Courses:

Computer Programming 1 with Swift**
Computer Programming 2 with Swift**

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

Advanced Animation
Advanced Computer Programming #
Advanced Cyber Security
Advanced Web Page Design and Development
AP Computer Science A*
AP Computer Science Principles *
Computer Forensics*
Computer Program with Java 1*
Computer Programming 1 with C++*
Computer Programming 1 with Python *
Computer Programming 1 with Visual Basic*
Computer Programming 2 with C++
Computer Programming 2 with Python
Computer Programming 2 with Visual Basic
Computer Programming 2 with Java
Cyber Security Fundamentals*
Database Design and Programming with SQL*
Database Programming with PL/SQL
Discovering Computer Science
Entrepreneurship
Foundations of Animation
Fundamentals of Computing*

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

Fundamentals of Web Page Design and Development*
Game Design and Development*
GIS 1*
GIS 2
IGCSE Computer Science (0478)*
Information Systems*#
Intermediate Computer Programming
*Introduction to Computer Programming**
IT Fundamentals*
Java Fundamentals and Java Programming*
Mobile Applications Development*#
Networking Fundamentals*
Physical Computing and Control Systems*#
PLTW – Computer Science A
PLTW – Computer Science Essentials*
PLTW – Computer Science Principles*
PLTW – Cybersecurity*
Professional and Leadership Development
SAS Programming 1*
SAS Programming 2
Information Technology Internship, work-based credit

Or

Required Courses:

Database Design and Programming with SQL**
Database Programming with PL/SQL**

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

Advanced Animation
Advanced Computer Programming #
Advanced Cyber Security
Advanced Web Page Design and Development
AP Computer Science A*
AP Computer Science Principles*
Computer Forensics*
Computer Programming 1 with Java*
Computer Programming 1 with Python
Computer Programming 1 with Swift*
Computer Programming 1 with Visual Basic*
Computer Programming 2 with Java
Computer Programming 2 with Python
Computer Programming 2 with Swift
Computer Programming 2 with Visual Basic
Computer Programming with 1 C++*
Computer Programming with C++
Cyber Security Fundamentals*
Discovering Computer Science

| |
|---|
| <p><i>Additional approved courses if needed to meet state recognized program requirements:</i></p> <p>Entrepreneurship Foundations of Animation Fundamentals of Computing* Fundamentals of Web Page Design and Development* Game Design and Development* GIS 1* GIS 2 IGCSE Computer Science (0478)* Information Systems*# <i>Intermediate Computer Programming</i> <i>Introduction to Computer Programming*</i> IT Fundamentals* Java Fundamentals and Java Programming* Mobile Applications Development* Networking Fundamentals* Physical Computing and Control Systems*# PLTW – Computer Science A PLTW – Computer Science Essentials* PLTW – Computer Science Principles* PLTW – Cybersecurity* Professional and Leadership Development SAS Programming 1* SAS Programming 2 Information Technology Internship, work-based credit</p> |
|---|

Web and Digital Communications

110801

*The Web and Digital Communications CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with**.*

Required Courses:

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

| |
|--|
| <p><i>Additional approved courses if needed to meet state recognized program requirements:</i></p> <p>Advanced Animation* Advanced Computer Programming # AP Computer Science A* AP Computer Science Principles* Business Data Applications Computer Forensics* Cyber Security Fundamentals* Digital Media Marketing* Digital Multimedia* Digital Publication Design Digital Technologies*</p> |
|--|

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

Digital Workplace Applications

Discovering Computer Science

Entrepreneurship

Foundations of Animation*

Fundamentals of Computing*

Game Design and Development*

Google Applications

IGCSE Computer Science (0478)*

Image Editing*

Information Systems*#

Intermediate Computer Programming

Introduction to Computer Programming

IT Fundamentals*

Java Fundamentals and Java Programming

Mobile Applications Development*#

Natural Hair Braiding #

Networking Fundamentals*

PLTW – Computer Science A

PLTW – Computer Science Essentials*

PLTW – Computer Science Principles*

PLTW – Cybersecurity*

Professional and Leadership Development

Social Media Marketing*

Information Technology Internship, work-based credit

Law, Public Safety, Corrections & Security Cluster

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

| Course Code | Course Title for Law, Public Safety, Corrections & Security Cluster |
|-------------|--|
| 6505 | Introduction to Law, Public Safety, Corrections and Security |
| 6510 | Law Enforcement Services 1 |
| 6511 | Law Enforcement Services 2 |
| 6514 | Fire Fighter 1 |
| 6515 | Fire Fighter 2 |
| 6526 | Legal Systems Technology 1 |
| 6527 | Legal Systems Technology 2 |
| 6590 | Law, Public Safety, Corrections & Security Internship, work-based credit |
| 6599 | Law, Public Safety, Corrections & Security, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 430203 | Emergency and Fire Management Services |
| 430107 | Law Enforcement Services |
| 220301 | Paralegal Systems Technology |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program*.

*All of the Law, Public Safety, Corrections, and Security programs require a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements which includes 360 hours of instruction.

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, Emergency Medical Services 3, Corrections & Security Internship, work-based credit

Law Enforcement Services **430107**

Law Enforcement Services 1**

Law Enforcement Services 2**

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

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

Paralegal Systems Technology

220301

Required Courses:

Legal Systems Technology 1**

Legal Systems Technology 2**

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

Business Law

Advanced Business Law*

Law, Public Safety, Corrections & Security Internship, work-based credit

Manufacturing Cluster

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

| Course Code | Course Title for Manufacturing Cluster |
|--------------------|--|
| 6045 | Introduction/Intermediate Manufacturing Technology |
| 6133 | Electronics Technology 1 |
| 6134 | Electronics Technology 2 |
| 6135 | Electronics Technology 3 |
| 6136 | Electronics Technology 4 |
| 6210 | Mechatronics 1 – Electrical Components/Industrial Safety |
| 6211 | Mechatronics 2 – Mechanical Components Electric Drives/Hand & Power Tool Op. |
| 6212 | Mechatronics 3 – Electro Pneumatics and Hydraulics |
| 6213 | Mechatronics 4 – Digital Fundamentals and Programmable Controllers |
| 6222 | Advanced Technology for Design and Production |
| 6223 | Systems of Advanced Technology |
| 6224 | Mechatronic Systems for Advanced Production |
| 6225 | Design for the Production of Advanced Products |
| 6230 | Machine Tool Technology 1 |
| 6231 | Machine Tool Technology 2 |
| 6232 | Machine Tool Technology 3 |
| 6233 | Machine Tool Technology 4 |
| 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 Internship, work-based credit |
| 6499 | Manufacturing, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|-----------------|--|
| 470101 | Electronics Technology |
| 150613 | Integrated Production Technology |
| 480503 | Machine Technology |
| 150404 | Mechatronics Integrated Technologies |
| 480501 | Metal Fabrication |
| 480508 | Welding Technology |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

*All Manufacturing CIP-coded programs require a minimum of four (4) units. The concentrator courses are identified with **.*

Electronics Technology 470101

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

If a student completes Electronics Technology 1 and 2, the student could become a completer by completing two or more of the following:

Mechatronics 1 – Electrical Components/Industrial Safety
Mechatronics 2 – Mechanical Components Electric Drives/Hand & Power Tool Op.
Manufacturing Internship, work-based credit

Integrated Production Technology 150613

Advanced Technology for Design and Production**
Systems of Advanced Technology**
Mechatronic Systems for Advanced Production
Design for the Production of Advanced Products
Manufacturing Internship, work-based credit

Machine Technology 480503

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

If a student completes Mechatronics Integrated Technologies 1 and 2, the student could become a completer by completing two or more of the following:

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Electronics Technology 1
Electronics Technology 2
Manufacturing Internship, work-based credit

Or

PLTW – Introduction to Engineering Design
PLTW – Principles of Engineering
Manufacturing Internship, work-based credit

Metal Fabrication

480501

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

Welding Technology

480508

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

Marketing Cluster

Planning, managing, and performing marketing activities to reach organizational objectives such as brand management, professional sales, merchandising, marketing communications and market research.

| Course Code | Course Title for Marketing Cluster |
|-------------|---|
| 5034 | Social Media Marketing |
| 5410 | Fashion Marketing |
| 5421 | Marketing |
| 5422 | Digital Media Marketing |
| 5423 | Marketing Analytics |
| 5425 | Sports and Entertainment Marketing |
| 5426 | Sports and Entertainment Management |
| 5430 | Merchandising |
| 5431 | Marketing Management |
| 5470 | Advertising |
| 5471 | Professional Sales |
| 5091 | Marketing Internship, work-based credit |
| 5099 | Marketing, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 521402 | Marketing Analytics |
| 090903 | Marketing Communications |
| 521401 | Marketing Management |
| 521802 | Merchandising |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

*All Marketing CIP-coded programs require a minimum of three (3) units. The concentrator courses are identified with **.*

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Marketing Analytics

521402

Required Courses:

Marketing**

Marketing Analytics**

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

Accounting 1*
Advertising
Business Data Applications*
*Digital Workplace Applications**
Entrepreneurship*
Fundamentals of Business, Finance, and Marketing*
Google Applications*
Merchandising
Professional and Leadership Development*
Professional Sales
SAS Programming 1*
SAS Programming 2
Social Media Marketing*
Sports and Entertainment Marketing
Virtual Enterprise 1*
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*
Marketing Internship, work-based credit

Marketing Communications

090903

Required Courses:

Advertising** or Digital Media Marketing**
Marketing**

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

Accounting 1*
Advanced Web Page Design and Development
Advertising*
Business Data Applications*
Digital Media Marketing*
Digital Multimedia*
Digital Publication Design*
*Digital Workplace Applications**
Image Editing*
Entrepreneurship*
Fundamentals of Business, Finance, and Marketing*
Fundamentals of Web Page Design and Development*
Google Applications*
Marketing Analytics*
Professional and Leadership Development*
Professional Sales*
Social Media Marketing*

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

Sports and Entertainment Marketing*
Virtual Enterprise 1*
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*
Marketing Internship, work-based credit

Marketing Management

521401

Required Courses:

Marketing**

Marketing Management** or Sports and Entertainment Management**

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

Accounting 1*
Accounting 2
Advertising
Business Data Applications*
Business Finance*
Business Law*
Business Principles and Management*
Digital Workplace Applications
Entrepreneurship*
Event and Entertainment Management
Fundamentals of Business, Finance, and Marketing*
Fundamentals of Human Resource Management*
Fundamentals of Project Management*
Google Applications
Introduction to Hospitality and Tourism*
Marketing Analytics
Professional and Leadership Development*
Professional Sales
Social Media Marketing*
Sports and Entertainment Marketing*
Travel and Tourism Management
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3
Virtual Enterprise 4
Workplace Communications*
Marketing Internship, work-based credit

Required Courses:

Marketing**

Merchandising**

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

- Accounting 1*
- Advanced Web Page Design and Development
- Advertising*
- Business Data Applications*
- Digital Multimedia*
- Digital Publication Design
- Digital Workplace Applications**
- Entrepreneurship*
- Fashion Marketing*
- Fundamentals of Business, Finance, and Marketing*
- Fundamentals of Web Page Design and Development*
- Google Applications*
- Image Editing
- Marketing Analytics
- Professional and Leadership Development*
- Professional Sales
- Social Media Marketing*
- Sports and Entertainment Marketing*
- Workplace Communications*
- Marketing Internship, work-based credit

Science, Technology, Engineering & Mathematics Cluster

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 for Science, Technology, Engineering & Mathematics Cluster |
|-------------|---|
| 5757 | Food Science 1 |
| 5758 | Food Science 2 |
| 6040 | Industrial Technology Education (Exploratory) 1 |
| 6041 | Industrial Technology Education (Exploratory) 2 |
| 6050 | PLTW – Principles of Engineering |
| 6051 | PLTW – Introduction to Engineering Design |
| 6052 | PLTW – Digital Electronics |
| 6053 | PLTW – Computer Integrated Manufacturing |
| 6054 | PLTW – Engineering Design and Development |
| 6056 | PLTW – Aerospace Engineering |
| 6058 | PLTW – Civil Engineering and Architecture |
| 6140 | The Nature of Science and Technology |
| 6141 | Core Applications of Science and Technology |
| 6142 | Impacts of Science and Technology |
| 6143 | Creativity and Innovations |
| 6144 | PLTW – Engineering Essentials |
| 6370 | Core Engineering 1 |
| 6371 | Core Engineering 2 |
| 6374 | PLTW – Environmental Sustainability |
| 6375 | Core Engineering 3 |
| 6376 | Core Engineering 4 |
| 6380 | Clean Energy Systems (Course 1) |
| 6381 | Clean Energy Applications (Course 2) |
| 6382 | Clean Energy Strategies (Course 3) |
| 6383 | Clean Energy Innovations (Course 4) |
| 6386 | Fundamentals of Aerospace Technology |
| 6387 | Advanced Aerospace Technology |
| 6388 | Aeronautics Engineering Applications |
| 6389 | Astronautics Engineering Applications |
| 6090 | Pre-Engineering/Engineering & Industrial Technology Education Internship, work-based credit |
| 6099 | Pre-Engineering/Industrial Technology Education, LBA |
| 6890 | Science, Technology, Engineering & Mathematics Internship, work-based credit |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|-----------------|--|
| 150801 | Aerospace Engineering Technology |
| 149999 | Clean Energy |
| 143501 | Core Engineering |
| 190501 | Food Science |
| 410000 | Innovations in Science and Technology |
| 140101 | Pre-Engineering (Project Lead the Way) |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program.*

Note: The bolded courses followed by the numbers symbol (#) means a new course offering.

Aerospace Engineering Technology

150801

*The Aerospace Engineering Technology CIP- coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Fundamentals of Aerospace Technology**

Advanced Aerospace Technology**

Aeronautics Engineering Applications

Astronautics Engineering Applications

Science, Technology, Engineering & Mathematics (STEM) Internship, work-based credit

Additional approved courses if needed to meet state – recognized program requirements: (Choose three)

PLTW – Introduction to Engineering Design (IED)

PLTW – Principles of Engineering (POE)

PLTW – Aerospace Engineering (AE)

PLTW – Civil Engineering and Architecture (CEA)

PLTW – Computer Integrated Manufacturing (CIM)

PLTW – Computer Science Essentials

PLTW – Computer Science Principles

PLTW – Digital Electronics (DE)

PLTW – Engineering Design and Development (EDD)

PLTW – Engineering Essentials (EE)

PLTW – Environmental Sustainability (ES)

Clean Energy

149999

*The Clean Energy CIP-coded program requires a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

Clean Energy Systems (Course 1)**

Clean Energy Applications (Course 2)**

Clean Energy Strategies (Course 3)

Clean Energy Innovations (Course 4)

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

Core Engineering

143501

*The Core Engineering CIP-coded program requires a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

Core Engineering 1**

Core Engineering 2**

Core Engineering 3

Core Engineering 4

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

Food Science

190501

*The Food Science CIP-coded program requires a minimum of three (3) Carnegie units. The concentrator courses are identified with **.*

Note: At least one of the courses designated with an asterisk (*) should be selected for the three (3) Carnegie unit completer status, if needed to meet state recognized program requirements.

Required Courses:

Food Science 1**

Food Science 2**

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

Foods and Nutrition 1*

Foods and Nutrition 2

Food Processing*

IT Fundamentals

*Nutrition and Wellness**

Sports Nutrition

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

Innovations in Science and Technology**410000**

*The Innovations in Science and Technology CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

The Nature of Science and Technology**

Core Applications of Science and Technology**

Impacts of Science and Technology

Creativity and Innovations

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

Pre-Engineering (Project Lead the Way)**140101**

*The Pre-Engineering (Project Lead the Way) CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Required Courses:

PLTW – Introduction to Engineering Design** and PLTW – Principles of Engineering**

Or

PLTW – Introduction to Engineering Design and PLTW – Engineering Essentials**

Or

PLTW – Engineering Essentials** and PLTW – Principles of Engineering**

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

PLTW – Aerospace Engineering

PLTW – Civil Engineering and Architecture

PLTW – Computer Integrated Manufacturing

PLTW – Computer Science Principles

PLTW – Digital Electronics

PLTW – Engineering Design and Development

PLTW – Environmental Sustainability (ES)

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

Transportation, Distribution & Logistics Cluster

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 for Transportation, Distribution & Logistics Cluster |
|-------------|--|
| 6015 | Introduction to Transportation, Distribution, and Logistics |
| 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 |
| 6191 | Introduction to Logistics |
| 6192 | Functional Areas in Logistics |
| 6193 | Global Logistics Management |
| 6194 | Logistics and Supply Chain Management |
| 6300 | Power Equipment Technology 1 |
| 6301 | Power Equipment Technology 2 |
| 6302 | Power Equipment Technology 3 |
| 6303 | Power Equipment Technology 4 |
| 6310 | Diesel Engine Technology 1 |
| 6311 | Diesel Engine Technology 2 |
| 6312 | Diesel Engine Technology 3 |
| 6313 | Diesel Engine Technology 4 |
| 6790 | Transportation, Distribution & Logistics Internship, work-based credit |
| 6199 | Transportation, Distribution & Logistics, LBA |

| CIP Code | Program Title (See below for the approved courses for each CTE program) |
|----------|---|
| 470603 | Automotive Collision Repair Technology |
| 470604 | Automotive Technology |
| 470605 | Diesel Engine Technology |
| 520203 | Global Logistics & Supply Chain Management |
| 470606 | Power Equipment Technology |

Each state recognized CTE program identified below must include only approved courses listed for each CIP code and must offer the *minimum number of Carnegie units required for the program*.

*All of the Transportation, Distribution, and Logistics programs require a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

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 & Logistics Internship, work-based credit

Automotive Technology 470604

Automotive Technology 1**
Automotive Technology 2**
Automotive Technology 3
Automotive Technology 4
Transportation, Distribution & Logistics Internship, 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 & Logistics Internship, work-based credit

Global Logistics & Supply Chain Management 520203

Introduction to Logistics**
Functional Areas in Logistics**
Global Logistics Management
Logistics and Supply Chain Management
Transportation, Distribution & Logistics Internship, work-based credit

Power Equipment Technology 470606

Power Equipment Technology 1**
Power Equipment Technology 2**
Power Equipment Technology 3
Power Equipment Technology 4
Transportation, Distribution & Logistics Internship, work-based credit

Appendix D

Middle School CTE Courses – Sixth, Seventh and Eighth Grades

Table 1: No High School Credit (Sixth Grade)

| Course Code | Course Title |
|-------------|---|
| 1853 | Digital Literacy |
| 1841 | <i>Deleted</i> |
| 1840 | Industrial Technology Education |
| 1856 | Introduction to Agriculture |
| 1830 | Introduction to Career Clusters |
| 1858 | Exploratory Family and Consumer Sciences |
| 1780 | PLTW – (Gateway to Technology) Design and Modeling |
| 1781 | PLTW – (Gateway to Technology) Automation and Robotics |
| 1782 | PLTW – (Gateway to Technology) App Creators |
| 1783 | PLTW – (Gateway to Technology) Energy and the Environment |
| 1784 | PLTW – (Gateway to Technology) Flight and Space |
| 1785 | PLTW – (Gateway to Technology) Computer Science for Innovators and Makers |
| 1786 | PLTW – (Gateway to Technology) Science of Technology |
| 1787 | PLTW – (Gateway to Technology) Magic of Electrons |
| 1788 | PLTW – (Gateway to Technology) Green Architecture |
| 1789 | PLTW – (Gateway to Technology) Medical Detectives |

Table 2: No High School Credit (Seventh and Eighth Grades)

| Course Code | Course Title |
|-------------|--|
| 2846 | Applications of Science and Technology |
| 2702 | Computer Applications |
| 2853 | Digital Literacy |
| 2705 | Financial Literacy |
| 2845 | Fundamentals of Science and Technology |
| 2841 | <i>Deleted</i> |
| 2704 | Google Basics |
| 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 |
| 2839 | Introduction to Health Professions |
| 2706 | Keyboarding |
| 2703 | Multimedia Basics |
| 2780 | PLTW – (Gateway to Technology) Design and Modeling |
| 2781 | PLTW – (Gateway to Technology) Automation and Robotics |

| Course Code | Course Title |
|-------------|---|
| 2782 | PLTW – (Gateway to Technology) App Creators |
| 2783 | PLTW – (Gateway to Technology) Energy and the Environment |
| 2784 | PLTW – (Gateway to Technology) Flight and Space |
| 2785 | PLTW – (Gateway) Computer Science for Innovators and Makers |
| 2786 | PLTW – (Gateway to Technology) Science of Technology |
| 2787 | PLTW – (Gateway to Technology) Magic of Electrons |
| 2788 | PLTW – (Gateway to Technology) Green Architecture |
| 2789 | PLTW – (Gateway to Technology) Medical Detectives |
| 2791 | Fundamentals of Healthcare # |

Table 3: High School Credit (Seventh and Eighth Grades)

| Course Code | Course Title - Family and Consumer Sciences |
|-------------|---|
| 5800 | Child Development 1 |
| 5808 | Family and Consumer Sciences 1 |
| 5804 | Fashion, Fabric and Design 1 |
| 5824 | Foods and Nutrition 1 |
| 5830 | Housing and Interiors 1 |
| 6108 | Mental Health Fitness # |
| 5759 | <i>Nutrition and Wellness</i> |

Note: Level 1 of Family and Consumer Sciences courses can be offered in the 7th and/or 8th grade for one unit of high school credit. Courses must be taught by a licensed family and consumer sciences teacher.

Table 4: High School Credit (Seventh and Eighth Grades)

| Course Code | Course Title - Computer Science |
|-------------|-------------------------------------|
| 5061 | Discovering Computer Science |
| 5062 | Discovering Computer Science Part 1 |
| 5063 | Discovering Computer Science Part 2 |
| 5023 | Fundamentals of Computing |
| 5028 | Fundamentals of Computing Part 1 |
| 5029 | Fundamentals of Computing Part 2 |

Note: Discovering Computer Science (5061) and Fundamentals of Computing (5023) are offered for one unit of high school credit each. Discovering Computer Science Part 1 and 2 and Fundamental of Computing Part 1 and 2 are offered for 0.5 unit of high school credit each.

Nontraditional CTE Programs

Nontraditional Programs for Females

| CIP Code | Program Title |
|----------|---|
| 010205 | Agricultural Mechanics and Technology |
| 151301 | Architectural/Mechanical Design |
| 150801 | Aerospace Engineering Technology |
| 470603 | Automotive Collision Repair Technology |
| 470604 | Automotive Technology |
| 120402 | Barber/Master Hair Care |
| 140301 | Biosystems Engineering Technology |
| 460000 | Building Construction Cluster |
| 480703 | Cabinetmaking |
| 460201 | Carpentry |
| 149999 | Clean Energy |
| 111003 | Computer and Information Systems Security/Information Assurance |
| 143501 | Core Engineering |
| 470101 | Electronics Technology |
| 470605 | Diesel Engine Technology |
| 460301 | Electricity |
| 430203 | Emergency and Fire Management Services |
| 030101 | Environmental and Natural Resources Management |
| 520203 | Global Logistics & Supply Chain Management |
| 470201 | HVAC Technology |
| 010601 | Horticulture |
| 110104 | Informatics |
| 151202 | Information Support and Services |
| 150613 | Integrated Production Technology |
| 430107 | Law Enforcement Services |
| 480503 | Machine Technology |
| 460101 | Masonry |
| 150404 | Mechatronics Integrated Technologies |
| 100299 | Media Technology |
| 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 |
| 520803 | Banking Services |
| 120401 | Cosmetology |
| 131210 | Early Childhood Education |
| 120409 | Esthetics |
| 190501 | Food Science |
| 120410 | Nail Technology |
| 513999 | Practical Nursing |

Appendix E: Certifications and Descriptions

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. [[COMPTIAMARKETPL](#)]

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. [[NAF](#)]

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. [[AHRI](#)]

[04 – Deleted]

[05 – Deleted]

[06 – Deleted]

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. [[AWS](#)]

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. [[NAF](#)]

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 from hotel management to sports, entertainment, and event management, and includes the study of geography, economics, and world cultures. [[NAF](#)]

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 Student Electronics Technician (SET) for high school students and (2) certification as an Associate Certified Electronics Technician (CETa) 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. [[ETA-I](#)]

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[11 – Deleted]

12 – Certified Nurse Aide (CNA)

The South Carolina Department of Health and Human Services (SCDHHS) contracts with an outside agency to develop, score, and report the results of the-National Nurse Aide Assessment_Program (NNAAP™) 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. [\[CNA\]](#)

[13 – Deleted]

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 Local Area Network (LAN), Wide Area Network (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. [\[CISCO\]](#)

15 – Emergency Medical Technician (EMT) Certification

In South Carolina, there are three levels of Emergency Medical Technician (EMT) Certification: Basic, Advanced, 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 Department of Health and Environmental Control (DHEC) approved EMT program. [\[EMT\]](#) [\[NREMT\]](#)

[16 – Deleted]

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-Section 608 certification, each involving knowledge of EPA regulations relating to refrigerant recovery. [\[ACCA\]](#)

18 – First Responder Certification

First Responder Certification curriculum provides the student with vital training that will permit the rendering of lifesaving techniques at roadside until EMS arrives. [\[NHTSA\]](#) American Safety and Health Institute (ASHI) Emergency Medical Response training program is-designed to provide training to non-EMS responders. It is recognized by the South Carolina Fire Academy and the South Carolina Department of Health and Environmental Control. [\[STATEFIRE\]](#)

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. [[CERTIPORTIC3](#)]

[20 – Deleted]

[21 – Deleted]

[22 – Deleted]

[23 – Deleted]

24 – National Health Science Certificate (NHSC)

The NHSC 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. [[NHSC](#)]

NCCER – [Core Entries 25-31]

Each Local Education Authority (LEA) using NCCER certifications must be an Accredited Training Education Facility (ATEF) approved under an Authorized Training Sponsor (ATS) with an approved certified instructor. Contact the Education Associate responsible for the credential to assist you with any questions. [[NCCER](#)]

25 – NCCER-A/C Ref. Technology

26 – NCCER-Carpentry

27 – NCCER-Electricity

[28 – Deleted]

29 – NCCER-Masonry

30 – NCCER-Plumbing

31 – NCCER-Welding Technology

32 – CompTIA Network+

CompTIA Network+ certification is an international industry credential that validates the knowledge of networking professionals. [[COMPTIA](#)]

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. [[NIMS](#)]

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. [\[EETC\]](#)

35 – Certified Pharmacy Technician (CPhT)

The Pharmacy Technician Certification Board (PTCB) and the Institute for the Certification of Pharmacy Technicians (ExCPT exam), administer national certification examinations. To be eligible for either exam, candidates must have a high school diploma or GED, have participated in a pharmacy technology training program, and no drug or pharmacy related felony convictions at any point. High school students are given a provisional certificate until after graduation when they can apply for the formal certificate. [\[PTCB\]](#) [\[NHANOW\]](#)

[36 – Deleted]

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 passed two national exams, demonstrate a mastery of foundational skills and work 400 mentored hours. [\[SCPROSTART\]](#)

[38 – Deleted]

39 – South Carolina Cosmetology License

The South Carolina Labor Licensing and Regulations (SCLLR) Board of Cosmetology licenses individuals who are qualified by education and/or passage of a board-approved examination into the respective modalities to perform professional cosmetology and cosmetology-related services, to include cosmetologists, estheticians, nail technicians and instructors. [\[SCLLR\]](#)

40 – American Red Cross-Babysitting

American Red Cross-Babysitting is 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. [\[ARC\]](#)

[41 – Deleted]

[42 – Deleted]

43 – Front Desk Representative Certification - Skills, Tasks, and Results Training (START)

The Front Desk Representative certification is supported by START. The online program presents general hospitality knowledge and soft skills needed in the hospitality industry. Successful candidates who complete START for Front Desk Representative online program and pass the 30 multiple-choice questions certification exam with a score of 70% or higher will receive a Certified Front Desk Representative certificate. [\[AHLEIFDR\]](#)

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. [[AHA](#)] [[ARC](#)]

[45 – Deleted]

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. [[HVACE](#)]

47 – Oracle

The Oracle Academy includes such courses as Database Programming with Structured Query Language (SQL), in which students gain an understanding of relational databases through the powerful 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." [[ORACLE](#)]

[48 – Deleted]

49 – ServSafe® Food Handler

The ServSafe® program is developed by the National Restaurant Association with the help of foodservice industry experts. The materials help define food safety best practices because specialists from regulatory agencies, academia, and the foodservice industry to create them. ServSafe materials reflect the latest science, research and *FDA Food Code*. The program covers five key areas: basic food safety, personal hygiene, cross-contamination and allergens, time and temperature, and cleaning and sanitation. [[SERVSAFEFH](#)]

[50 – Deleted]

51 – Certified EKG Technician (CET)

Electrocardiographic (EKG) Technician certification demonstrates specialized training in operating equipment used to measure a patient's heart performance. To be eligible for the exam, candidates must have a high school diploma or GED/high school equivalency and completed an EKG technician training or education program within the last 5 years or 1 year of supervised work experience in an EKG technician field within the last 3 years. High school students are given a provisional certificate until after graduation when they can apply for the formal certificate. [[NHANOWCET](#)]

52 – Certified Phlebotomy Technician

The American Society of Phlebotomy Technicians (ASPT) and National Healthcareer Association (NHA) provides training and certification for phlebotomy technicians. To be eligible for either exam, candidates must have a high school diploma or GED/high school equivalency and completed a Student Reporting Procedures Guide

phlebotomy technician training or education program within the last 5 years or 1 year of supervised work experience in a phlebotomy technician field within the last 3 years. High school students are given a provisional certificate until after graduation when they can apply for the formal certificate. [\[ASPT\]](#) [\[NHANOWCPT\]](#)

[53 – Deleted]

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. [\[ADDA\]](#)

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 National Interstate Council (NIC) of State Boards of Cosmetology provide standardized testing requirements and consistent legal guidelines for the theory and practical examinations. [\[NIC\]](#)

56 – NCCER-Core [see entries 25–31]

Completing NCCER Core, explains the importance of safety in the construction and industrial crafts. Students will learn how to identify and follow safe work practices and procedures and how to properly inspect and use safety equipment. Students will be able to describe the safety practices associated with elevated work; energy release; and various hazards encountered on job sites.

[57 – Deleted]

58 – NCCER-NCCT National Construction Career Test

The National Center for Construction Education and Research (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). [\[NCCER\]](#)

59 – South Carolina Early Childhood Credential

The Level 1 Early Childhood Credential is awarded to those who successfully complete the ECD 101-Introduction to Early Childhood, with a grade of “C” or higher at one of the sixteen technical/community colleges in the state. [\[ECC\]](#)

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 Student Reporting Procedures Guide

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. [\[CCENT\]](#)

[61 – Deleted]

[62 – Deleted]

63 – OSHA 10 General - OSHA 10 Certification

The Occupational Safety and Health Administration (OSHA) 10 General certification promotes safe and healthful working conditions for America's men and women. OSHA 10 certification is valid in all career clusters and may be obtained through certified OSHA instructors, online OSHA certified courses, or certified third party institutions. You may choose the OSHA 10 training that is best suited for your career cluster and setting. This student reporting certification **code** now includes:

OSHA 10- Healthcare-Online Modules (formerly coded A76) [\[OSHA10HC\]](#)

OSHA 10 General-Online Modules (formerly coded 247) [\[OSHA10GENERAL\]](#)

64 – Certified Associate in Project Management (CAPM)

Certified Associate in Project Management (CAPM) is a credential offered by the Project Management Institute (PMI) as a professional-level certification aimed at industry professionals. This certification entails that professionals have learned theories, tools, and techniques used to ensure project success: task organization and sequencing; schedule development; critical path methods, milestone, PERT, and Gantt charts; reverse planning methods; and cost, performance, and client considerations. [\[PMICAPM\]](#)

[65 – Deleted]

66 – Broad Field Family and Consumer Sciences

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. [\[PREPACBFCS\]](#)

67 – Early Childhood Education

The Early Childhood Education Assessment/Certification is driven by industry standards and based on relevant content standards developed by the National Association for the Education of Young Children. The competencies are consistent with the National Standards for Family and Consumer Sciences Education and the National Education and Training Career. Cluster. [\[PREPACECE\]](#)

68 – Personal and Family Finance

The Personal and Family Finance Assessment/Certification is an end-of-program assessment based on relevant content standards developed by the Jump\$tart Coalition for Personal Financial Literacy and consistent with the National Standards for Family and Consumer Sciences Education and Human Services National Education and Training Career Cluster. [\[PREPACPFF\]](#)

69 – Culinary Arts

The Culinary Arts Assessment/Certification is an end-of-program assessment driven by industry standards and requirements and based on relevant content standards. The competencies are consistent with the National Standards for Family and Consumer Sciences Education and the Hospitality and Tourism National Career Clusters. [[PREPACCA](#)]

70 – Education Fundamentals

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. The competencies are based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Education and Training National Career Cluster. [[PREPACEF](#)]

71 – Family and Community Services

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. The competencies are driven by industry standards and based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Human Services National Career Cluster. [[PREPACFCS](#)]

72 – Fashion, Textiles, and Apparel

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. The competencies are driven by industry standard, based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Arts/AV Technology and Communication National Career Cluster. [[PREPACFTA](#)]

73 – Interior Design Fundamentals

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. The competencies are driven by industry standard, based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Arts/AV Technology and Communication National Career Cluster. [[PREPACID](#)]

74 – Nutrition, Food, and Wellness

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. The competencies are driven by industry standards and requirements; based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Human Services National Career Cluster. [[PREPACNFW](#)]

75 – Housing and Furnishings

The Housing and Furnishings Assessment/Certification is an end-of-program assessment that addresses knowledge and skills necessary for success as a pre-professional in housing and furnishing careers. The competencies are driven by industry standards and requirements; based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Human Services National Career Cluster. [[PREPACHF](#)]

76 – Food Science Fundamentals

The Food Science Fundamentals Assessment/Certification is an end-of-program assessment that addresses knowledge and skill sets necessary for success as a pre-professional in a career with a substantial focus on food science. The competencies are driven by industry standards and requirements; based on relevant content standards and consistent with the National Standards for Family and Consumer Sciences Education and the Science, Technology, Engineering, and Mathematics National Career Cluster. [\[PREPACFSF\]](#)

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. [\[S/P2\]](#)

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. Students can choose one certification from the two listed below to become obtain S/P2 national certification: Automotive Service Safety and Automotive Service Pollution Prevention. [\[S/P2\]](#)

[79 – Deleted]

80 – Adobe Certified Professional (ACP) Visual Design using 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. [\[ACPPHOTOSHOP\]](#)

81 – Adobe Certified Professional (ACP) 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. [\[ACPDREAMWEAVER\]](#)

[82 – Deleted]

83 – Adobe Certified Professional (ACP) 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.

[ACPPREMIEREPRO]

[84 – Deleted]

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. 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.

[MICROSOFT]

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Microsoft Office Specialist (MOS) Certifications

MOS certifications help validate proficiency in using Microsoft Office 2016 and meet 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. [MICROSOFT]

100 – MOS Office 2016-Word 2016

101 – MOS Office 2016-Word 2016 Expert

102 – MOS Office 2016-Excel 2016

103 – MOS Office 2016-Excel 2016 Expert

104 – MOS Office 2016-PowerPoint 2016

105 – MOS Office 2016-Access 2016

106 – MOS Office 2016-Outlook 2016

107 – ASE Medium/Heavy Duty Diesel Engine

This certification will identify and recognize those Medium and Heavy Truck Technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair different systems of Class 4 through Class 8 trucks and tractors. [\[ASE\]](#)

108 – Commercial Learner’s Permit

To be eligible for a commercial learner's permit (CLP), all of the following are required: be a permanent resident of South Carolina, must be 18 or older and have a valid, unexpired SC driver's license. The holder of a CLP, unless otherwise disqualified may drive a commercial motor vehicle, but only when accompanied by the holder of a valid CDL with applicable endorsement which are for the type vehicle being driven, and who occupies the seat beside the individual for the purpose of giving instruction in driving the commercial vehicle. [\[SCDMVCLP\]](#)

109 – I-CAR ProLevel 1

Estimators are expected to learn and refine the following areas as they complete each I-CAR®ProLevel™: Write a complete and accurate damage analysis report for front, side, and rear impact damage on drivable vehicles, work safely around hybrid vehicles, analyze damage to restraint systems, coordinate parts ordering and scheduling, understand the automotive refinish process, diagnose simple electrical damage, analyze damage to advance materials and identify hail, theft, and vandalism damage. [\[I-CAR\]](#)

110 – I-CAR ProLevel 2

Analyze front, side, and rear impact damage on non-drivable vehicles, analyze damage to advanced safety systems and advanced electrical/mechanical systems, stationary glass damage analysis and replacement considerations, identify flood and fire damage and strongly encourage to maintain ASE Estimator (B6) certification. [\[I-CAR\]](#)

111 – I-CAR ProLevel 3

Perform a tear-down for complete damage analysis, analyze damage to advanced steering and suspension systems, strongly encouraged to obtain ASE certification, beyond the Estimator (B6) certification and receive role-relevant annual training. [\[I-CAR\]](#)

112 – I-CAR Advance High Strength Steel (AHSole)

Vehicle makers are using stronger and lighter-weight steels to increase passenger safety and vehicle fuel mileage. Because of the higher strength, these steels provide unique repair challenges. This program provides an overview of the different types of steels used in late model vehicle construction, addresses reparability concerns, and provides some vehicle maker recommendations on proper repair techniques. [\[I-CAR\]](#)

113 – I-CAR Automotive Foams (FOM01)

This online self-study is designed to help better understand the following collision repair-related concepts: understand uses and application procedures for automotive foam understand structural foam considerations and curing methods, identify procedures related to installation of expandable foam, understand how to choose correct, replacement materials, and know how to work safely around automotive foams. [\[I-CAR\]](#)

114 – I-CAR Automotive Lighting (LSC04e)

Learning objectives for this module include explaining repair consideration for headlamps, as well as information on switches and lighting circuits. The final module describes positions of lighting in vehicles and collision related problems with lighting. The student will also learn information on switches and bulbs, identify interior and exterior lamps, as well as different types of headlamps, describe repair considerations around operation and repair of headlamps and understand collision related problems in exterior and interior lighting. [\[I-CAR\]](#)

115 – I-CAR Bolt-On-Exterior Panel Part 1 (EXT03e)

The course begins by examining considerations around panel alignment and repair considerations. The student will gain insight into tools used for repairing and replacing door hinges. Additionally, students will learn about considerations around replacement parts and recycled automotive parts; identify and understand considerations around working with bolted-n exterior panel replacement parts, understand removal and installation procedures for doors, analyze and diagnose the source of leaks and understand how to install weather stripping. [\[I-CAR\]](#)

116 – I-CAR Bolt-On-Exterior Panel Part 2 (EXT04e)

The course opens by discussing steps for identifying and replacing various front body panels, as well as how to properly align front body panels in the collision repair process. The second module in the course explores the removal, installation, and replacement of different style rear body panels; identify and understand considerations around working with bolted-on exterior panel replacement parts, understand considerations around replacing bumpers, hoods, and fenders, understand considerations around removing and installing rear closure panels. [\[I-CAR\]](#)

117 – I-CAR Corrosion Protection (CPS01)

This online self-study is designed to help better understand the following collision repair-related concepts: recognize causes of corrosion and understand the corrosion protection processes of manufacturers, identify the steps required in determining where to apply anti-corrosion compounds and undercoating, understand the considerations for properly preparing parts for corrosion protection coatings, explain how to apply corrosion protection materials, identify the function and location of chip-resistant coating and how to replace it during the repair process, identify seam sealer characteristics and applications and identify the different corrosion protection recommendations from the different vehicle makers. [\[I-CAR\]](#)

118 – I-CAR Cosmetic Straightening Steel (STS01)

This online self-study is designed to help better understand the following collision repair-related concepts: identify characteristics and considerations for steel repairs, examine different types of damage and understand repair procedures, understand procedures and considerations for application of Paintless Dent Repair (PDR). [\[I-CAR\]](#)

119 – I-CAR Detailing (REF04)

This online self-study is designed to help better understand the following collision repair-related concepts: perform a thorough vehicle inspection and identify defects in a vehicle finish, be able to remove finish defects by using the proper removal procedures and understand interior and exterior detailing. [\[I-CAR\]](#)

120 – I-CAR Hazardous Air Pollutant Reduction (HAP01e)

The program explains the requirements of the EPA regulations and evaluate how they apply to specific businesses, identify hazardous air pollutants (HAP) and how they can affect public health and the environment, understand how to use personal protection equipment, identify ways to reduce the amount of methylene chloride (MeCl) paint stripper, identify equipment that reduces the amount of HAP, identify spray application techniques and gun adjustments that reduce the amount of HAP released into the environment, understand spray gun cleaning requirements, understand spray booth requirements and filter maintenance schedules material. [\[I-CAR\]](#)

121 – I-CAR Hazardous Material Storage and Disposal (HWD01e)

Vehicles require using many different liquid and solid materials that may result in hazardous waste generation. The Liquid and Solid Hazardous Waste Storage and Disposal Overview Online Training program will present information about identification, handling, storage, and disposal of hazardous waste; identify hazardous waste, determine proper storage and disposal of hazardous waste and maintain proper hazardous waste records. [\[I-CAR\]](#)

122 – I-CAR Hazardous Materials, Personal Safety, Refinish Safety (WKR01)

Incorporate basic procedures for safety and preventive measures in a shop environment, understand the importance of labeling and when workplace labeling is required, identify hazardous material exposures and learn storage regulations, understand how to use personal protective equipment and emergency handling equipment, identify hazardous waste types and waste regulations, select and use proper personal protective equipment and identify proper storage requirements hazardous waste materials. [\[I-CAR\]](#)

123 – I-CAR Intro to Construction Materials (ICM00e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: steel, aluminum and magnesium, plastics, carbon fiber and collision energy management. [\[I-CAR\]](#)

124 – I-CAR Intro to Mechanical Repair Terms and Vehicle Protection (IMV00e)

This online self-study course contains five modules designed to better understand the following collision repair-related concepts: electrical, mechanical, steering and suspension systems, protecting electronic systems and preventing vehicle damage during repair. [\[I-CAR\]](#)

125 – I-CAR Intro to Mechanical System Terminology Part 1 (IMT01e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: steering, wheels and tires, brakes and stability control. [\[I-CAR\]](#)

126 – I-CAR Intro to Mechanical System Terminology Part 2 (IMT02e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: suspension, drivetrain, heating and cooling and air conditioning. [\[I-CAR\]](#)

127 – I-CAR Intro to Personal Safety (IPS00e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: general protection, structural repairs, non-structural repairs and hybrids. [\[I-CAR\]](#)

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128 – I-CAR Intro to Refinishing and Corrosion Protection Part 1 (IRC01e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: vehicle maker processes, refinishing terms, refinish materials and personal safety. [\[I-CAR\]](#)

129 – I-CAR Intro to Refinishing and Corrosion Protection Part 2 (IRC02e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: refinishing tools, refinishing preparation, refinishing defects and corrosion protection. [\[I-CAR\]](#)

130 – I-CAR Intro to Repair Process (IRP00e)

This online self-study is designed to help better understand the following collision repair-related concepts: damage analysis and vehicle repair preparation, structural repair, on-structural repair, refinishing and corrosion protection, post-repair inspection and delivery. [\[I-CAR\]](#)

131 – I-CAR Intro to Repair Terminology (IRT00e)

This online self-study course contains five modules designed to better understand the following collision repair-related concepts: non-structural, structural, structural part replacement, glass and damage report writing. [\[I-CAR\]](#)

132 – I-CAR Intro to Safety Systems (ISS00e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: airbags, seat belts and child safety seats, occupant classification, and additional systems. [\[I-CAR\]](#)

133 – I-CAR Intro to Tools, Equipment and Attachment Methods Part 1 (ITM01e)

This online self-study course contains five modules designed to better understand the following collision repair-related concepts: basic tools-part 1, basic tools-part 2, mechanical fastening, glass, trim, and estimating tools and processes. [\[I-CAR\]](#)

134 – I-CAR Intro to Tools, Equipment and Attachment Methods Part 2 (ITM02e)

This online self-study course contains five modules designed to better understand the following collision repair-related concepts: measuring and straightening, welding, welding methods, panel bonding and capital equipment. [\[I-CAR\]](#)

135 – I-CAR Intro to Vehicle Parts Terminology Part 1 (IVT01e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: bumpers, front body, and roof panels, doors, rear closure panels, box assemblies, and exterior trim lighting. [\[I-CAR\]](#)

136 – I-CAR Intro to Vehicle Parts Terminology Part 2 (IVT02e)

This online self-study course contains four modules designed to better understand the following collision repair-related concepts: front unibody structures and full frames, side and rear unibody structures, interior, and glass. [\[I-CAR\]](#)

137 – I-CAR Movable Glass (GLA01)

This online self-study is designed to help better understand the following collision repair-related concepts: Identify the roles of movable glass in vehicles and types of drive mechanisms, understand considerations for replacing rear body and side door glass, describe parts of window regulators and window channels, understand removal and replacement considerations for sunroofs and removable glass panels, know how to complete post-collision inspection processes, analyze damage and troubleshoot for glass and electrical problems. [\[I-CAR\]](#)

138 – I-CAR New Vehicle Technology and Trends 2016 (New16)

Understand the latest trends and industry influences, know what features and technologies to expect including vehicle materials and designs, safety features, and fuel-saving strategies, covers North American, Asian, and European vehicles to avoid surprises during the repair procedure, gain insight into repair procedures for several 2016 model vehicles. [\[I-CAR\]](#)

139 – I-CAR Plastic and Composite Repair (PLA03)

This online self-study is designed to help better understand the following collision repair-related concepts: Identify different types of plastics by their characteristics and determine the level of plastic identification that is required to perform a repair, understand correct preparation procedures for plastics, identify different types of plastics used on today's vehicles and the correct methods to repair each, recognize proper adhesives for different repairs and when to use adhesion promoter, perform one-and two-sided plastic adhesive repairs and mounting tab repairs, understand the considerations around refinishing plastic parts, identify the types of plastic welds in automotive applications, identify welding equipment and its uses, explain how hot air welds and airless welds are made, identify differences between a fusion weld and an adhesion weld. [\[I-CAR\]](#)

140 – I-CAR Refinishing Equipment (REF01e)

This online self-study is designed to help better understand the following collision repair-related concepts: Understand safety precautions when working with a spray gun, identify different types of designs of spray guns and understand their setup procedures, understand how to work safely around compressed air and know how to work with mixing tools and mixing ratios. [\[I-CAR\]](#)

141 – I-CAR Removing and Installing Exterior Trim, Pinstriping, and Decals (TRM03e)

This online self-study is designed to help better understand the following collision repair-related concepts: describe methods for application and removal of pinstripes and decals, explain processes for installing door trim panels, handles, and lock cylinders, identify interior and exterior parts and understand how to remove and replace them. [\[I-CAR\]](#)

142 – I-CAR Removing and Installing Interior Trim (TRM02e)

This online self-study is designed to help better understand the following collision repair-related concepts: identify hardware and understand correct use and understand how to work with trim and moldings. [\[I-CAR\]](#)

143 – I-CAR Surface Preparation and Masking (REF02e)

This online self-study is designed to help better understand the following collision repair-related concepts: identify refinish and finish materials, understand how to develop a refinishing plan, understand how to mask and remove parts, know how to prepare substrates and apply primers, recognize procedures for making a test panel and specialty spray areas. [\[I-CAR\]](#)

144 – I-CAR Waterborne Products, Systems and Applications (REF07)

Explain why waterborne products are used and which waterborne products are available, understand the difference between waterborne and solvent-borne refinishing materials, including waterborne characteristics and benefits, identify the environmental impact and reasons for converting to waterborne refinishing materials, understand preparation, mixing, and application considerations, explain the facility requirements for making the conversion to waterborne refinishing materials and recognize proper storage and disposal procedures of waterborne materials. [\[I-CAR\]](#)

[145 – Deleted]

North American Technicians Excellence (NATE)

NATE certification tests represent real world working knowledge of HVACR systems. Developed by a committee of industry experts nationwide, our NATE exams represent HVACR topics pertinent to contractors, educators, manufacturers and utilities alike. All of the NATE tests are rigorous, multiple-choice, knowledge-based tests and validate a technician's knowledge. NATE candidates may earn Installation and/or Service certification in one or more Specialty areas. [\[NATE\]](#)

146 – NATE-Air Conditioning [\[NATE\]](#)

[147 – Deleted]

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158 – QuickBooks Certified User

QuickBooks is one of the best-selling versions of small business financial software. QuickBooks certification is proof to clients or employers that you are proficient using QuickBooks. You become QuickBooks certified by passing Intuit's QuickBooks Certification Exam. [\[CERTIPORT\]](#)

159 – S/P2 Ethics and You in the Automotive Industry

This certification addresses the everyday challenges of making ethical decisions in the workplace, in order to help change the way the automotive industry is perceived through education and training. This course will help prepare employees and owners to make better choices, act appropriately and avoid problems. [\[SP2 ETHICS\]](#)

160 – ACE-Web Communications with Animate CC

Adobe Certified Associate- Animate CC is an entry-level certification aimed at validating communication skills in multi-platform animations. The Rich Media Communication with Adobe Animate® Professional exam validates entry-level skills in Adobe Animate CC software. [\[CERTIPORT\]](#)

161 – SCFA Certificate NFPA 1001 Firefighter I-1196

SCFA Certificate NFPA 1001 Firefighter I requires these additional certifications: First Aid/CPR/AED; IFSAC NFPA 1001 Firefighter I-4501 (third party credentialing) and IFSAC Hazardous Materials Awareness-4520 (third party credentialing). [[AHA](#)] [[ARC](#)] [[STATELLRSC](#)]

162 – SCFA Certificate NFPA 1001 Firefighter II-1197

SCFA Certificate NFPA 1001 Firefighter II requires these additional certifications: IFSAC NFPA 1001 Firefighter II-4502 (third party credentialing); IFSAC Hazardous Materials Operations Core & MSC PPE (6.2)-4522 (third party credentialing); and IFSAC Hazardous Materials Operations MS 6.2 & 6.6-4523 (third party credentialing). [[STATELLRSC](#)]

[163 – Deleted]

[164 – Deleted]

165 – SCFA Certificate Auto Extrication – 3330

This course addresses the NFPA 1001 (Firefighter II) objectives for auto extrication that every firefighter needs. The course material addresses extrication incident management, vehicle science anatomy, extrication equipment, and techniques for passenger vehicles. The hands-on skill sessions include extrication tool familiarization, vehicle stabilization techniques for passenger vehicles, vehicle glass, door, and roof removal as well as dashboard displacement techniques. Successful students receive a SCFA certificate. [[STATELLRSC](#)]

166 – Certified Clinical Medical Assistant

A medical assistant is a multi-skilled allied health care professional that specializes in procedures commonly performed in the ambulatory health care setting. Medical assistants perform both clinical and administrative duties and assist a variety of providers including physicians, nurse practitioners and physician assistants. They typically work in medical offices, clinics, urgent care centers and may work in general medicine or specialty practices. Some of the duties include vital signs, injections, assisting with patients, electronic health records, phlebotomy, EKG's and Laboratory. Two of the certifying agencies are [[NHANOW](#)] [[AAMA-NTL](#)]

167 – CIW Web Security Associate

The CIW Web Security Associate certification validates that one knows how to secure a network from unauthorized activity. This certification validates one's knowledge of security principles, such as establishing an effective security policy, and about the different types of hacker activities that you are most likely to encounter. Individuals with these security skills can pursue or advance careers in many aspects of online and network security. [[CIWSDA](#)]

168 – Entrepreneurship and Small Business Certification

The ESB certification is built to test and validate foundation-level concepts and knowledge in entrepreneurship and small business management. The core concepts include entrepreneurship; recognizing and evaluating opportunities; planning for, starting, and operating a business; marketing and sales; and financial management. [[CERTIPORT-ESB](#)]

169 – Pre-Engineering Certification

The Pre-Engineering Certifications are based on the knowledge that students should demonstrate after 150 hours of high school-level coursework focusing on basic fundamentals. The content is based around basic coursework and experience, not from any specific textbook, curricula, or software. The Student Reporting Procedures Guide

Pre-Engineering Certification requires completion of the Fundamentals of Engineering module, in addition to two of the eight listed Engineering Modules. [\[ROBOTICS-ED\]](#)

170 – Robotics Certification

The Robotics Certifications are based on the knowledge that students should demonstrate after 150 hours of high school-level coursework focusing on basic fundamentals. Fundamental of Engineering is required and must select mechanical, programming and electrical for the Robotics Certifications. Students earn both the Pre-Engineering and the Robotics Certifications by completing all required modules for the Robotics Certification. [\[ROBOTICS-ED\]](#)

171 – Certified Production Technician

The Manufacturing Skill Standards Council (MSSC) credentialing system leading to a CPT covers the four critical production functions, as defined by MSSC’s industry-led, nationally validated skills standards, common to all sectors of manufacturing. The four critical functions are Safety Quality, Practices & Measurement, Manufacturing Processes & Production, and Maintenance Awareness. An individual can earn a “Certificate” if they pass one or more assessments. However, they must pass all four assessments to earn the full “CPT” certification. [\[CPT–MSSC\]](#)

172 – Siemens Mechatronics Systems Certification

Siemens Mechatronics Systems Level 1 Certification consists of four standardized courses: Course 1: Electrical Components Course, 2: Mechanical Components and Electrical Drives, Course 3: (Electro) Pneumatic and Hydraulic Control Circuits and Course 4: Digital Fundamentals and PLCs. The student will be awarded the certification of Siemens Certified Mechatronic Systems Assistant by successfully passing the Level 1 Certification Examination. [\[Siemens\]](#) [\[Siemens-SMSCP\]](#)

ASE STUDENT CERTIFICATION

ASE student certification is the first step in building a career as a service professional in the automotive industry. Making the completion of career-entry studies in automotive technology, collision repair and refinishing, or medium/heavy-duty trucks, these tests can provide the student with their first industry certification through the National Institute for Automotive Service Excellence. [\[ASE\]](#)

[173 – Deleted]

[174 – Deleted]

175 – ASE: Automobile & Light Truck Certification Tests (A Series)

[176 – Deleted]

177 – ASE: Collision Repair & Refinish Certification Tests (B Series)

178 – ASE: Damage Analysis & Estimating Certification Test (B6)

[179 – Deleted]

[180 – Deleted]

[181 – Deleted]

182 – ASE: Medium-Heavy Truck Certification Tests (T Series)

183 – ASE: Parts Specialist Certification Tests (P Series)

[184 – Deleted]

[185 – Deleted]

[186 – Deleted]

[187 – Deleted]

188 – ASE: Non-Certification Assessments

189 – ASE: Auto Maintenance and Light Repair Certification Test (G1)

190 – ASE: Auto Collision Repair-Structural Analysis and Damage Repair

191 – ASE: Auto Collision Repair-Mechanical and Electrical Components

192 – ASE: Auto Collision Repair-Painting and Refinishing

193 – ASE: Auto Collision Repair-Non-Structural Analysis and Damage Repair

194 – ASE: Auto Technology-Brakes

195 – ASE: Auto Technology-Suspension & Steering

196 – ASE: Auto Technology-Electrical/Electronic Systems

197 – ASE: Auto Technology-Engine Performance

198 – ASE: Auto Technology-Engine Repair

199 – ASE: Auto Technology-Automatic Transmission/Transaxles

200 – ASE: Auto Technology-Manual Drivetrains

201 – ASE: Auto Technology-Heating & Air Conditioning

202 – ASE: Auto Technology-Maintenance & Light Repair

203 – NATE-Senior HVAC Efficiency Analyst [NATE]

See North American Technicians Excellence (NATE)

[204 – Deleted]

[205 – Deleted]

206 – Bing Ads-Microsoft Meta Advertising Certification

The Bing Ads program shows you how to get the most of your ad spend, so you gain more from your marketing dollars. Focused on Search Engine Marketing: increase your Bing Ads proficiency, optimize ad campaigns, enjoy member benefits and maximize your Bing Ads reporting & tools knowledge. [BINGADS]

Guest Service Gold®

Through Guest Service Gold®, trainees learn how to anticipate guest needs, deliver memorable experiences, and turn around difficult situations. No time in position is required to earn the certification, giving your students a marketable edge when applying for their first hospitality job.

[AHLEIGSG]

207 – Guest Service Gold® Making Connections [AHLEIMC]

208 – Guest Service Gold® Golden Opportunities [AHLEIGO]

209 – Guest Service Gold® Tourism [AHLEITOU]

210 – Certified Guest Service Professional

The Certified Guest Service Professional (CGSP®) designation provides recognition for those individuals who know how to deliver exceptional service by engaging with their guests and creating memorable experiences. Recognized worldwide, the CGSP® designation is the highest acknowledgment of awarding-winning guest service for employees in the hospitality and tourism industry. To qualify for the Certified Guest Service Professional (CGSP®) designation individuals must successfully complete one of AHLEI's Guest Service Gold® training programs. [[AHLEICGSP](#)]

211 – Facebook (Meta) Certified Planning Professional

This exam measures competency in the skills, tools, advertising policies and best practices required to manage Facebook pages, create, purchase and manage ads, select and use advertising objectives, target audiences for maximum impact, and understand the role of Facebook media planners and buyers. [[FB](#)]

212 – Google Advertising Fundamentals Exam (Google AdWords)

Google Ads Certifications allows students to demonstrate their mastery of Google Ads by getting certified in Search, Display, Video, Shopping Ads, Apps, and Measurement. Students must acquire all certifications to acquire the credential in Google AdWords. [[GOOGLEAW](#)]

213 – Google Analytics Academy

The Google Analytics IQ exam is designed to test your knowledge of digital analytics best practices and the Google Analytics platform. All three sections must be completed to acquire the credential. [[SUPPORTGOOGLE](#)]

214 – Retail Industry Fundamentals, National Retail Federation

The Retail Industry Fundamentals credential helps train and advance both entry-level retail associates and first-time job seekers. It is an industry-led and validated program that focuses on five core areas: Basic work fundamentals, The Business of Retail, Customer Focus, Getting and Keeping Jobs in Retail and Selling. [[RIF-NRF](#)]

215 – Biotechnician Assistant Credentialing Exam (BACE)

The BACE is an industry-recognized exam designed to assess core skills and knowledge sets identified by industry and represented within the academic and performance standards of secondary biotechnology programs. The exam was originally vetted by the state of Florida's industry organization, BioFlorida; which represents more than 3,000 companies and research organizations in the biotechnology, pharmaceuticals, medical devices, and bioagriculture sectors. Since its creation, BACE has been assessed by national and international companies as other states adopt the exam. Information for this exam and a crosswalk with PLTW Biomedical Science can be found on their website. [[BACE](#)]

216 – Briggs & Stratton Master Service Technician Certification

Endorsed by Briggs and Stratton, this certification provides students with a solid understanding of four stroke small engines theory, parts, assemblies, engine design, carburetors, ignition systems, lubrication systems, starters, governor system theory, compression systems, troubleshooting, failure analysis, repowering, warranty claims, and customer service. This certification helps those students who want to work in the small engines industry to place themselves in a better position to become employed. The certification is offered by Briggs and Stratton and requires a student must pass five tests which contain 70 questions on the following topics: Theory and General Knowledge, Troubleshooting and Diagnostics, Failure Analysis and Warranty, Repowering, and Products. Teachers will need to be

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registered user of the Briggs and Stratton Power Portal website to register their students to have accounts. [[POWERPORTAL](#)]

217 – The American Boat and Yacht Council (ABYC)

The ABYC offers a variety of certification courses, many of which pertain directly to marine mechanics. ABYC's Certified Technician program sets the precedent for education in the marine industry. Certifications include: ABYC Standards, Marine Systems, Marine Electrical, Marine Corrosion, Diesel Engines, Gasoline Engines, Marine Composites and A/C Refrigeration.

[[ABYC](#)]

218 – Apple Certified iOS Technician (ACiT)

This AppleCare Certification qualifies a technician to repair all iPhone models, Apple Watch and other IOS devices. [[APPLE](#)]

219 – Apple Certified Mac Technician (ACMT)

This AppleCare Certification qualifies a technician to repair all MAC products including MacBook and MacBook Pro. [[APPLE](#)]

220 – Apple Final Cut Pro X Professional Post-Production

The Final Cut Pro X 10.3 Professional Post-Productions course is designed to provide students with a real-world workflow from raw media, to finished project, to demonstrating the features of Final Cut Pro X 10.3 and the practical techniques you will use in editing projects. Apple's professional applications are the industry standard for photographers, editors, sound designers, visual effects and multimedia artist. [[APPLE](#)]

221 – Apple Logic Pro Professional Music Production

This Logic Pro X 10.3 Professional Music Production course is designed to provide students with the ability to record, arrange, mix produce, and polish music. They will learn to record audio and Musical Instrument Digital Interface (MIDI), create and edit sequences, and master mixing and automation techniques such as submixing with Track Stacks or the practical uses of true stereo panning. Apple's professional applications are the industry standard for photographers, editors, sound designers, visual effects and multimedia artists. [[APPLE](#)]

222 – Basic Auto Extrication Firefighter

This course addresses the NFPA 1001 (Firefighter II) objectives for auto extrication that every firefighter needs. The course material addresses extrication incident management, vehicle science anatomy, extrication equipment, and techniques for passenger vehicles. The hands-on skill sessions include extrication tool familiarization, vehicle stabilization techniques for passenger vehicles, vehicle glass, door, and roof removal as well as dashboard displacement techniques. Successful students receive a SCFA certificate. [[SCDLLR](#)]

223 – CATIA V5 Part Design Certificate

As a Certified CATIA V5 Part Design Expert, you can boost your competitive advantage by validating your advanced level of expertise. This certification demonstrates that you have extensive knowledge and hands-on experience in leveraging the optimum results from CATIA solutions. [[CATIAV5](#)]

224 – Certified LabVIEW Associate Developer (CLAD)

CLAD is a very well-known and promising certification exam which is being demanded by hundreds of IT enterprises. Today, IT enterprises are more interested to hire individuals that have already certified their IT related skills with NI certifications. [\[CLAD\]](#)

225 – Certified Technology Specialist Design (CTS-D)

A Certified Technology Specialist Design (CTS-D) is an AV systems designer who assesses client's needs, designs AV systems, prepares AV design documents, coordinates and collaborates with other professionals to create AV systems that satisfy client's requirements. [\[AVIXA\]](#)

226 – Certified Technology Specialist Installation (CTS-I)

A Certified Technology Specialist Installation (CTS-I) installs and maintains audiovisual systems by following specifications, schematics, codes and safety protocols; administering installation process logistics; troubleshooting and problem-solving systems; maintaining tools and equipment and communicating with clients, designers, other trades, other installers and staff to provide the best audiovisual solutions for client needs on time and within budget. [\[AVIXA\]](#)

227– Certified Technology Specialist (CTS)

A Certified Technology Specialist (CTS) performs general technology task by creating, operating, and servicing AV solutions. Conducting AV management activities that provide for the best audiovisual resolutions of the clients, both on time and within budget. [\[AVIXA\]](#)

228 – EETC Principles of Small Engine Technology Certification

Students can now receive the Engine Equipment Training Council (EETC) Principles of Small Engine Technology Certification. Featuring demonstrations and materials from practicing technicians and trainers. The certification addresses major topics related to small engine technology. [\[EETCPSET\]](#)

229 – EPA Section 609 Certification

Section 609 of the Federal Clean Air Act requires technicians who service motor vehicle air conditioning “MVAC” systems to be certified. Servicing motor vehicle air conditioning includes repairing, leak testing, and topping off air conditioning systems low on refrigerant as well as any other repair to the vehicle, which requires dismantling any part of the air conditioner. [\[EPA\]](#)

230 – Forklift Operator

OSHA Forklift Certification and Forklift Training Program with CertifyMe.net's forklift training and certification program, you can promote safety in your workplace, certify forklift operators without sending them away for training and print certificates and operator cards on the same day. [\[CERTIFYME\]](#)

231 – Hazardous Materials Awareness (Firefighter)

Standard for Competence of Responders to Hazardous: Materials/Weapons of Mass Destruction Incidents competencies. Provides the student with the knowledge needed to protect firefighters, and others, at hazardous materials incidents. Successful students receive a SCFA certificate and are eligible to take the HMA level accredited exam. [\[SCDLLR\]](#)

232 – Hazardous Materials Operations (Firefighter)

Hazardous Materials Operations is designed to train the student to the level of NFPA 472 chapter 5 core competencies for operations level and 6.2 and 6.6 mission specific competencies required by Student Reporting Procedures Guide

NFPA 1001 for Firefighter I. Includes; introduction to properties and hazards of hazardous materials, identification, incident management elements, strategic goals and tactical objectives, personal protective equipment, contamination and decontamination, incident specific strategies and tactics and terrorist and other criminal activities. [[SCDLLR](#)]

233 – Hybrid Firefighter I Class Code 1402

The Hybrid Firefighter I Class Code 1402 course is a hybrid version of the traditional NFPA Firefighter I course. This hybrid course includes independent online studies with supplemental instruction, instructor-led skill developmental sessions, and the NFPA Firefighter I Final Exam. [[SCDLLR](#)]

234 – Hybrid Firefighter II Class Code 1403

The Hybrid Firefighter II is a hybrid version of the traditional NFPA supplemental instruction NFPA Firefighter II course. This hybrid course includes independent online studies with supplemental instruction, instructor-led skill development sessions, and the NFPA Firefighter II final examination. [[SCDLLR](#)]

235 – LEAN (Six Sigma) Manufacturing Certification

An effective method, which is used to lessen the wasteful or unnecessary steps within the manufacturing process. This method can both cut down on unnecessary expenses and accelerate production time. Accelerating production is extremely important. Therefore, numerous reputed organizations are offering certificate courses for their employees in order to improve and enhance the business. The lean method enhances the flexibility and diversity of products which results in accelerated production and a significant reduction of defects. With the help of 6 Sigma, these multi-national manufacturing companies can turn their business around and access success within the industry. [[LEAN](#)]

Manufacturing Skill Standards Council

The Manufacturing Skill Standards Council (MSSC) credentialing system leading to a CPT covers the four critical production functions, as defined by MSSC’s industry-led, nationally validated skills standards, common to all sectors of manufacturing: Safety, Quality & Continuous Improvement, Manufacturing Processes & Production, and Maintenance Awareness. Each area is addressed with a separate assessment. MSSC training and assessments are organized around those four modules. An individual can earn a “Certificate” if they pass one or more assessments. However, they must pass all four assessments to earn the full “CPT” certification. [[MSSC](#)]

236 – MSSC: CPT Maintenance Awareness

237 – MSSC: CPT Manufacturing Processes and Production

238 – MSSC: CPT Quality Practices

239 – MSSC: CPT Safety

240 – NOCTI: HBI-Home Builders Institute Student Certification

HBI (Home Builders Institute) is a national leader for career training in the building industry, preparing students with the skills they need for successful careers in the industry. HBI’s educational materials are designed to be relevant in today’s rapidly changing environment, bringing increased professionalism, competency and effectiveness to those entering the residential building workforce. [[NOCTI](#)]

National Coalition of Certification Center

The National Coalition of Certification Center (NC3) was established to address the need for strong industry partnerships with educational institutions in order to develop, implement and sustain industry-recognized portable certifications that have strong validation and assessment standards. The following courses can be taken through Snap-on/NC3: [\[NC3\]](#)

241 – Snap-on/NC3: 504 Multimeter Certification

242 – Snap-on/NC3: ShopKey Pro Service & Repair Information Level 1

243 – Snap-on/NC3: ShopKey Pro & SureTrack Advanced Level 2

244 – Snap-on/NC3: Verus Edge Lab Scope Operation & Data Management

245 – Snap-on/NC3: Verus Edge Navigation & Scanner Operation

246 – SC Property and Casualty Producer License

The South Carolina Department of Insurance is responsible for licensing and regulating the Insurance profession in the State of South Carolina. SC Property and Casualty Producer License is a required license in South Carolina to sell property and casualty insurance. [\[PRODUCER\]](#)

[247 – Deleted] – This certification is listed under OSHA 10 General-please see #63.

248 – South Carolina Boater Education Certificate

South Carolina Boaters Education requirements for certification are: anyone under the age of 16 years old may operate a vessel or personal watercraft (PWC) powered by a motor less than 15 horsepower without restrictions. Anyone may operate a vessel or personal watercraft (PWC) powered by a motor of more than 15 horsepower only if accompanied by a person 18 years or older who has successfully completed an approved boater safety course. [\[SCBOATER\]](#)

249 – Digital Multimeter (DMM) Certification 525

This course is designed to be an instructor led “hands-on” presentation using the tools, equipment, and practice materials. Instructors can photocopy the presentation and hand it out in paper form. NC3 recommends students use the Flipbook feature built into the exam site to access the curriculum whenever possible. [\[NC3\]](#)

250 – Sage 50 Peachtree Accounting Certification

Peachtree is a staple software program used in the accounting world for business and educational purposes nationwide. Peachtree allows users to perform many accounting functions for business, such as journal entries, customer account management and the production of financial statements. There are levels of software available, depending on the business’s size and needs. Obtaining a certification in Peachtree is helpful in proving software skills acquisition and career readiness. [\[SAGEU\]](#)

251 – Direct Support Professional Certification (DSP)

A Direct Support Professional works directly with people with disabilities to support each person as needed to live a meaningful life in his/her own home, school, workplace and greater community. This certification area offers state and/or national certification. State certification is best for the student who intends on working in SC and may be obtained through the SC Department of Disabilities and Special Needs. [\[NADSP-REG\]](#) [\[NADSP\]](#) [\[DDSNASC\]](#)

252 – Yamaha Certification

Yamaha offers technicians industry sanctioned certification on the basis of Yamaha’s textbook material. There are 10 modules based on each chapter in the Yamaha textbook. Once students have completed all chapters and modules, they can take the master test to achieve their certificate in electrical, ignition, fuel systems, lubrication, motor design, gear cases, propellers, motor brackets and boat control. [YAMAHA]

253 – S/P2-Heavy-Duty Diesel Safety and Pollution

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 Diesel Technology: Diesel Safety and Diesel Pollution Prevention. [S/P2]

254 – S/P2-Construction Safety and Pollution

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 SP/2 national certification in Building Construction Technology: Construction Safety and Construction Pollution Prevention. [S/P2]

255 – S/P2-Welding Safety and Pollution

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 Welding Technology: Welding Safety and Welding Pollution Prevention. [S/P2]

[256 – Deleted]

257 – PCAP Certified Associate in Python Programming

PCAP – Certified Associate in Python Programming certification is a professional credential that measures your ability to accomplish coding tasks related to the basics of programming in the Python language and the fundamental notions and techniques used in object-oriented programming. [PYTHON]

258 – TVMA (Texas Veterinary Medical Association) Certified Veterinary Assistant

The TVMA Veterinary Assistant Training Program is standardized and documents the basic skills and competencies required for animal care and assistance. The program will educate veterinary assistants in the essential skills and knowledge needed to become effective contributors to the veterinary medical care team. [TVMA]

259 – PV101 (Photovoltaic 101)

Photovoltaic 101 is an interactive online course utilizing 10 different short lessons in which students learn about safety and potential hazards of working around solar photovoltaic systems installed on homes and businesses. The information provided in this course covers basic function and operation of current systems and new ones that are being installed. When students complete this course, they will be able to identify the various types of photovoltaic systems, work safely around photovoltaic systems, and completely disconnect/power off a working PV system if necessary. [PV101]

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260 – Pesticide Applicators License

This training prepares students to take the Core and Category 3 (Turf and Ornamentals) Pesticide exams. A pesticide inspector will come proctor the two exams at their classroom. Those exam scores are good for 5 years, so when they turn 18 all they have to do is apply for the license. This is great for those that want to work in the landscape industry. [\[PESTREG\]](#)

261 – Veterinary Assistance Certification

Certification in veterinary assistance is a formal recognition by an organization such as the American Veterinary Medical Association (AVMA) that you have achieved the education and skill level held by that organization to be the nationally recognized standard of quality. Kaduceus Hands On Career Training, Inc. offers the exceptional training and education you need in order to be successful as a certified Veterinary Assistant. Kaduceus students receive instruction in animal care and necessary clinical skills. [\[KAD\]](#)

262 – FAA Part 107 UAV License

FAA Part 107 UAV License demonstrates that a drone operator understands the regulations, operating requirements and procedures for safely flying drones. All drone programs are required to be taught by a certified SC teacher with a current commercial drone pilot license. To become a pilot, you must be at least 16 years old; be able to read, speak, write, and understand English; be in physical and mental condition to safely fly a drone; and pass the initial aeronautical knowledge exam: “Unmanned Aircraft General-Small (UAG)”. [\[FAA\]](#)

263 – Sudden Cardiac Arrest Certificate

The Sudden Cardiac Arrest course will help you learn and recognize the warning signs and symptoms of Sudden Cardiac Arrest. The certificate signifies the completion of the course where students learn what to do in the critical moments after an individual collapses in order to save their life such as calling 911, starting chest compression and sending for an Automated External Defibrillator (AED). [\[NFHSLEARNSCA\]](#)

264 – Sports Nutrition Certificate

This course leads to a certificate that presents guidelines for the diet needed to be ready for athletic practice and competition, and how to refuel afterwards. It gives tips on how you can influence your students’ eating habits outside of the school environment. Specific examples are provided for what types of foods students should and should not eat to replenish their bodies between activities. [\[NFHSLEARNNSN\]](#)

265 – Certified Personal Trainer Certification

A personal trainer certification from the American College of Sports Medicine (ACSM) means that you will have the practical and scientific knowledge to work in a variety of fitness facilities, including health clubs, gyms, university, corporate, and community or public fitness centers, and positions ranging from freelance personal training to full-time and beyond. To qualify for the certification, you must be 18 years of age or older, high school diploma or the equivalent, and adult CPR/AED Certification. [\[ACSM\]](#)

266 – Physical Therapy Aide Certification

A physical therapy aide certification provides opportunities for physical therapy assistants to perform delegated, selected or routine tasks under the close supervision of a physical therapist. To qualify for the examination, students must graduate from an approved program, must be monitored while taking the exam by an approved American Medical Certification Association (AMCA) test site, and must pass with a minimum of 70% or higher. [[AMCAEXAMS](#)] [[PTAC](#)]

267 – SC 15-Hour Health and Safety Pre-Service Certificate

SC's free 15-hour Health and Safety Pre-Service Certificate is required for ABC Quality/SC Voucher administrators and teachers. Completion of this course is required **once** and will be accepted one time to count towards Child Care Licensing requirements within the year of completion. [[HSPC](#)]

268 – Praxis Core

The *Praxis*[®] tests help South Carolina educators demonstrate their knowledge of content, pedagogy and instructional skills for the classroom. Praxis Core Academic Skills for Educators are comprehensive assessments that measure the skills and content knowledge of candidates entering teacher preparation programs. [[ETSPC](#)]

269 – Certified Culinarian[®] (CC[®])

An entry-level culinarian certification qualifies the student to perform within a commercial foodservice operation responsible for preparing and cooking sauces, cold food, fish, soups and stocks, meats, vegetables, eggs, and other food items. [[ACFCC](#)]

270 – Certified Pastry Culinarian[®] (CPC[®])

An entry-level culinarian certification qualifies the student to perform within a pastry foodservice operation responsible for the preparation and production of pies, cookies, cakes, breads, rolls, desserts, or other baked goods. [[ACFCPC](#)]

271 – Certified Hospitality & Tourism Management Professional (CHTMP)

Candidates for this certification must pass the Level 1 and Level 2 CHTMP exams with scores of 70% or higher; and also complete 100 hours of paid or unpaid work experience in one or more of the following qualifying areas: Accommodations: Hotels, resorts, motels, hostels, vacation rentals, vacation ownership, bed & breakfast properties, recreational vehicles and camping; Food & Beverage: Restaurants, full-service, fine dining, quick service, banquet facilities, lounges; Transportation: Airlines, cruise lines, rail, car rentals, tour/coach operators, bus lines, taxis; Attractions: Theme parks, zoos, national/state/local parks, natural wonders, heritage sites. [[AHLEIHTMP](#)]

272 – CompTIA Project+

The CompTIA Project+ certification validates the ability to initiate, manage and complete a project or business initiative on time and within budget. [[COMP](#)]

273 – CASP: CompTIA Advanced Security Practitioner

The CompTIA Project+ certification is an advanced certification that validates critical thinking and judgement across a spectrum of security disciplines in complex environments. [[COMPSP](#)]

274 – CompTIA CySA+: Cybersecurity Analyst

The CompTIA Cybersecurity Analyst (CySA+) certification applies behavioral analytics to the IT security field to improve the overall state of IT security. [[COMPCYSA](#)]

275 – CompTIA Cloud Essentials

The CompTIA Cloud Essentials certification focuses on the real-world issues and practical solutions of cloud computing in business and IT. It is the preferred cloud certification for business professionals and non-IT staff. While it is not a technical-heavy certification, its coverage of cloud computing principles is anything but superficial. [[COMPCLOUD](#)]

276 – CompTIA Pen Test+

The CompTIA Pen Test+ certification is for intermediate level cybersecurity professionals who are tasked with penetration testing to manage vulnerabilities on a network. [[COMPPT](#)]

277 – Information Technology Security (ITS)

The Information Technology Security certification covers all areas of cybersecurity for information technology. This certification identifies a specialist's knowledge of computer hardware and software security measures as well as wireless communications security, device security, cryptography, social engineering, virus detection/mitigation, troubleshooting, disaster prevention/recovery and site risk analysis. [[ETAI](#)]

278 – Associate of Information Security Certification (ISC) ²

The Associate of (ISC) ² is an alternative to normal certification processes. It is not an entry-level cybersecurity certification in the traditional sense. The Associate of (ISC) ² is a designation Work experience and is not required to take any of the certification exams. It proves your knowledge in cybersecurity right away. After successful completion of the exam and earned work experience, the certification is awarded. [[ISC2](#)]

279 – CISSP: Certified Information Systems Security Professional

The CISSP is ideal for experienced security practitioners, managers and executives interested in proving their knowledge across a wide array of security practices and principles. [[ISC2CISSP](#)]

280 – CCSSLP: Certified Secure Software Lifecycle Professional

The (ISC) ² CCSSLP is ideal for software developers responsible for applying secure coding practices to each phase of the software development lifecycle. [[ISC2CSSLP](#)]

281 – CHFI: Computer Hacking Forensic Investigator

Computer forensics is simply the application of computer investigation and analysis techniques in the interests of determining potential legal evidence. The purpose of the CHFI credential is to validate the candidate's skills to identify an intruder's footprints and to properly gather the necessary evidence to prosecute in the court of law. [[ECCOUNCIL](#)]

282 – CEH: Certified Ethical Hacker

A Certified Ethical Hacker is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system(s). The CEH credential certifies individuals in the specific network security discipline of Ethical Hacking from a vendor-neutral perspective. [[ECCOUNCILEH](#)]

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283 – GCIH: GIAC Certified Incident Handler

The GCIH certification requires the candidate to understand what a Security Incident is and to deal with an incident after it has occurred. [\[GIAC\]](#)

284 – GISP: GIAC Information Security Professional

The GIAC Information Security Professional (GISP) certification validates a practitioner's knowledge of the 8 domains of cybersecurity knowledge as determined by (ISC)² that form a critical part of CISSP® exam. GISP certification holders will be able to demonstrate knowledge of asset security, communications and network security, identity and access management, security and risk management, security assessment and testing, security engineering, security operation, and software development security. [\[GISPGIAC\]](#)

285 – GSEC: GIAC Security Essentials

This exam targets Security Professionals that want to demonstrate they are qualified for IT systems hands-on roles with respect to security tasks. Candidates are required to demonstrate an understanding of information security beyond simple terminology and concepts. [\[GIAC-GSEC\]](#)

286 – TestOut Server Pro 2016 Certification

The TestOut Server Pro 2016 certification measures a candidate's ability to manage the Windows Server 2016 operating systems as an IT professional. [\[TESTOUTSP\]](#)

287 – TestOut Linux Pro Certification

The TestOut Linux Pro certification tests one's ability to use Linux operating system as an IT professional. [\[TESTOUTLINUXP\]](#)

288 – TestOut Client Pro Certification

The TestOut Linux Pro certification tests one's ability to use Linux operating system as an IT professional. [\[TESTOUTCP\]](#)

289 – TestOut Switching Pro Certification

The TestOut Switching certification measures a candidate's ability to work with CISCO switching devices as an IT professional. [\[TESTOUTSP\]](#)

290 – TestOut Routing Pro Certification

The TestOut Routing certification evaluates a candidate's ability to work with CISCO routing devices as an IT professional. [\[TESTOUTRP\]](#)

291 – CCSK: Certificate of Cloud Security Knowledge

The CCSK is a web-based examination of an individual's competency in key cloud security issues. Launched in 2010, the CCSK is a widely recognized standard of expertise and is the industry's primary benchmark for measuring cloud security skillsets. [\[CCSK\]](#)

292 – CWNA: Certified Wireless Network Administrator

The CWNA® - Certified Wireless Network Administrator is an administrator level career certification for networkers who are in the field and need to thoroughly understand RF behavior, site surveying, installation, and basic enterprise Wi-Fi security. CWNA is where you learn how RF and IP come together as a Wi-Fi network. The CWNA certification is valid for 3 years. [\[CWNA\]](#)

293 – CWTS: Certified Wireless Technology Specialist

The CWTS® - Certified Wireless Technology Specialist is an entry-level certification for sales professionals, project managers, and networkers who are ADD/NEW to enterprise Wi-Fi. Learn what Wi-Fi is before you learn how it works. CWTS is a lifetime certification. [\[CWTSCWS\]](#)

294 – OCPJP: Oracle Certified Professional, Java SE8/SE 7 Programmer

This exam covers all fundamental aspects of Java programming (focus on breadth of knowledge) from Oracle's perspective. [\[OCPJP\]](#)

295 – Linux Essentials

Ability to use basic console line editor and demonstrate an understanding of processes, programs and components of the Linux Operating System. [\[LINUX\]](#)

296 – LPIC-1 Certified Linux Administrator

Ability to perform maintenance tasks with the command line, install and configure a computer running Linux and be able to configure basic networking. [\[LPIC1\]](#)

297 – CompTIA Linux+/LPIC-1

The CompTIA Linux+ certification validates the competencies required of an early career system administrator supporting Linux systems. [\[COMPTIALPIC\]](#)

298 – CIW Web Foundations Associate

The Certified CIW Web Foundations Associates have validated their understanding of important technologies that affect virtually every business. This certification is ideal for all professionals who use the Internet on the job. Once certified, these individuals are ready to pursue specialties in Web design, e-commerce, JavaScript, databases and other fields. [\[CIWWFA\]](#)

299 – CIW Internet Business Associate

The Internet Business Associate prepares students to work effectively in today's business environment. This certification validates the tasks involved in various Information Technology (IT) job roles and explore career opportunities in the IT industry. Students are tested on Internet connection methods, Internet protocols, the Domain Name System (DNS), cloud computing and mobile devices. The test covers the basic functions of Web browsers, the components of Web addresses and browser use in the business world. It validates the students' depth of knowledge on how browser plug-ins and add-ons can improve your Web-browsing experience, and how to use browsers to download and manage files. [\[CIWIBA\]](#)

300 – CIW Site Development Associate

The CIW Site Development Associate is an entry-level certification aimed at validating Website development skills in HTML and CSS coding, manual coding, as well as using graphical user interface (GUI) authoring tools. [\[CIW\]](#)

301 – CIW Network Technology Associate

Understanding the fundamentals of networking, Internet protocols and network security is important for all professionals who use the Internet. This certification proves your mastery of the basics of networking and prepares students for further study in the specialty of their choosing. [\[CIWNTA\]](#)

302 – CIW Advanced HTML5 & CSS3 Specialist

This exam validates deep knowledge of HTML5 and CSS3, and thus assumes a certain amount of existing knowledge (such as basic HTML coding). This course is a natural step up from the current CIW Foundations Site Development Associate (SDA) certification. [\[CIWAHTML5\]](#)

303 – CIW User Interface Designer

This exam validates the strategies and tactics necessary to design user interfaces, with particular emphasis on creating user interfaces for mobile devices. Students must apply essential usability concepts, including clarity, ease of use, simplicity, and detectability. They must demonstrate how information is obtained from the client, sales, marketing which is utilized to design and develop compelling visual experience Web sites for multiple platforms, including mobile, tablet, and desktop. [\[CIWUID\]](#)

304 – CIW Social Media Strategist

This exam validates the student's knowledge on how social media is used in a business setting, and how to use social media to boost brand recognition and achieve organizational goals. It validates how to build social media strategies and tactics, build and manage campaigns, and develop social media content. The usage of major social media platforms, when and how to utilize each platform correctly in business to achieve organizational goals and strategies is validated. [\[CIWSMS\]](#)

305 – CIW Data Analyst

Students demonstrate how to use data to analyze all aspects of a company's operation and make appropriate business decisions. The exam covers how to compare, and contrast structured and unstructured data. Students will extrapolate information using data obtained from new and traditional data sources, including Web and social media logs, marketing, sales, technical support, and customer relations. The exam validates the students' knowledge of the ways to capture and represent data, including creating dashboards, executive summaries, reports and charts, using both traditional and Web-based tools. [\[CIWDA\]](#)

306 – CIW Web Design Specialist

This exam validates the skills necessary to specialize in Web site design. It covers more advance Web authoring skills to show the essentials and best practices of Web design, including design theory, tools and technologies. Students with little or no background in Web design should consider starting with the CIW Site Development Foundations exam to learn the basics of Web site authoring and development. [\[CIWWDS\]](#)

307 – CIW E-Commerce Specialist

This exam is for the individual who already understands the foundations of Web technologies and wants to demonstrate proficiency in e-commerce practices and site design. Skills covered include e-commerce site development, technology and security, and business, marketing such as online production promotion, taxation, international shipping, and legal issues. [\[CIWECOM\]](#)

308 – CIW JavaScript Specialist

This exam focuses on the fundamental concepts of the JavaScript language. It validates the skills to design client-side, platform-independent solutions that greatly increase the value of your Web site by providing interactivity and interest. It validates how to use JavaScript to communicate with users, modify the Document Object Model (DOM), control program flow, validate forms, animate images, create cookies, change HTML on the fly, and communicate with databases. [\[CIWJSS\]](#)

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309 – CIW Database Design Specialist

This exam validates the student's knowledge of relational database fundamentals, database design and application, Structured Query Language (SQL), relational algebra and databases, currency control, and database security. [\[CIWDDS\]](#)

310 – CIW Web Security Specialist

This exam validates a student's ability to secure a network from unauthorized activity. The exam covers security principles, such as establishing an effective security policy, and the different types of hacker activities that you are most likely to encounter. Individuals with these security skills can pursue or advance careers in many aspects of online and network security. [\[CIWWSS\]](#)

311 – CIW Web Security Professional

This exam validates the student's ability to secure a network from unauthorized activity. It covers security principles, such as establishing an effective security policy, and the different types of hacker activities that you are most likely to encounter in a real-world scenario. Individuals with these security skills can pursue or advance careers in many aspects of online and network security. [\[CIWWSP\]](#)

312 – Flexography First Operator Certification FTA1

This certification is perfect for entry-level and non-production flexographic industry personnel. Choose to become 'FIRST Press Operator Certified', 'FIRST Prepress Operator Certified', or 'FIRST Implementation Specialist Certified'. Regardless of which designation you choose, Level 1 is the same for all certifications. [\[FIRSTFLEX\]](#)

313 – Precision Exams by YouScience: Commercial Art II

The Design & Visual Communications exam validates entry-level skills in graphic design and illustration. [\[YOUSCIENCEESC\]](#)

314 – Precision Exams by YouScience: Digital Print Design

The Digital Print Design exam validates entry-level skills in design and layout using the Adobe Creative Suite software. [\[YOUSCIENCEESC\]](#)

315 – Precision Exams by YouScience: Desktop Publishing I

The Desktop Publishing exam validates entry-level skills in desktop publishing using current professional software (Adobe InDesign). Word and Publisher are not considered professional software applications by industry. [\[YOUSCIENCEESC\]](#)

316 – Precision Exams by YouScience: Commercial Photography I

The Digital Photography exam validates entry-level skills in commercial photography and Adobe Photoshop software. [\[YOUSCIENCEESC\]](#)

317 – Precision Exams by YouScience: Digital Graphic Arts I

The Graphic Communications Intro exam validates basic knowledge and entry-level skills related to the graphic design and printing industries. [\[YOUSCIENCEESC\]](#)

318 – Precision Exams by YouScience: *Digital Graphics Arts II*

The Graphic Communications Intermediate exam covers skills from graphic communications intro and technical knowledge in the areas of design and layout, related computer software, safety, printing processes, finishing and binding, and professional skills. [[YOUSCIENCESC](#)]

319 – Precision Exams by YouScience: *Digital Graphics Arts III*

The Graphic Communications Advanced exam covers skills from graphic communications intro and graphic communications intermediate exams and skills in digital file preparation, image capture digital file output, press operations, binding and finishing, measurement, and basic math. [[YOUSCIENCESC](#)]

[320– Deleted]

321 – TestOut IT Fundamentals Pro

The TestOut IT Fundamentals Pro certification measures an examinee's understanding of foundational concepts related to computer hardware and software, networking, databases, programming, information systems, and data security. [[TOITFP](#)]

322 – Personal Financial Literacy Certification

The Center for Financial Responsibility Personal Financial Literacy certification, offered by ICEV, verifies individuals possess the ability to successfully navigate vital monetary decisions which affect both their personal and professional lives. This certification validates the knowledge and skills pertaining to credit cards, loans, retirement, investments and mortgages. [[TEXASTEHPFL](#)]

323 – Charlotte Works: Working Smart

Working Smart: Soft Skills for Workplace Success by Charlotte Works is a five-module, 16-lesson curriculum that enhances job-seeker skills such as communication, problem-solving, time management, conflict resolution, and accountability. [[CHARLOTTEWORKS](#)]

324 – Expert Rating: Legal Administrative Assistant Certification

The Expert Rating: Legal Administrative Assistant Certification curriculum includes an Overview of the American Judicial System, Legal Terminology, Interviewing, Legal Analysis, Legal Research Authority, Effective Legal Writing, Contract Law, Tort System, Legal Investigation, and the Appellate Procedure. [[EXPERTRATING](#)]

The Career and Technical Education Consortium of States (CTECS)

CTECS is a consortium of states for which member states pool efforts to develop competency-and industry-based career and technical education resources and assessments that are validated by business, industry, and labor. CTECS works with member states to develop stackable credentials based on state recognized validated standards. All course standards are developed and revised implementing college-career readiness preparation leading toward high-wage, high-skilled, and in-demand careers. The end-of-program credential recognizes program completers for demonstrated content mastery. [[CTECS](#)]

325 – CTECS: Building Construction

326 – CTECS: Carpentry

327 – CTECS: Electricity

328 – CTECS: HVAC Technology

329 – CTECS: Masonry

330 – CTECS: Architectural Design

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- 331 – CTECS: Mechanical Design**
- 332 – CTECS: Administrative Services**
- 333 – CTECS: Business Information Management**
- 334 – CTECS: General Management**
- 335 – CTECS: Human Resource Management**
- 336 – CTECS: Operations Management**
- 337 – CTECS: Accounting**
- 338 – CTECS: Business Finance**
- 339 – CTECS: Baking and Pastry**
- 340 – CTECS: Computer Programming with C++**
- 341 – CTECS: Computer Programming with Visual Basic**
- 342 – CTECS: Information Support and Services**
- 343 – CTECS: Networking Systems**
- 344 – CTECS: Web and Digital Communications**
- 345 – CTECS: Welding Technology**
- 346 – CTECS: Marketing Communications**
- 347 – CTECS: Marketing Management**
- 348 – CTECS: Merchandising**

349 – Precision Exams by YouScience: Leadership Principles I

This certification verifies the student has demonstrated a set of skills to be an effective leader. Concepts include leadership history, goal setting, time management, effective communication, diversity, and decision making. [[YOUSCIENCESC](#)]

350 – Precision Exams by YouScience: Leadership Principles II

This certification verifies the student has demonstrated a set of skills to be an effective leader. Concepts include power, team management, dealing with change, and ethics. Student will also be in charge of organizing and implementing a class project. [[YOUSCIENCESC](#)]

351 – Precision Exams by YouScience: Law Enforcement

The Law Enforcement certification covers the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control, public relations, witness interviewing, evidence collection and management, court procedures and the law in general. Basic crime prevention methods, weapon and equipment operation, equipment maintenance, and other routine law enforcement responsibilities are also included. [[YOUSCIENCESC](#)]

The National Coalition of Certification Centers

The National Coalition of Certification Centers is a value-driven organization and the future model for Career and Technical Education, creating highly-skilled, job-ready professionals through a growing network of educational partners and global industry leaders. These certifications cover the basic requirement to become a Mechatronics entry-level Production Technician or entry-level Maintenance Technician.

352 – Level 1: Fundamentals Electricity [[FESTO-FEL1](#)]

353 – Level 1: Fundamentals Mechanical Systems [[FESTO-MSL1](#)]

354 – Level 1: Fundamentals Fluid Power-Hydraulics [[FESTO-FFPHL1](#)]

355 – Level 1: Fundamentals Industry 4.0 [[FESTO-FIL1](#)]

356 – Precision Measurement Instruments Certification

Students that complete the Snap-on Precision Measurement Instruments Certification have gained a solid understanding of the fundamentals of working with precision measurement instruments. Starrett, Snap-on and NC3 combined their industrial experience to create a certification that includes hands-on training on instruments that are vital to engineering, manufacturing, aerospace, power generation, and natural resources, to name a few. Those who earn this certification will be proficient in the use of a variety of instruments ranging from tapes and rules to calipers and micrometers. [[SNAP-ONPMI](#)]

357 – AutoDesk Auto CAD

The Autodesk AutoCAD Certified User exam is demonstrated competency in computer-aided design (CAD). The exam covers the basic use of the AutoCAD software as well as basic drafting and design techniques. An individual earning this certification has approximately 150 hours of instruction and hands-on experience with the product, has proven competency at an industry entry-level and is ready to enter into the job market. [[AUTODESK](#)]

358 – AutoDesk Inventor

The Autodesk Inventor Certified User exam is demonstrated competency in product and part design. The exam covers the basic use of the Inventor software as well as basic mechanical design techniques. An individual earning this certification has approximately 150 hours of instruction and hands-on experience with the product, has proven competency at an industry entry-level and is ready to enter into the job market. [[AUTODESK](#)]

359 – AutoDesk Maya

The Autodesk Maya Certified User exam is demonstrated competency in 3D modeling and animation. The exam covers the basic use of the Maya software as well as basic computer modeling and animation practices. An individual earning this certification has approximately 150 hours of instruction and hands-on experience with the product, has proven competency at an industry entry-level and is ready to enter into the job market. [[AUTODESK](#)]

360 – HACCP (Hazard Analysis Critical Control Point) 4-Hour Certification

HACCP is an internationally recognized system for reducing the risk of safety hazards in food. A HACCP System requires that potential hazards are identified and controlled at specific points in the process. The certification is approved by the School Nutrition Association (SNA). [[HACCP](#)]

361 – Food Manager Certification

The Food Manager Certification Exam is accredited by the American National Standards Institute-Conference for Food Protection (ANSI-CFP). The exam is designed to test and assess food service employees on competencies relevant to the prevention of foodborne illness. If you take our food safety certification exam and pass with a score of 75% and above, you will get your food safety certification in the mail within 15 days. [[FOODMG](#)]

Precision Exams by YouScience

Precision Exams works with business and industry to develop stackable competency- and industry-based career and technical education certification exams based on the needs and resources of business and industry. All certification standards are developed to recognize demonstrated content mastery. In addition, Precision Exams offers reporting tools that help teachers and schools determine where to focus to improve scores and show growth measurement throughout the length of a course.

[[YOUSCIENCESC](#)]

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- 362 – Precision Exams by YouScience: CAD Architectural Design I
- 363 – Precision Exams by YouScience: CAD Architectural Design II
- 364 – Precision Exams by YouScience: CAD Architectural Design III
- 365 – Precision Exams by YouScience: CAD Mechanical Design I
- 366 – Precision Exams by YouScience: CAD Mechanical Design II
- 367 – Precision Exams by YouScience: CAD Mechanical Design III
- 368 – Precision Exams by YouScience: Engineering Technology
- 369 – Precision Exams by YouScience: Robotics I
- 370 – Precision Exams by YouScience: Robotics II
- 371 – Precision Exams by YouScience: Small Engineer Repair I
- 372 – Precision Exams by YouScience: 3D Animation
- 373 – *Precision Exams by YouScience: Sports and Outdoor Product Design I*
- 374 – *Precision Exams by YouScience: Sports and Outdoor Product Design II*
- 375 – Precision Exams by YouScience: Television Broadcasting I
- 376 – Precision Exams by YouScience: Television Broadcasting II
- 377 – Precision Exams by YouScience: Accounting I
- 378 – Precision Exams by YouScience: Accounting II
- 379 – Precision Exams by YouScience: Business Communications I
- 380 – Precision Exams by YouScience: Business Management
- 381 – Precision Exams by YouScience: Digital Business Applications
- 382 – Precision Exams by YouScience: Exploring Business & Marketing
- 383 – Precision Exams by YouScience: General Financial Literacy
- 384 – Precision Exams by YouScience: Personal Financial Responsibility
- 385 – Precision Exams by YouScience: Child Development
- [386 – Deleted]
- 387 – Precision Exams by YouScience: Banking and Finance
- 388 – Precision Exams by YouScience: Advertising and Promotion
- 389 – Precision Exams by YouScience: Digital Marketing
- 390 – Precision Exams by YouScience: Real Estate
- [391 – Deleted]
- 392 – Precision Exams by YouScience: Sports and Entertainment Marketing
- 393 – Precision Exams by YouScience: Biotechnology
- 394 – Precision Exams by YouScience: Clinical Laboratory Technology
- 395 – Precision Exams by YouScience: Dental Assistant-Dental Science I
- 396 – Precision Exams by YouScience: Dental Assistant-Dental Science II
- 397 – Precision Exams by YouScience: Dental Assistant-Dental Science III
- 398 – Precision Exams by YouScience: Emergency Medical Technician (EMT)
- 399 – Precision Exams by YouScience: Exercise Science and Sports Medicine
- 400 – Precision Exams by YouScience: Health Science Fundamentals
- 401 – Precision Exams by YouScience: Medical Anatomy and Physiology
- 402 – Precision Exams by YouScience: Medical Assistant-Anatomy and Physiology
- 403 – Precision Exams by YouScience: Medical Assistant-Clinical and Laboratory Procedures
- 404 – Precision Exams by YouScience: Medical Assistant-Medical Office Mgmt.
- 405 – Precision Exams by YouScience: Medical Assistant-Medical Terminology
- 406 – Precision Exams by YouScience: Medical Forensics
- 407 – Precision Exams by YouScience: Medical Terminology
- 408 – Precision Exams by YouScience: Nutrition and Wellness
- 409 – Precision Exams by YouScience: Physical Therapy, Introduction

- 410 – *Precision Exams by YouScience: Computer Programming II (C #)*
- 411 – *Precision Exams by YouScience: Computer Programming II (C++)*
- 412 – *Precision Exams by YouScience: Computer Programming II (Java)*
- 413 – *Precision Exams by YouScience: Computer Programming II (Python)*
- 414 – *Precision Exams by YouScience: Desktop Publishing II*
- 415 – *Precision Exams by YouScience: Event Planning & Management*
- 416 – *Precision Exams by YouScience: Lodging & Recreation*
- 417 – *Precision Exams by YouScience: Hospitality and Tourism*

418 – First Aid

OSHA compliant First Aid training and certification can help students become prepared to respond properly in the event of an emergency. Not only will it help students to become prepared to respond to first aid emergencies, but the training helps to build confidence. First aid training helps students learn to respond to adults and children in situations that may involve burns, bleeding, broken bones, allergic reactions, choking and more. [[SCRC](#)]

419 – MSSC: Certified Logistics Technician

The purpose of the Certified Logistics Technician (CLT) ® certification program is to recognize through certification, individuals who demonstrate mastery of the core competencies of material handling at the front-line (entry-level to front-line supervisor) through successful completion of the certification assessments. The goal of the CLT certification program is to raise the level of performance of logistics technicians both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company’s productivity and competitiveness. The CLT program consists of two parts: Foundational-Level Certified Logistics Associate (CLA) ® Certificate and Mid-Level Technical CLT Certification (CLT). [[MSSCCLT](#)]

420 – Ducks Unlimited Ecology Conservation and Management

The Ecology Conservation & Management Certification verifies individuals have obtained exceptional knowledge and skills in the areas of ecological principles and wildlife management, as well as habitat, forest, grasslands, wetlands and waterfowl conservation and management. Responsible land and water use, along with conservation methods, are important for the future of natural resources. [[DUCKSUN](#)]

South Carolina Agricultural Education

The South Carolina Agricultural Education State Office develops and provides competency and industry-based career and technical education resources and assessments that are validated by business, industry, and labor. End-of-program assessments are developed based on program standards and competencies which are developed and revised implementing college-career readiness preparation. The end-of-program credential recognizes program completers for demonstrated content mastery. [[EDSCGOVSCAE](#)]

421 – Agricultural Mechanics and Technology

422 – Environmental and Natural Resources

423 – Horticulture

424 – Plant and Animal Systems

425 – SkillsUSA Career Essentials Certification

The SkillsUSA Career Essentials suite engages students in defining, implementing and measuring their career-readiness skills along every point in their educational journey, whether it be middle-school, high-school, and college/postsecondary including the adult learner. The curriculum generates high levels of student engagement and is built on evidence-based outcomes that support the industry-validated Career-Ready Assessment. Together, curricula and assessments work to culminate in students earning the industry-recognized Career Essentials credentials. No longer do you need to search for a curriculum that will meet the pressing needs of fulfilling national and state standards related to career readiness. [[SKILLSUSACEC](#)]

426 – Certified Fundamentals Pastry Cook® (CFPC®)

The Certified Fundamental Pastry Cook certification requires a high school diploma/GED, 75 continuing education hours, two 30-hour courses in nutrition and food safety and sanitation in the last 5 years. The certification verifies that students have fundamental knowledge within a commercial baking and pastry operation. No experience is required. [[ACFCFPC](#)]

Soft Skills High Career Readiness Certification Program

Soft Skills High’s virtual high school certificate program teaches and assesses 21st Century Skills in a highly engaging and fully comprehensive learning experience. Students enrolled in Soft Skills High move through a sequence of three learning opportunities (Career and Life Essentials, Career PREP and Soft Skills PRO) preparing them for the journey from the classroom to college, the workplace, and the world. All three components can be utilized as stand-alone resources and/or integrated within existing career and technical state approved courses. [[SOFTSKILLS](#)]

427 – Career and Life Essentials

Aligned with the employability traits framework of the Partnership for 21st Century Skills, our Career & Life Essentials (CLE) course is the first step in preparing students for a successful career and life. Interactive, inspirational, and fun, our course content was created especially for today's high school students. [[SOFTSKILLS](#)]

428 – Career PREP – A Virtual Career Guidance Center

In this fun and informative collection of practical workshops and activities, students put the soft skills studied in their Career & Life Essentials course into practice to create a Career PREP Portfolio that they can carry with them when they enter college or the workplace. The Career PREP Portfolio is a summary of the skills, strengths, and abilities students have mastered in the CLE course. [[SOFTSKILLS](#)]

429 – Soft Skills PRO – Industry Certification

Soft Skills PRO – Industry Certification is designed to address the challenges that come with assessing and certifying students in a work-based learning experience, Soft Skills Pro is an easy, effective and valuable evaluation tool for busy teachers and employers. This can easily align to existing work-based learning criteria as required by Career and Technical Education state guidelines. Upon completion of both the Career & Life Essentials course and Career PREP, students who successfully demonstrate their acquired knowledge in a documented work-based internship will earn a Soft Skills Pro Certificate. [[SOFTSKILLS](#)]

430 – Leadership Essentials

The Leadership Essentials assessment/certification will be at a knowledge and skill level associated with early career employment opportunities and rigorous leadership development programs that prepare individuals for life and career success. These leadership development programs are built upon the approach of helping young people acquire competencies necessary for success and to meet the increasing challenges in today's world. [\[PREPACLE\]](#)

431 – Equine Management & Evaluation

This certification is designed to build a pipeline of skilled equine industry professionals. It validates the knowledge and skills needed to begin equine-related careers in evaluation, breeding, handling, stable management and more. Those who earn this certification are more qualified and prepared to enter a variety of roles within the industry. Additionally, this certification allow employers to connect with more skilled candidates in a highly-specialized industry. This certification can be earned by learners in all stages of their education and career and verifies individuals are prepared to pursue a career in the fields of equine evaluation, production, and management. [\[NHJTCAEME\]](#)

432 – Hunter Education

The South Carolina Department of Natural Resources Hunter Education Program is dedicated to the safe enjoyment of our outdoors. Through this program, students learn about responsibility and ethics in the field, as well as firearms knowledge and safety, first aid, tree stand safety, hunting skills, wildlife conservation and management and survival skills. This course is offered online and in-person. [\[SCDNR\]](#)

433 – Kid's Nutrition Specialist Certification

Nutrition education for kids is vital to reduce the epidemic of childhood obesity and childhood diabetes. This NESTA specialization will teach you dietary education, kid's nutritional facts and games, and much more to combine with your existing fitness and nutrition business model. Students must pass the certification exam with a score of 70% or higher. [\[NESTA\]](#)

434 – PMI Project Management Ready

The PMI Project Management Ready certification presents the tools needed to apply the project management skillset to all workplace and day-to-day activities. Students prepared for this certification know project management fundamentals and core concepts, traditional plan-based methodologies, Agile frameworks/methodologies, as well as Business Analyst frameworks. [\[PMIPMR\]](#)

MOS Certifications

MOS certifications help validate proficiency in using Microsoft Office 2019 and Office 365 and meet 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 Associate or Expert certification. [\[MICROSOFT\]](#)

435 – Microsoft Office Access Expert 2019

436 – Microsoft Office Excel Associate 2019

437 – Microsoft Office PowerPoint Associate 2019

438 – Microsoft Office Word Associate 2019

439 – Microsoft Office Word Expert 2019

440 – Microsoft 365 Certified TEAMS Administrator Associate

Microsoft Teams Administrators configure, deploy, and manage Office 365 workloads for Microsoft Teams that focus on efficient and effective collaboration and communication in an enterprise environment. [[MICROSOFT](#)]

[441 – Deleted]

Isograd TOSA®

Isograd TOSA® Digital certifications are designed for employees, students, and job seekers to validate their skills by displaying a numerical score between 1 and 1000 on resume or online profiles. Scores of 551 and above represent the Productive, Advanced and Expert levels and will be regarded as passing for high school students. They are suitable for all types of users from occasional users to experts. All assessments are remote-proctored. [[TOSA](#)]

442 – TOSA® DigiComp

443 – TOSA® InDesign

444 – TOSA® Illustrator

445 – TOSA® Photoshop

446 – STOP THE BLEED

Through the STOP THE BLEED® course, students will gain the ability to recognize life-threatening bleeding and intervene effectively. The certification will demonstrate the students have developed the three quick bleeding control techniques to learn how make a life-or-death difference when a bleeding emergency happens. [[STB](#)] [[HS-STB](#)]

447 – The American Meat Science Association (AMSA) Culinary Meat Selection & Cookery Certification

This certification validates fluency in culinary techniques, food safety, meat selection and retail cut identification. Those who earn the certification are more qualified and prepared to enter a variety of careers, specifically those that involve the selection and preparation of meat. Additionally, the certification allows employers to identify and connect with more skilled candidates, fillings gaps in the labor market and jump-starting individuals' careers. [[AMSACMSC](#)]

448 – Barbicide Certification

Barbicide Certification demonstrates students have received training and understanding of proper sanitation and disinfection practices and procedures consistent with the current highest industry standards. [[BARBICIDE](#)]

449 – Lucas-Cide Certification

Lucas-Cide Certification demonstrates dedication to providing safe services in the salon, spa or barbershop by getting your space Lucas-Cide Safe Space Certified! This free course leads to Lucas-Cide Certification and an official certificate is awarded. [[LUCAS](#)]

450 – Snap-on/NC3: Battery, Starting, and Charging Certification

Snap-on and NC3 combined their industrial experience and expertise to create a certification that includes hands-on training using tools fundamental to transportation careers. The successful completion of the Snap-on Battery, Starting, and Charging Certification enables graduates to demonstrate a solid understanding of battery, starting, and charging diagnostics, jump-starting tools and service equipment, and testing equipment while applying safety measures. [\[NC3\]](#)

451 – Snap-on/NC3: Diesel Scanner Diagnostics Certification

Students who earn the Snap-on Diesel Scanner Diagnostics Certification have completed hands-on training with state-of-the-art Snap-on equipment developed for diesel repair and maintenance. The certification demonstrates that graduates have attained a solid understanding of scanner controls and operation, providing them with tools for life required to service computer-controlled diesel vehicles. [\[NC3\]](#)

452 – Snap-on/NC3: Rotor Matching Master Technician Certification

Students who earn the Snap-on Rotor Matching Master Technician Certification have acquired skills in the diagnosis and repair of brake related problems encountered on today's precisely engineered vehicles. This certification covers the capabilities required to accurately identify performance and safety related brake system malfunctions, as well as how to correct them effectively and provides a widely recognized endorsement of technical expertise and demonstrated achievement. [\[NC3\]](#)

453 – Snap-on/NC3: Tire Pressure Monitoring Systems Certification

The Tire Pressure Monitoring Systems Certification includes training in problem-solving with and programming of tire pressure monitoring sensors. Training covers the description, diagnostics, servicing, and programming of the Snap-on TPMS4 system. The unique design of the class allows students to pressurize and activate sensors in a classroom environment without a wheel and tire assembly. The Snap-on Tire Pressure Monitoring Systems Certification provides an industry-recognized endorsement of technical expertise and demonstrated ability in tire service. [\[NC3\]](#)

454 – Snap-on/NC3: Wheel Service and Alignment Certification

The Snap-on Wheel Service and Alignment Certification is awarded to students who achieve proficiency in automotive wheel balancing and alignment, and tire changing equipment. Technicians with this certification are widely recognized for their advanced training and hands-on experience. The course provides lab exercises for training on professional-grade equipment including balancers, changers and alignment systems. Students who successfully complete the course obtain the training and professionalism required to be safe, accurate and proficient on the job. [\[NC3\]](#)

455 – Precision Exams by YouScience: Criminal Justice 1

The Criminal Justice 1 certification includes the history of law enforcement and the legal system, report writing and recordkeeping, criminal investigation techniques, and routine police procedures. Students demonstrate knowledge on how to use communications and dispatch equipment, perform proper search and seizure techniques, conduct basic criminal investigations, and execute correct pursuit and arrest procedures. Students demonstrate preparation to enter the fields of law enforcement and the criminal justice system. [\[YOUSCIENCESC\]](#)

456 – Precision Exams by YouScience: Criminal Justice 2

The Criminal Justice 2 certification demonstrates an in depth understanding of the American judicial system highlighting criminal laws and procedures and major landmark case law. Students demonstrate

knowledge in basic investigative techniques for crimes against people and property. Students demonstrate an increased understanding of the criminal justice field with an emphasis on law enforcement. [[YOUSCIENCESC](#)]

457 – Initial Security Officer Certificate

The Initial Security Officer Certificate will provide the student Nature and Role of Private Security Officers, Observation and Incident Reporting, Principles of Communication, Access Control, Safeguarding Information, Emergency Response Procedures, Life Safety Awareness and Workplace Violence. [[IFPO](#)]

458 – Professional Security Officer Certificate

The Professional Security Officer Certificate is earned through a 45-hour PSOP course that covers a broad range of subjects including the roles and responsibilities of the security officer, asset protection, emergency evacuation procedures, professional ethics, and report writing. The information presented ensures protection officers have the skills to carry out the important mission of protecting people, property, and information with professional expertise. [[IFPO](#)]

459 – Swift (CERTIPORT): App Development with Swift Certification Level 1

App Development with Swift certifications recognize students for their knowledge of Swift, Xcode, and app development tools. Students are expected to have completed at least 150 hours of instructional time before taking the certification exam. Students who pass the certification exam will earn a digital badge they can share in a resume, portfolio, email, or in online professional networks. [[SWIFT](#)]

460 – Adobe Certified Professional (ACP) Using Adobe Animate

With the evolution from Flash Professional to Animate CC, the Adobe Certified Associate certification is also changing. The Adobe Animate CC exam incorporates the updates and enhancements found in the new software. The Animate CC exam validates an individual's skills using the premier animation tool. The ACA Animate CC exam proves a student has the skills necessary to create dynamic and engaging content required for a career in animation and design. [[ACPANIMATE](#)]

461 – Adobe Certified Professional (ACP) Visual Effects & Motion Graphics Using Adobe After Effects

Adobe After Effects is the industry-standard motion graphics and visual effects software. Create cinematic movie titles, intros, and transitions. Start a fire or make it rain. Animate a logo or character. With After Effects CC, you can take any idea and make it move. [[ACPAFTEREFFECTS](#)]

462 – Adobe Certified Professional Video Design Specialist (ACP-VDP)

Adobe Certified Professional in Video Design = Premiere Pro (required) + Photoshop or After Effects

The Adobe Certified Professional in Video Design validates the individual's expertise in creating and editing videos using Adobe Creative Cloud. It requires professional-level skills and knowledge to effectively create graphics, animations, and special effects. To earn a new specialty credential, candidates must achieve a passing score on one specific exam, as well as a passing score on one of the other two exams as listed below. Any version of the Live-in-the-App exams will qualify. [[ACPVIDEODESIGNSPECIALIST](#)]

463 – Adobe Certified Professional Visual Design Specialist (ACP-VDS)

Adobe Certified Professional in Visual Design = Photoshop (required) + Illustrator or InDesign

The Adobe Certified Professional in Visual Design validates the individual’s expertise in creating and designing holistic digital aesthetics using Adobe Creative Cloud. This certification requires professional-level skills and knowledge to effectively create and develop digital creative assets.

[\[ACPVISUALDESIGNSPECIALIST\]](#)

464 – Adobe Certified Professional Web Design Specialist (ACP-WD)

Adobe Certified Professional in Web Design = Dreamweaver (required) + Animate or Photoshop

The Adobe Certified Professional in Web Design validates the individual’s expertise in designing and building web pages using Adobe Creative Cloud. It requires professional-level skills and knowledge to effectively design and develop websites, layouts, and user interface.

[\[ACPWEBDESIGNSPECIALIST\]](#)

465 – Home Builders Association of Alabama (HBAA) Residential Construction Skills Certification

The Residential Construction Skills certification assesses the knowledge and skills necessary to be a productive worker on a residential construction job site. This certification is based on the following standards by the HBAA: Building Components, Building Trades and Safety and Health.

[\[HBAARCSICEV\]](#)

466 – First Aid for Severe Trauma (FAST)

First Aid for Severe Trauma is a Department of Homeland Security funded course that teaches high school students the skills to respond to emergencies in the first 10 min or so after they occur. Because of the DHS funding, this is a FREE course for students under the age of 19, and it happens to be the first Stop the Bleed course developed specifically for high school age students. [\[DHS\]](#)

467 – Health Insurance Portability and Accountability Act - HIPAA Awareness Training for Healthcare Providers

The Privacy Rule standards address the use and disclosure of individuals’ health information—called “protected health information” by organizations subject to the Privacy Rule — called “covered entities,” as well as standards for individuals' privacy rights to understand and control how their health information is used. Schools may choose the vendor they wish to use for this certification with the understanding that the credential earned does not replace the clinical facility’s HIPAA training course for shadowing, clinical rotation, or work, if required by the facility. [\[HIPAACDC\]](#) [\[HIPA\]](#)

468 – Hospitality and Tourism Specialist (HTS) Credential

The Hospitality and Tourism Specialist credential is available to hospitality professionals who have at least 100 hours working in any role in a segment of hospitality. Students must achieve a score of 70% or better to pass the exam. Individuals who have passed the exam will be able to complete an application for the HTS credential. Hours must have been earned within 5 years of taking the exam. [\[AHLEIHTS\]](#)

469 – School Mental Health Certification

LEAD’s School Mental Health Certification introduces students to the risk factors, warning signs, and prevalence of mental illness in middle, high school, and college students. [\[LEAD\]](#)

470 – Student Mental Health and Suicide Prevention

Student Mental Health and Suicide Prevention focuses on wellness, including both physical and psychological, this course highlights causes, strategies and provides helpful resources. [\[NFHSSMHSP\]](#)

471 – Teen Mental Health First Aid (tMHFA)

Teen Mental Health First Aid teaches high school students how to identify, understand and respond to signs of mental illnesses and substance use disorders among their friends and peers. The training gives students the skills to have supportive conversations with their friends and get a responsible and trusted adult to take over as necessary. [\[TMHFA\]](#)

472 – App Development with Swift Associate

High school or higher education students who successfully complete the App Development with Swift Associate exam demonstrate knowledge of the impact of computing and apps on society, economies, and cultures while exploring iOS app development. [\[CRTPADSA\]](#)

473 – App Development with Swift Certified User

Higher education students who successfully complete the App Development with Swift Certified User exam demonstrate fundamental iOS app development skills with Swift. They have knowledge of core concepts and practices that professional Swift programmers use daily. [\[CRTPADSCU\]](#)

474 – CEPP- Certified Expert in Python Programming

The candidate who completes the OpenEDG Python Institute General Programming certification program, i.e., passes the PCAP-31-xx, PCPP-32-1-xx, and PCPP-32-2-xx exams, becomes recognized as an OpenEDG Python Institute Certified Expert in Python Programming (CEPP). [\[CEPP\]](#)

475 – CLA-C Programming Language Certified Associate Certification (CLA – C Certified Associate Programmer Certification)

The C Programming Language Certified Associate (CLA) is a professional certificate that measures your ability to accomplish coding tasks related to the basics of programming in the C programming language, as well as fundamental programming techniques, customs and vocabulary, including the most common library functions and the usage of the preprocessor. [\[CLACPLCAC\]](#)

476 – CLE-C Certified Entry-Level Programmer Certification

The CLE – C Certified Entry-Level Programmer certification shows that the individual is familiar with universal computer programming concepts like compilation, variables, data types, typecasting, operators, conditional execution, loops, arrays, pointers, memory management, functions, and the runtime environment. [\[CLECELP\]](#)

477 – CLP-C Certified Professional Programmer Certification

The C Certified Professional Programmer (CLP) is a professional certificate that measures the ability to accomplish coding and design tasks related to advanced topics of the C programming language, as well as advanced programming techniques, including the library functions and the usage of the preprocessor. [\[CLPCCPPC\]](#)

478 – CPA-C++ Certified Associate Programmer Certification

The C++ Certified Associate Programmer (CPA) is a professional certificate that measures your ability to accomplish coding tasks related to the basics of programming in the C++ language and the fundamental notions and techniques used in object-oriented programming. [[CPACCAPC](#)]

479 – CPE-C++ Certified Entry-Level Programmer Certification

The CPE – C++ Certified Entry-Level Programmer certification shows that the individual is familiar with universal computer programming concepts like compilation, variables, data types, typecasting, operators, conditional execution, loops, arrays, pointers, structures, and the runtime environment. [[CPEPC](#)]

480 – CPP-C++ Certified Professional Programmer Certification

The C++ Certified Professional Programmer (CPP) is a professional certificate that measures the ability to accomplish coding tasks related to the more advanced C++ topics such as templates and the Standard Template Library. [[CPPCPPC](#)]

481 – Cybersecurity Level 1 Certified

The CodeHS Cybersecurity Level 1 Certification Exam proves students' foundational understanding of Cybersecurity topics and concepts. [[CHSCYL1C](#)]

482 – Cybersecurity Level 2 Certified

The CodeHS Cybersecurity Level 2 Certification Exam proves students' understanding of advanced cybersecurity topics and concepts. [[CHSCYBL2C](#)]

483 – Dell Client Foundation and Enterprise Self-Dispatch Certification

The Dell Student TechCrew promotes future career skills and learning via hands-on experience as students help their peers and school staff with technology issues. [[TDMDELL](#)]

484 – IT Automation with Python Certificate

The IT Automation with Python certificate is an advanced certificate that allows students to demonstrate knowledge in Python programming, IT automation, troubleshooting and debugging, testing in Python, and developer environment set up. [[ITAPC](#)]

485 – IT Support Certificate

The IT Support certificate provides the skills needed for an introductory-level job in IT support, to include troubleshooting and customer care, networking, operating systems, system administration, and security. [[ITSC](#)]

486 – Java Level 1 Certified

The CodeHS Java Level 1 Certification Exam proves students' foundational understanding of Java topics and concepts. [[CHSJAL1C](#)]

487 – JavaScript Level 1 Certified

The CodeHS JavaScript 1 Certification Exam proves students' foundational understanding of JavaScript topics and concepts. [[CHSJASCL1C](#)]

488 – PCEP – Certified Entry-Level Python Programmer

The PCEP – Certified Entry-Level Python Programmer certification shows that the individual is familiar with universal computer programming concepts like data types, containers, functions, conditions, loops, as well as Python programming language syntax, semantics, and the runtime environment. [[PCEPCELPPC](#)]

489 – PCPP1 – Certified Professional in Python Programming 1

The PCPP1 – Certified Professional in Python Programming 1 certification shows that the individual is proficient in the more advanced use of classes and features of object-oriented programming. The scope of certification also includes graphical user interface programming, networking and using RESTful APIs, as well as working with selected library modules allowing to interact with SQLite databases (the sqlite3 module), create and process XML files (the xml module), read, write and process csv files (the csv module), create and process log messages from Python programs (the logging module), and manage configuration files (the configparser module). Finally, the certification covers the best practices, standardization, and coding conventions used in the Python Language. [[PCPP1CPPPC](#)]

490 – PCPP2 - Certified Professional in Python Programming 2

The PCPP2 – Certified Professional in Python Programming 2 certification shows that the individual is familiar with and proficient in automating processes with Python as well as creating Python and Python-related tools, frameworks and systems. The scope of certification includes: Creating and Distributing Packages, Testing Principles and Techniques, The Fundamentals of Design Patterns and Interprocess Communication (IPC), The Basics of Python Network Programming, Python-MySQL Database Access. [[PCPP2CPPPC](#)]

491 – Precisions Exams by YouScience: Computer Programming I

The Computer Programming I certificate allows students to demonstrate knowledge in computer programming fundamentals. Topics include coding concepts and problem-solving skills through a programming language such as C++, C#, Java, Python, or JavaScript. [[YOUSCIENCE](#)]

492 – Python Level 1 Certified

The CodeHS Python Level 1 Certification Exam proves students' foundational understanding of Python topics and concepts. [[CHSPYL1C](#)]

493 – TestOut CyberDefense Pro Certification

The TestOut CyberDefense Pro certification exam validates that students are able to defend against ever increasing attacks against traditional solutions like firewalls and antivirus software. The exam measures the ability to complete tasks related to the following topics: Monitoring and Log Analysis, Threat Analysis and Detection, Risk Analysis and Mitigation, Incident Response, and Audit and Compliance. [[TESTOUTCDP](#)]

494 – Web Design Level 1 Certified

The CodeHS Web Design Level 1 Certification Exam proves students’ foundational understanding of HTML and CSS topics. [[CHSWDL1C](#)]

495 – Web Development Level 1 Certified

The CodeHS Web Development Level 1 Certification Exam proves students’ foundational understanding of Web Development topics and concepts. [[CHSWDEV1C](#)]

496 – Emergency Medical Responder

This Certification is issued by the SC Fire Academy after a student has successfully completed the course materials. Since an increase in medical emergencies are being requested through Fire Departments this certification was designed to augment the limited number of EMTs and Paramedics available. [[LLRSF](#)]

497 – Certified Onshape Associate

The Certified Onshape Associate exam certifies that a user is proficient in OnShape modeling workflows. [[CEROSA](#)]

498 – Society of Manufacturing Engineers (SME) Certified Manufacturing Associate (CMfgA)

The Certified Manufacturing Associate (CMfgA) certification covers fundamental topics such as shop math, assembly, maintenance, machining, inspection, and more. This industry-driven certification demonstrates that the individual has basic knowledge of manufacturing and may be an ideal candidate for entry-level manufacturing employment. After earning the CMfgA certification, SME encourages individuals to explore a variety of available career pathways in manufacturing and continue with training or education to earn more advanced technical certifications. [[CMAC](#)]

499 – Stukent Social Media Marketing Certification

The Stukent Social Media Marketing certification is an 80-question, 2-hour certification. Test results demonstrate content mastery in Social Media Marketing as offered through the Stukent courseware bundle. The certification is free with a subscription. [[STUKENT](#)]

500 – Automotive Scanner Diagnostics Certification - Apollo

Students who earn the Snap-on Automotive Scanner Diagnostics Certification have acquired skills they need to unlock the full potential of sophisticated diagnostic platforms and have been provided the insight and experience required to service computer-controlled vehicles. When students complete this certification, they can show employers they have hands-on experience as scanner power-users. [[SNAP-SCDC](#)]

501 – Mechanical And Electronic Torque Certification

The Snap-on Mechanical and Electronic Torque Certification is awarded to students who successfully achieve proficiency in the use of torque tools. In-depth knowledge of torque theory, and experience in wrench selection and torque application form TOOLS FOR LIFE that enable technicians to be productive, efficient, and safe when using torque instruments in a wide variety of industries. [[SNAP-METC](#)]

502 – TIA Tire Compliance

The commercial tire industry mandates that anyone who handles a commercial tire must have the TIA certification. This class is a 200 level TIA compliance certification. Students are taught about tires throughout the school year and learn how to jack up a tractor and trailer, how to manually repair and change a commercial tire, and the final aspect of teaching is the lock out and tag out component.

TIA's basic tire service program covers OSHA Regulations, OSHA Rim Matching and Demount/Mount Charts Single-Piece Demounting, Mounting & Inflation Multi-Piece Demounting, Mounting & Inflation Zipper Rupture Inspection Disc Wheel Service, Maintenance & Inspection Procedures Demountable Rim Service, Maintenance & Inspection Procedures. [TIREIND]

[A0 – Deleted]
[A1 – Deleted]
[A2 – Deleted]
[A3 – Deleted]
[A4 – Deleted]
[A5 – Deleted]
[A6 – Deleted]

A7 – CompTIA IT Fundamentals (ITF+)

The ITF+ certification is for individuals considering a career in IT. It is an ideal steppingstone to more advanced certifications such as CompTIA A+, and with specialized experience, CompTIA Network+ and CompTIA Security+. [\[COMPTIA\]](#)

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 Accredited program, pass a national competency written exam with a cut score of 70 percent, or pass with an overall average of 70 percent of the written and performance exams. [\[ACFEF\]](#)

A9 – Certified Fundamentals Cook® (CFC®)

Certified Fundamentals Cook is a cook with fundamental knowledge and no experience within a commercial foodservice operation. The certification requires graduation from an American Culinary Federation accredited program and successful completion of written and performance examinations administered through NOCTI. [\[ACFCFC\]](#)

A10 – W!SE-Financial Literacy Certification Program (FLCP)

The W!SE 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™. [\[WISE\]](#)

A11 – Emergency Telecommunicator Certification (ETC)

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. [\[NAEDEC\]](#)

A12 – PrintED®–GAERF® Certificate

The PrintED®–GAERF® certificate provide students with credentials that validate their mastery of competencies, and to help meet government education requirements, GAERF and SkillsUSA have established a partnership to offer online PrintED/SkillsUSA - SkillsUSA Career Essentials: Assessments. These examinations test technical skills and knowledge with interactive questions enriched by animations, videos, drawings and photographs. [\[GAERF\]](#)

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. [[AHATBC](#)]

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

START (Skills, Tasks, and Results Training) Certification is designed for workforce programs that use a classroom approach to training and career preparation, this textbook-centered program offers in-depth information, plus the opportunity for students to earn a professional certification. [[AHLEISTART](#)]

A15 – ServSafe® Manager

The ServSafe® Manager certification 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. [[SERVSAFEMAN](#)]

[A16 – Deleted]

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. [[ETSPARA](#)]

A18 – TestOut Pc Pro Certification

The main purpose of the TestOut PC Pro certification is to verify necessary skills to work as an IT support professional. In an IT support job, you'll be asked to install, repair, configure, secure, and manage computer hardware, operating systems, and software in home or corporate environments. [[TESTOUTPCPRO](#)]

A19 – TestOut Network Pro Certification

The TestOut Network Pro certification measures an examinee's ability to perform tasks commonly performed by IT network professionals, including systems administrators, network administrators, network engineers and related careers. The core responsibilities of these job roles typically revolve around the management of hardware and software networking components and include IP configuration, setting up wireless and wired networks, managing networks, basic network security, software updates, hardware upgrades and network protocols. [[TESOUTPRONETWORK](#)]

[A20 – Deleted]

A21 – Network Computer Technician Certification-NCT

The Network Computer Technicians certification focuses on knowledge of computer electronics basic concepts, Internet and networking technology applicable to various areas of the computer industry. NCTs must be able to function, structure, operate, file manage, install, configure/upgrade, manage memory, diagnose and troubleshoot operating systems and hardware (including motherboard and processors and printers). [[ETAINCT](#)]

A22 – Network Systems Technician Certification-NST

The Network Systems Technician certification focuses on knowledge of computer network basic concepts, which are applicable to all the various specialty areas of the computer industry. The NST must be familiar with the following: Computer Network Terminology, Network Administration, Wide Area Networks and Devices Used to Extend Networks, Network Architectures, Computer Network Topologies and Classifications, Network Services, Network Operations, Network Standards, Troubleshooting LAN/WAN Test Equipment, Network Server and Workstation Computer System Hardware, Network Operating Systems, and Disaster and Security Planning for Networks. [\[ETAINST\]](#)

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. [\[ETAICST\]](#)

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. [\[ETAIWNT\]](#)

[A25 – Deleted]

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. Students must be at least 17 years old, complete 1540 hours in an approved secondary program, pass the theory and practical examinations, pass the physical examination, practice as a registered apprentice for 12 months. [\[SCLLRB\]](#)

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. The South Carolina Hair Braiding Registration requires that students be at least sixteen years of age when they complete a one-day, six hour approved hair braiding course, pass an examination administered by the board, and pay the registration fee. [\[SCLLRHB\]](#)

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. A license as an esthetician must be issued by the board to a person who is at least sixteen, possesses at least a tenth grade education or the equivalent, has completed the number of required hours, and has passed the examination prescribed by the board. [\[SCLLRB\]](#)

[A29 – Deleted] (See A11)

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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. [\[EVERFI\]](#)

A31 – Digital Literacy and Wellness

Ignition: Digital Wellness and Safety™ informs students in grades 6-9 on how technology works, while also placing them in virtual environments to tackle issues including privacy, security, technology and data, cyber bullying, digital relationships, and the viral nature of the web. [\[EVERFI\]](#)

Microsoft Office 2013 Certifications

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. [\[MICROSOFT\]](#)

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

A39 – Adobe Certified Professional (ACP) 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. [\[ACPINDESIGN\]](#)

A40 – Adobe Certified Professional (ACP) Graphic Design & Illustration Using Adobe Illustrator

The Graphic Design & Illustration with Adobe Illustrator® exam validates entry-level skills in graphic design and illustration corresponding to Adobe Illustrator software. [\[ACPILLUSTRATOR\]](#)

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 the 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. [\[TESTOUT\]](#)

A42 – South Carolina Master Hair Care

The South Carolina Board of Barber Examiners is responsible for licensing and regulating the profession of barbering in the State of South Carolina. To earn a Master Hair Care Specialist an individual must pass a two part examination, at least 17 years of age, completed the required number of hours, or a cosmetologist who has met the requirements. [\[LLRMHC\]](#)

A43 – ACF Retail Commercial Baking

The Retail Commercial Baking NOCTI-ACF industry-based credential is included in NOCTI's Job Ready assessment battery. Job Ready assessments measure technical skills at the occupational level and include items which gauge factual and theoretical knowledge. Job Ready assessments typically offer both a written and performance component and can be used at the secondary and post-secondary levels. [\[NOCTIRCB\]](#)

A44 – CSWA-SolidWorks Associate Certification

This certification can be used as a benchmark to measure the student knowledge and competency with SolidWorks software in the following areas, Mechanical Design, Additive Manufacturing, Electrical, Mechanical Design Academic Version, Simulation, and Sustainability. [\[DSSW\]](#)

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 (RCA) Series. 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. [\[RCA\]](#)

A45 – RCA–Basic Principles for Construction

A46 – RCA–Electrical Principles

A47 – RCA–House Wiring

A48 – RCA–Electrical Wiring

[A49 – Deleted]

A50 – Heads Up: Concussion in Youth Sports

The Heads Up: Concussion in Youth Sports is a free course that will help coaches, officials, parents and students 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. [\[CDC\]](#) [\[NFHSLEARN\]](#)

A51 – Paid Feeding Assistants (PFA)

South Carolina nursing facilities employ 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. [\[PFA\]](#)

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. [\[COMPTIA\]](#)

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

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; and Security Operations and Administration. [\[ISC2\]](#)

A54 – AutoDesk User Certification for Maya

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. [\[CERTIPORT\]](#) [\[ADMC\]](#)

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. The voucher is valid for 12 months and includes a retake opportunity. The 45 minutes exam can be administered online at the school. Passing students receive a digital certificate from Autodesk. [\[CERTIPORT\]](#)

A56 – Microsoft Certified Solutions Associate (MCSA)

Microsoft Certified Solutions Associate (MCSA) is a certification program intended for people who seek entry-level jobs in an Information Technology (IT) environment. MCSA is a prerequisite for more advanced Microsoft certifications. The MCSA credential supplants the now defunct Microsoft Certified Systems Administrator certification. [\[MCSA\]](#)

A57 – Server Pro 2016: Install and Storage Certification

The TestOut Server Pro 2016: Install and Storage certification exam measures an examinee's ability to perform real-world tasks using the Windows Server 2016 operating system. Examinees have the opportunity to exhibit competence through performing installation, configuration, and management tasks in Windows Server 2016. Technologies used include storage services, network services, file and print, virtualization, high availability, active directory, and group policy. [\[SERPROIS\]](#)

A58 – Server Pro 2016: Identity Certification

The TestOut Server Pro 2016: Identity certification exam measures an examinee’s ability to perform real-world tasks using the Windows Server 2016 operating system. Examinees have the opportunity to exhibit competence through performing network configuration and functionality tasks in Windows Server 2016. Technologies covered include Active Directory Domain Services (AD DS), Group Policy Objects (GPOs), Active Directory Certificate Services (AD CS), Active Directory Federations Services (AD FS), Active Directory Rights Management Services (AD RMS), and Web Application proxy.

[\[SERPROIC\]](#)

A59 – Server Pro 2016: Networking Certification

The TestOut Server Pro 2016: Networking certification exam measures an examinee’s ability to perform real-world tasks using the Windows Server 2016 operating system. Examinees have the opportunity to exhibit competence through performing network configuration and functionality tasks in Windows Server 2016. Technologies covered include DNS, DHCP, IPAM implementation, VPN, Direct Access, DFS, BranchCache, Hyper-V Network Virtualization, and Network Controller.

[\[SERPRONT\]](#)

A60 – Heat Illness Prevention

This course is designed to provide the fundamentals of a strong heat acclimatization plan and guidelines for limiting activities to account for changing environmental conditions and other contributing risk factors. It highlights the importance of an appropriate hydration plan and establishing an Emergency Action Plan in case of a suspected exertional heat stroke. [\[NFHSLEARNHI\]](#)

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 Skills, Tasks, and Results Training (START) 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. [\[AHLEICGA\]](#)

A62 – Certified Restaurant Server

Skills, Tasks, and Results Training (START) 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.

[\[AHLEICRS\]](#)

A63 – Certified Maintenance Employee

The Skills, Tasks, and Results Training (START) 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. [\[AHLEICME\]](#)

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, and basic childcare (bottle feeding, holding, etc.) [\[ARCACCT\]](#)

A65 – 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. [\[CDAC\]](#)

A66 – Certified Patient Care Technician (CPCT)

A Certified Patient Care Technician must possess a high school diploma or GED/high school equivalency plus completed a patient care technician training or education program within the last five years or one year of supervised work experience in a patient care technician field within the last three years. CPCTs have exposure and training in patient care skills that also include phlebotomy and EKG. The exam is 150 multiple choice questions. [\[NHANOW\]](#)

[A67 – Deleted]

A68 – Community Emergency Response Team (CERT)

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 Teen CERT training teaches students readiness and response skills. Newly learned leadership skills empower students to safely respond to an emergency and assist victims without endangering themselves or others. You will be equipped with skills that last a lifetime. [\[FEMA\]](#) [\[CERT\]](#)

[A69 – Deleted]

A70 – National Incident Management System Certification

The National Incident Management System (NIMS) Certification training program is a comprehensive, nationwide, systematic approach to incident management, including the command and coordination of incidents, resource management, and information management. Individuals must complete the prerequisites and the position task book, go through a qualification review and certification/recertification to receive the credential. [\[FEMA\]](#)

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: Building a Resume, Land that Job: Interview Skills for Culinary Students, Ethics and YOU in the Culinary Industry, and Time for a Team Huddle! Running Successful Team Meetings. [\[S/P2CA\]](#)

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: Building a Resume, Land That Job: Interview Skills for Cosmetology Students, Ethics and YOU in the Cosmetology Industry, and Time for a Team Huddle! Running Successful Team Meetings. [\[S/P2C\]](#)

A73 – Certified Medical Administrative Assistant

The Certified Medical Administrative Assistant certification requires that candidates possess a high school diploma or GED/high school equivalency and complete a medical administrative assistant training or education program within the last 5 years or one year of supervised work experience in medical administrative assistant field within the last 3 years. [\[NHANOW\]](#)

A74 – Certified Medical Billing and Coding Specialist (CBCS)

The Certified Medical Billing and Coding Specialists credential requires that a student possess a high school diploma or GED/high school equivalency, and complete a medical billing and coding training or education program within the last 5 years or one year of supervised work experience in the medical billing and coding field within the last 3 years or upon successful completion of the Kaduceus MBC Program, students qualify to sit for the national certification exam through NCCT Inc., certified as a National Certified Insurance Coding Specialist (NCICS). [\[NHANOW\]](#) [\[NCCTINC\]](#)

A75 – Certified Electronic Health Records Specialist (CEHRS)

The Certified Electronic Health Records Specialist (CEHRS) is a nationally recognized credential that requires that a student possess a high school diploma or GED/high school equivalency, and complete an electronic health records specialist training or education program within the last 5 years or one year of supervised work experience in electronic health records specialist field within the last 3 years. Student instruction may take place during the student’s senior year in high school. [\[NHANOW\]](#)

[A76 – Deleted] This certification is listed under OSHA 10 General-see #63.

A77 – Express Employment Professionals Business Office Technology

The Express Employment Professionals Business Office Technology Certification provides students with a solid understanding of current and emerging technologies in today’s workplace. In addition, the certification addresses major topics such as computers, operating systems and networking, telecommunications, business documents, web and business ethics and the Microsoft® Office Suite. The certification consists of 15 modules and a 100-question final certification exam. [\[EXPRESSBOT\]](#)

A78 – Express Employment Professionals Career Preparedness Certification

The Express Employment Professionals Career Preparedness Certification equips students with the skills necessary to thrive in a post-secondary or workplace environment. In addition, the certification addresses major topics such as higher learning, the job seeking process, financial literacy, workplace etiquette and the Microsoft® Office Suite. The certification consists of 23 modules and a 100-question final certification exam. [\[EXPRESSCP\]](#)

A79 – AMSA Food Safety and Science Certification

Endorsed by the American Meat Science Association, this certification provides students with an in-depth knowledge of food safety procedures and standards in the food industry. In addition, concepts such as chemical properties and processes, food handling and storage, food borne illnesses and principles of Hazard Analysis and Critical Control Points (HACCP) are covered. [\[AMSAFSSC\]](#)

A80 – BASF Plant Science Certification

This certification provides students with a solid understanding of plant science, including plant processes, nutrition, genetics and evaluation. In addition, the certification addresses major topics in the plant science industry, including water resources and measurement, crop production, fertilizer and pesticide safety, pests and diseases, and scientific classification. The certification is offered

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through iCEV Multimedia and consists of 22 modules and a 100-question final certification exam. [[BASFPSC](#)]

A81 – Elanco Fundamentals of Animal Science Certification

Endorsed by Elanco, this certification provides students with a solid understanding of animal science, including the history and practices of the livestock industry as well as common terms and terminology and livestock management practices. In addition, the certification addresses major topics in the animal science industry, including genetics, reproduction, nutrition and health management. The certification is offered through iCEV Multimedia and consists of 18 modules and a 100-question final certification exam. [[ELANCOFASC](#)]

A82 – Benz School of Floral Design-Principles of Floral Design Certification

Endorsed by Benz School of Floral Design, this certification requires students to display a thorough understanding of the principles, elements, geometry, and basic techniques used in floral design. In addition, students will become associated with the origins and history of floral design as well as be able to identify flowers and floral materials, design and create arrangements and understand the elements used in critiquing and appraising floral designs. The certification is offered through iCEV Multimedia. [[BENZSFD](#)]

A83 – AMSA Meat Evaluation Certification

Endorsed by the American Meat Science Association, this certification requires students to define the major factors utilized in carcass grading and evaluation. They are asked to display a thorough understanding of meat carcass quality grading, meat handling and food safety as well as the slaughter and fabrication process. [[AMSAMEC](#)]

A84 – NCLCA Principles of Livestock Selection & Evaluation Certification

Endorsed by the National Collegiate Livestock Coaches Association, this certification requires students to identify and analyze livestock breeds and their external anatomy. They will also be expected to show understanding of selection criteria and major factors considered in livestock evaluation. The certification is offered through iCEV Multimedia. [[NCLCAPLSE](#)]

A85 – Southwest Airlines Professional Communications Certification

This certification focuses on teaching students the communication essentials to thrive in any workplace environment. Verbal and non-verbal communication skills are explored and discussed throughout the certification, and how those skills are utilized for a positive, successful experience in the workplace is analyzed. In addition to communication skills, other career-related concepts such as leadership styles, presentation strategies, conflict management, collaboration and English applications are covered in the certification lessons. [[SOUTHWESTAPC](#)]

A86 – Elanco Veterinary Medical Applications Certification

Endorsed by Elanco, this certification provides students with a solid understanding of veterinary science and veterinary medical applications. In addition, the certification features demonstrations and materials from practicing veterinarians working with both small and large animals. The certification is offered by iCEV Multimedia and consists of 22 modules and a 100-question final certification exam. [[ELANCOVMA](#)]

[**A87 – Deleted**]

A88 – Java Foundations Certified Junior Associate

The Oracle Academy Java Foundations Certified Junior Associate credential introduces students to object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs using hands-on, engaging activities. Students will learn the concepts of Java programming, design object-oriented applications with Java and create Java programs using hands-on, engaging activities. After taking the Java Foundations course students will be prepared to take the 1Z0-811: Java Foundations Exam which leads to the Oracle Java Foundation Certified Junior Associate certification. [\[ORACLE\]](#)

A89 – Database Foundations Certified Junior Associate

The Oracle Academy Database Foundations Certified Junior Associate certification teaches students relational database terminology, as well as data modeling concepts, building Entity Relationship Diagrams (ERDs), and mapping ERDs. The course teaches students relational database terminology, as well as data modeling concepts, building Entity Relationship Diagrams (ERDs), and mapping ERDs. After taking the Database Foundations course students will be prepared to take the 1Z0-006: Oracle Database Foundations Exam which leads to the Database Foundations Certified Junior Associate Certification. [\[ORACLE\]](#)

A90 – Oracle Certified Associate, Java SE8 Programmer

The Oracle Academy Java SE8 Programmer certification course of study builds on the skills gained by students in the Java Foundations class and helps to advance Java programming skills. Students will design object-oriented applications with Java and will create Java programs using hands-on, engaging activities. After taking the Java Programming course students will be prepared to take the 1Z0-803: Oracle Java SE8 Programming 1 Exam which leads to the Oracle Certified Associate, Java SE 8 Programmer Certification. [\[ORACLE\]](#)

A91 – Database Design & Programming with SQL

The Oracle Academy Database Design & Programming with SQL certification course engages students to analyze complex business scenarios and create a data model—a conceptual representation of an organization’s information. Participants implement their database design by creating a physical database using SQL. Basic SQL syntax and the rules for constructing valid SQL statements are reviewed. This course culminates with a project that challenges students to design, implement, and demonstrate a database solution for a business or organization. After taking the Database Design & Programming with SQL course students will be prepared to take the 1Z0-071: Oracle Database Exam which leads to the Oracle Database Certified Associate Certification. [\[ORACLE\]](#)

A92 – Programming with PL/SQL

The Oracle Academy course introduces students to PL/SQL, Oracle’s procedural extension language for SQL and the Oracle relational database. Participants explore the differences between SQL and Procedural Language (PL) PL/SQL. They also examine the characteristics of PL/SQL and how it is used to extend and automate SQL to administer the Oracle database. This course culminates with a project that challenges students to program, implement, and demonstrate a database solution for a business or organization. After taking the Programming with PL/SQL course students will be prepared to take the 1Z0-144: Oracle Database Programming with PL/SQL Exam which leads to the Oracle Database PL/SQL Developer Certified Associate Certification. [\[ORACLE\]](#)

A93 – Healthcare Providers Basic Life Support (BLS)

BLS training reinforces healthcare professionals' understanding of the importance of early CPR and defibrillation, basic steps of performing CPR, relieving choking, and using an AED; and the role of each link in the Chain of Survival. Students work with an American Heart Association (AHA) BLS Instructor to complete BLS skills practice and skills testing. Students also complete a written exam. [BLSCPR]

A94 – Microburst EmployABILITY Soft Skills Certification

The Microburst Employability Soft Skills Certification learning approach includes on-line pre-assessments with individualized evaluation reports, highly interactive online lessons, program instructor certification, comprehensive instructor guides with flexible classroom activities to meet a variety of schedules and class sizes, post-assessments, and student certification. With completion of all on-line modules, along with face-to-face classroom instruction and group activities, each completer receives the Employer's Choice Certification. [MICROBURST]

**Office of Career and Technical Education (OCTE) and Student Transition Services (STS)
Contact Information**

| OCTE and STS Responsibilities | Contact Person |
|--|---|
| <ul style="list-style-type: none"> • CTE Director | Vacant |
| <ul style="list-style-type: none"> • Program Team Lead • Arts, A/V Technology & Communications • Education & Training • Hospitality & Tourism • Human Services/Family & Consumer Sciences • Science, Technology, Engineering & Mathematics • Dual Credit for CTE Completer Status | Eleanor R. Abel Glover Gladney, PhD 803-734-3826 eglover@ed.sc.gov |
| <ul style="list-style-type: none"> • Health Science | Angel Clark 803-734-0372 aclark@ed.sc.gov |
| <ul style="list-style-type: none"> • Business Management & Administration • Finance • Marketing • Technical Skills Assessments • CTE Curriculum Standards | Dana Depew 803-734-2828 ddepew@ed.sc.gov |
| <ul style="list-style-type: none"> • Information Technology | Andrew Cook 803-734-7168 acook@ed.sc.gov |
| <ul style="list-style-type: none"> • Agriculture, Food & Natural Resources | Troy Helms 803-320-1064 rthelms@clemson.edu |
| <ul style="list-style-type: none"> • Arts, A/V Technology & Communications • Science, Technology, Engineering & Mathematics • Transportation, Distribution & Logistics | B. T. Martin 803-734-3398 btmartin@ed.sc.gov |
| <ul style="list-style-type: none"> • Architecture & Construction • Government & Public Administration • Law, Public Safety, Corrections & Security • Manufacturing | Steven Watterson 803-734-8267 swatterson@ed.sc.gov |

| OCTE and STS Responsibilities | Contact Person |
|---|---|
| <ul style="list-style-type: none"> Administration Team Lead Federal and State Accountability and Fiscal Compliance | N. Maria Swygert 803-734-8456 nmswyger@ed.sc.gov |
| <ul style="list-style-type: none"> Data Collection, Analysis, and Reporting | Shawn Larrymore 803-734-8450 smlarrym@ed.sc.gov |
| <ul style="list-style-type: none"> Data Collection, Analysis, and Reporting | Matthew Sommerville 803-734-8414 msommerville@ed.sc.gov |
| <ul style="list-style-type: none"> Local Plan and Fiscal Compliance | Melissa Benton 803-734-3825 mbenton@ed.sc.gov |
| <ul style="list-style-type: none"> LEA Monitoring | Kim Fair-Hamilton 803-734-8564 kfhamilton@ed.sc.gov |
| <ul style="list-style-type: none"> LEA Monitoring | Nickolas J. Sumpter 803-734-8438 njsumpter@ed.sc.gov |
| <ul style="list-style-type: none"> Professional Development | Jacqueline Wiseman 803-734-8455 jwiseman@ed.sc.gov |
| <ul style="list-style-type: none"> Business and Industry Liaison | Suzi Raiford 803-734-3825 sraiford@ed.sc.gov |
| <ul style="list-style-type: none"> EEDA “At-Risk” Grant EEDA Monitoring & Accountability | Tiffany Dorsey 803-734-1650 tldorsey@ed.sc.gov |
| <ul style="list-style-type: none"> Computer Science K-12 Specialist | Dominick Sanders 803-734-2862 dsanders@ed.sc.gov |
| <ul style="list-style-type: none"> Team Lead Career Specialist Annual Report Questions Comprehensive School Counseling Program | Anna Duvall 803-734-6267 aduvall@ed.sc.gov |

| OCTE and STS Responsibilities | Contact Person |
|---|--|
| <ul style="list-style-type: none"> • Academic Honors Award • Diplomas/Act 155/Dots • High School Diploma Requirements • Transcripts (including international) | Laura McNair 803-734-8111 lmcnair@ed.sc.gov |
| <ul style="list-style-type: none"> • SCOIS Director • SCOIS Programming • SCOIS Training | Jimmy Deal 803-734-8290 jdeal@ed.sc.gov |
| <ul style="list-style-type: none"> • SCOIS Listserv • SCOIS Marketing • SCOIS Training | Vacant |
| <ul style="list-style-type: none"> • Work-Based Learning | Kama Staton 803-734-8415 kstaton@ed.sc.gov |
| <ul style="list-style-type: none"> • Certifications • Innovative and Renewal Applications • Student Reporting Procedures Guide | Murline Ingram 803-734-4901 mingram@ed.sc.gov |