



OCR Student Reporting Procedures Guide

Office of Career Readiness Student Reporting Procedures Guide

School Year 2025-26

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Preface

This Student Reporting Procedures Guide (SRPG) is the official guide for PowerSchool data entry and reporting for the Office of Career Readiness (OCR). Data from schools is 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 and district data are of the highest quality possible are appreciated.

The SRPG provides Perkins Accountability Indicators, Report Card Accountability Measures-Career Readiness, Career and Technical Education (CTE) Clusters, Programs, and Courses; Middle Schools CTE Courses; certifications, descriptions, and hyperlinks; and the Office of Career Readiness contact Information.

CTE Data Reporting Deadlines

Placement Data Collection

April 16, 2026

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 Course Code Database and Required Credentials for Educator Assignments. 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.](#)

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 CTE data.

To access the CTE page:

1. Log into PowerSchool. Once on the PowerSchool home page, select a student.
2. Click on the Compliance link on the left-hand side of the screen.
3. Click the CTE link under Student Details.

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 Earned (View Only)

The data from this field is used for accountability purposes and indicates the type of diploma 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.

- **Option Set** (dropdown box)
 - Blank = [default]
 - F = State of SC Diploma
 - N = District non-diploma document
 - Z = SC High School Diploma – Adult Ed
 - X = Did not meet requirements to graduate

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 or CTE Completer in more than one state recognized CTE program, select 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., CIP Code 1, CTE Concentrator 1, etc.)

CIP Code

CIP Codes identify specific CTE programs. Every student identified as a CTE Concentrator must be assigned a CIP code approved by the OCTE. The corresponding CTE Concentrator field will automatically populate with a "Y" when a CIP code is selected.

- **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 below) 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 **25 -110on.**)
- Innovative CIP codes (i.e., codes ending with "IN") should only be selected if an innovative program has been approved for the school district/multidistrict career center listed with the program in the CIP code dropdown list.
- **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 Concentrator

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. This field will automatically populate with a "Y" when a CIP code is selected.

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

Concentrator Year

The **Concentrator Year** field indicates the semester and year in which the student became a concentrator. For school year 2025-26, the entry would be FA25 if the student became a concentrator in the fall of 2025 or SP26 if the student became a concentrator in the spring of 2026.

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

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

CTE Program Location

The **CTE Program Location** field 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 career center or other high school offering the 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).

CTE Completer

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

Notes: 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

The **Completion Year** field indicates the semester and year in which the student completed the required units in a state recognized CTE program. For school year 2025-26, the entry would be FA25 if the student completed in the fall of 2025 or SP26 if the student completed in the spring of 2026.

- **Data Entry** (dropdown box): appropriate semester and 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 Earned, Certification Admin Year, and Certification Admin Location 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 Earned fields (formerly named **Certification Passed**) indicate the attainment 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 2025-26, the entry would be FA25 if the examination was taken in the fall of 2025 or SP26 for spring 2026.

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

Certification Admin Location fields 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 a 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

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*

**CTSO Membership codes 10-12 can no longer be selected.*

CTE Placement Code

School districts and career centers are required by South Carolina law (S.C. Code Ann. § 59-53-1960) and by State Board of Education Regulation 43-234 to survey their 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.

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)

Blank = [default]

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)

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 workforce 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 from Other PowerSchool Pages

Non-CTE data are used for reporting purposes and are extracted from other pages in PowerSchool. Information regarding the fields can be found in the [Student Information System Data Entry Manual](#).

Individuals with Disabilities

The data for this special population will be extracted from the **Instructional Setting** field located on the South Carolina Student Information page and **EFA** fields located on the EFA Code Entry page.

English Learners

The data for this special population will be extracted from the **English Proficiency Level** field located on the South Carolina Student Information page. The English Proficiency Level field indicates the student's proficiency level in English.

Homeless Individuals

The data for this special population will be extracted from the **Primary Night Time Residence** field located on the Homeless Student Information custom screen. The Primary Night Time 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 South Carolina Student Information page. The Foster Home field indicates whether 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 South Carolina 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 South Carolina Student Information page.

Diploma Earned

The **Diploma Earned** field indicates the type of diploma the student earned and is located on the South Carolina Student Information page.

CTE Course Location (Remote Enrollment)

Students taking CTE courses at a location other than their home high school (e.g., career center, other high school) must be enrolled remotely at that location. In most cases, the following must be done to correctly record enrollment in a remote CTE course section:

- The external school/center must be created as a remote school in the PowerSchool instance of the student's home district. Exceptions may exist, but typically the home district will be responsible for establishing the remote school in their PowerSchool system.
- A student taking a course at a remote location should be enrolled in the newly created remote school.
- After creating a remote school, and enrolling the course section at the alternative location, SCDE CTE staff will see the student's remote CTE course attributed to the external school/center for any applicable data sent to the agency.

Notes: Remote enrollment replaces the use of the District Where Taught and School Where Taught fields to determine the location of CTE courses not taught at a student's home high school. The 2025-26 school year marks the full implementation of this new process.

District PowerSchool Administrators should be consulted for additional information regarding this process.

Data Collection and Submission Notes

- Ensure that the appropriate CIP Code(s) has been selected from the drop-down list. A listing of CIP Codes can be found in Appendix C.
- Ensure that the CTE Completer field(s) and related fields are correctly coded.
- Ensure that the seven-digit school identification number (SIDN) is correctly entered in the CTE Program Location field for programs that are not at the student's home high school.
- Ensure all certifications/credentials have been entered and correctly coded.
- 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 Diploma Earned field has been coded on the South Carolina Student Information page.

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

- Verify final grades before submitting data to the SCDE.
- Perform data checks during data submissions to ensure your datasets are complete and accurate.
- Submit your CTE data on or before the deadlines:

Placement Data Collection
CTE Data Collection

April 16, 2026
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 > Data and Reporting > Exports > Quick Student Export

The screenshot displays the 'Quick Student Export' page in the PowerSchool SIS application. The left sidebar contains navigation links for People, BrightArrow, Attendance, Health, School Enrollment, Courses and Programs, and Data and Reporting. The main content area shows the export configuration for 668 selected students. The fields list includes SchoolID, Last_Name, First_Name, S_SC_STU_CATE_X_CATE_ConcntrInd, S_SC_STU_CATE_X_CATE_CIPCode, S_SC_STU_CATE_X_CATE_RemoteSchCode, and S_SC_STU_CATE_X_CATE_ConcntrInd2. The Field Delimiter is set to Tab, and the Record Delimiter is set to CR. The 'Surround Fields' checkbox is unchecked, and the 'Export DCID' checkbox is checked. A 'Submit' button is located at the bottom right of the form.

To work with subsets of the Student database, please use an initial filter 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_ConcntrInd2=Y`.

Examples:

1. Concentrator/CIP Code Export

SchoolID
Last_Name
First_Name
S_SC_STU_CATE_X.CATE_ConcntrInd
S_SC_STU_CATE_X.CATE_CIPCode
S_SC_STU_CATE_X.CATE_RemoteSchCode
S_SC_STU_CATE_X.CATE_ConcntrInd2
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

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”))

SchoolID

Last_Name

First_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_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 “S_SC_STU_X.DiplomaEarnCode in F,Z”

“S_SC_STU_CATE_X.CATE_CompleterInd=Y” or

“S_SC_STU_CATE_X.CATE_CompleterInd2=Y”))

SchoolID

Last_Name

First_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
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.InstrSetting
S_SC_STU_X.Engl_Prof
S_SC_STU_X.Night_Residence
S_SC_STU_X.Foster_Home
S_SC_STU_X.ParentsMilitaryStatus
S_SC_STU_X.Migrant

6. Certification Export

As of school year 2019-20 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 16 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 and find the **Data and Reporting** section on the left side of the page and click the arrow to expand the options.
- Select the **Exports** option 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 2019-20 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 Administered, Passed, Admin Year, Admin Location.
- Proceed to the next section to select any filters needed in the export. A filter can be placed on things such as students or columns. If you wish to filter by column, note that you can only filter by columns 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 school year 2019-20, 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

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 or 4** 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 reading/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 reading/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 Post-Program 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 Concentration

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:

- Earns a Silver, Gold or Platinum National Career Readiness Certificate on the ACT WorkKeys exam or earns a Level 3 Credential or above on The WIN SC Career Ready Test (SCRT).

Note: The WIN SCRT is the current career readiness test provided by WIN in South Carolina. This test is not the same as the WIN Ready to Work (R2W) test, which is no longer offered and on which a student needed to earn a Level 4 Credential or above to be deemed career ready.

- Earns a scale score of 31 or higher on the ASVAB.

Note: A student can be deemed career-ready with proper documentation of a qualifying ASVAB score obtained at any time in the past. Although reprinted ASVAB score reports may only be requested up to two years from the date of testing (see (<https://www.asvabprogram.com/faq>), scores do not expire for the purpose of demonstrating career readiness.

- Is a CTE completer and earns a national industry or state recognized credential as determined by the business community. The approved career ready industry recognized credential list can be found at **2023-24 Career and Technical (CTE) Certifications with Career Ready Status**
- Successful completion of a South Carolina approved career ready work-based learning experience and must have all the following criteria met and verified by the school:
 - A training agreement which defines a combination of objectives and a minimum of 40 practical experience hours, or the highest number of hours required for completion outlined in the training agreement and/or industry defined competencies in the career pathway.
 - WBL placement is aligned to the student’s IGP Career Goal.
 - Includes an industry evaluation that is created from the training agreement, which is mutually developed and includes the world-class skills from the Profile of the SC Graduate with a positive employer evaluation score, 3 or higher on a scale of 1-5. 1 being the lowest performance indicator and 5 being the highest performance indicator. A sample template is provided by the SCDE, CTESTS at **SC Work-Based Learning Training Agreement and Evaluation Plan**

- 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.

South Carolina approved career ready work-based learning experience qualifiers include registered apprenticeships, youth apprenticeships, co-ops, and internships.

- 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).

Source: **2024-25 SC Education Oversight Committee Accountability Manual**

Required Documentation of Evidence for the Career Ready WBL

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. WBL Career Ready qualifier documentation of evidence includes the student's Individual Graduation Plan (IGP) at the time of the WBL placement and the completed **SC Work-Based Learning Training Agreement and Evaluation Plan**/providing proof of successful completion of the WBL placement in its entirety.

WBL Data Reporting in PowerSchool.

To ensure compliance to the letter of the law, all districts and school/career centers are required to report all qualifying WBL experiences for accountability in the Student Information Management System (PowerSchool) on the WBL Page. In accordance with the South Carolina EEDA of 2005, data must be collected and reported for ALL students participating in a WBL experience. All students include K-12. A concise process to ensure that ALL WBL experiences and WBL career readiness qualifiers are captured and are reported accurately should be in place at each school.

For complete guidelines for the Career Ready WBL qualifier, refer to the **SC Work-Based Learning Implementation Guide**.



Appendix C: CTE Clusters, Programs, and Courses

According to Advanced CTE, the National Career Clusters Framework has been updated and modernized, including changes to the names of the clusters to better reflect current industry standards and workforce needs. This modernized Framework will provide learners with more personalized paths to living wage jobs and gain skills for a variety of careers. The Framework will allow CTE educators with the ability to align, design and deliver programs that better reflect the interdisciplinary nature of the clusters and work, include stronger career exploration and advising models, and enhance the connection between in-and out of-classroom experiences such as work-based learning. Industries will be able to hire learners with a lifelong learning world view whose interests, skills, and work-based experiences align with industry sector organization and their hiring needs. This new Framework also strives to be a step forward in achieving more connected career readiness language that acts as a bridge between industry and education. State CTE leaders will be able to design programs and experiences that are more responsive to industry needs and provide resources/guidance to local leaders that reflect the needs of the modern workplace.

Students will continue to 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. There are now 14 Career Clusters representing more than 79 South Carolina Career Pathways to help students navigate their way to greater success in college and career readiness. The 14 clusters represent all career possibilities:

- Advanced Manufacturing
- Agriculture
- Arts, Entertainment, & Design
- Construction
- Digital Technology
- Education
- Energy & Natural Resources
- Financial Services
- Healthcare & Human Services
- Hospitality, Events, & Tourism
- Management & Entrepreneurship
- Marketing & Sales
- Public Service & Safety
- Supply Chain & Transportation

This new and revised information can be found on the Advance CTE Web page. Please refer to the link [**\[ACTEFRAMEWORK\]**](#) for additional detailed 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 27 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 2025-26

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 2025-26

Concentrator Courses

- All programs require the completion of at least two identified courses in a state recognized CTE program except for 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 (**).

CTE Internship, Work-Based Credit Learning Courses*

- An internship is a structured, work-based credit bearing course that is taken as a component of state recognized Career and Technical Education (CTE) Classification of Instructional Programs (CIP)-coded programs for CTE students. 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. **SC Work-Based Learning Implementation Guide** 

***The CTE Internship Work-Based Credit-Bearing Course should be counted as the fourth or fifth unit of a CTE completer program. Please refer to the above link.**

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.**

Legislative Requirement for One Half Unit Graduation Credit Course

- Section 1. Article 1, Chapter 29 of the 1976 Code - Section 59-29-17
(A) Each student attending a public high school in this State, including a charter school, shall complete a one-half credit course of study in basic personal finance as a requirement for high school graduation.

Course Code	Course Title
5141	Personal Finance

Note: This course cannot count as a part of a CTE completer program.

High School Career Exploration Course – One (1) Carnegie Unit

Course Code	Course Title
57S0	Career Exploratory

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
<i>Arts, Entertainment, & Design</i>	500407	Fashion Design and Apparel Construction
	500408	Interior Design
<i>Digital Technology</i>	151202	Information Support and Services
	110901	Networking Systems
	110201	Programming and Software Development
	110801	Web and Digital Communications
<i>Education</i>	190101	Family and Consumer Sciences
<i>Financial Services</i>	520801	Academy of Finance
	520301	Accounting
	520803	Banking Services
	520804	Business Finance
	521701	Insurance
	520807	Securities and Investment
<i>Healthcare & Human Services</i>	260102	Biomedical Sciences – PLTW
	510999	EMS
	190501	Food Science
	510000	Healthcare Science
	120407	Natural Hair Braiding #
	512208	Public Health
	310505	Sports Medicine
	120410	Nail Technology
<i>Hospitality, Events, & Tourism</i>	520905	Culinary Arts Management
<i>Management & Entrepreneurship</i>	520401	Administrative Services
	520208	Business Information Management
	520201	General Management
	521001	Human Resources Management
	520204	Operations Management
	520904	Hospitality and Tourism Management
<i>Marketing & Sales</i>	090903	Marketing Communications
	521401	Marketing Management
	521402	Marketing Analytics
	521802	Merchandising
	521501	Real Estate
<i>Public Service & Safety</i>	440501	Governance
	440401	Public Management and Administration
	430203	Emergency & Fire Management Services
	430107	Law Enforcement Services
<i>Supply Chain & Transportation</i>	490109	Drone Technology

Advanced Manufacturing Cluster

The Advanced Manufacturing Career Cluster blends innovative technologies and practices to enhance design and production. It covers areas such as engineering, research and development, automation, equipment maintenance, safety protocols, and quality control. Advanced Manufacturing aims to increase efficiency and reduce waste, ensure safety, and produce high-quality goods, driving the industry's growth and adapting to modern demands.

Course Code	Course Title for <i>Advanced Manufacturing Cluster</i>
57R0	Siemens Engineering Design
57R1	Siemens Manufacturing and Automation
57R2	Siemens Mechatronics and the Internet of Things (IoT)
57R3	Siemens Engineering Research and Development
6040	Industrial Technology Education (Exploratory) 1
6041	Industrial Technology Education (Exploratory) 2
6045	Introduction/Intermediate Manufacturing Technology
6050	PLTW – Principles of Engineering
6051	PLTW – Introduction to Engineering Design
6052	PLTW – Digital Electronics
6053	PLTW – Computer Integrated Manufacturing
6054	PLTW – Capstone
6056	PLTW – Aerospace Engineering
6058	PLTW – Civil Engineering and Architecture
6133	Electronics Technology 1
6134	Electronics Technology 2
6135	Electronics Technology 3
6136	Electronics Technology 4
6144	PLTW – Engineering Essentials
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

Course Code	Course Title for <i>Advanced Manufacturing Cluster</i>
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
6370	Core Engineering 1
6371	Core Engineering 2
6372	PLTW – Computer Science Essentials
6374	PLTW – Environmental Sustainability
6375	Core Engineering 3
6376	Core Engineering 4
6377	PLTW – Computer Science Principles
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
6490	Manufacturing Internship, Work-Based Credit
6499	Manufacturing, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
150801	Aerospace Engineering Technology
143501	Core Engineering
470101	Electronics Technology
150613	Integrated Production Technology
480503	Machine Technology
150404	Mechatronics Integrated Technologies
480501	Metal Fabrication
140101	Pre-Engineering (Project Lead the Way)
144201	Siemens Engineering
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*.

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

Pre-Engineering/Engineering & Industrial Technology Education 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 – Capstone

PLTW – Engineering Essentials (EE)

PLTW – Environmental Sustainability (ES)

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

Electronics Technology

470101

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

Electronics Technology 1**

Electronics Technology 2**

Electronics Technology 3

Electronics Technology 4

Advanced 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

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

Advanced Technology for Design and Production**

Systems of Advanced Technology**

Mechatronic Systems for Advanced Production

Design for the Production of Advanced Products

Advanced Manufacturing Internship, Work-Based Credit

Machine Technology

480503

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

Machine Tool Technology 1**

Machine Tool Technology 2**

Machine Tool Technology 3

Machine Tool Technology 4

Or

Mechanical Design 1**

Mechanical Design 2**

Machine Tool Technology 1

Machine Tool Technology 2

Advanced Manufacturing Internship, Work-Based Credit

Mechatronics Integrated Technologies

150404

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

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

Advanced 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:

Electronics Technology 1

Electronics Technology 2

Manufacturing Internship, Work-Based Credit

Or

PLTW – Introduction to Engineering Design

PLTW – Principles of Engineering

Advanced Manufacturing Internship, Work-Based Credit

Metal Fabrication

480501

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

Metal Fabrication 1**

Metal Fabrication 2**

Metal Fabrication 3

Metal Fabrication 4

Advanced Manufacturing Internship, Work-Based Credit

Pre-Engineering (Project Lead the Way)

140101

*The Pre-Engineering (Project Lead the Way) CIP-coded program requires four courses and 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 – Capstone
PLTW – Environmental Sustainability (ES)
Pre-Engineering/Engineering & Industrial Technology Education Internship, Work-Based Credit

Siemens Engineering

144201

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

Required Courses:

Siemens Engineering Design**
Siemens Manufacturing and Automation**
Siemens Mechatronics and the Internet of Things (IoT)
Siemens Engineering Research and Development
Pre-Engineering/Engineering & Industrial Technology Education Internship, Work-Based Credit

Welding Technology

480508

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

Welding Technology 1**
Welding Technology 2**
Welding Technology 3
Welding Technology 4
Advanced Manufacturing Internship, Work-Based Credit

Agriculture Cluster

The Agriculture Career Cluster concentrates on the scientific advancement, cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems, as well as other plant and animal-based industries like regenerative agriculture, sustainable logging, and fisheries. This cluster significantly overlaps with the Energy and Natural Resources Cluster, highlighting a symbiotic relationship that emphasizes stewardship and resilient communities.

Course Code	Course Title for <i>Agriculture Cluster</i>
5600	Agribusiness and Marketing
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
5627	Soil and Water Conservation
5630	Soils and Soilless Research
5634	Floriculture
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
5679	Equine Science
5691	Agricultural and Biosystems Science

Course Code	Course Title for <i>Agriculture Cluster</i>
5692	Biosystems Mechanics and Engineering
5693	Biosystems Technology Career Development 1
5694	Biosystems Technology Career Development 2
5695	Biosystems Technology 3
5696	Biosystems Technology 4
5690	Agriculture Internship, Work-Based Credit
5699	Agriculture, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
010205	Agricultural Mechanics and Technology
140301	Biosystems Engineering Technology
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 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 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 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 Internship, Work-Based Credit

Arts, Entertainment, & Design Cluster

The Arts, Entertainment, & Design Career Cluster combines creative roles in visual and performing arts, film, journalism, fashion, interior design, and creative technologies. This cluster focuses on creating, producing, and sharing artistic and design work across multiple platforms, aiming to entertain, inform, beautify, and inspire.

Course Code	Course Title for Arts, Entertainment, & Design 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, Entertainment, & Design Internship, Work-Based Credit
5299	Arts, Entertainment, & Design, LBA
57K8	Fashion and Interior Internship Work-Based Credit #
57K9	Fashion and Interior, 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, Entertainment, & Design 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, Entertainment, & Design 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**

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

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*
Fundamentals of Computing*
Marketing Management*
Mechanical Design 1*
Fashion and Interior 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, Entertainment, & Design 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**

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

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 Computing*
Fundamentals of Project Management
Graphic Communication 1
Housing and Interiors 1*
Housing and Interiors 2

Introduction to Graphic Communication
Marketing Management*
Mechanical Design 1*
Fashion and Interior 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, Entertainment, & Design Internship, Work-Based Credit

Construction Cluster

The Construction Career Cluster focuses on professions involved in designing, planning, managing, and executing projects in the built environment. It emphasizes sustainable building practices to ensure structures are both environmentally responsible and resilient. Professionals in this field are pivotal in creating durable infrastructure that meets present needs without compromising future generations' ability to meet their own, covering a range of roles from architects and engineers to construction managers and skilled tradespeople.

Course Code	Course Title for <i>Construction</i> Cluster
5330	Home Smart Systems Technology
6001	Introduction to Construction
6003	HVAC/R Technology 1
6004	HVAC/R Technology 2
6005	HVAC/R Technology 3
6006	HVAC/R Technology 4
6060	Building Construction Technology 1
6061	Building Construction Technology 2
6062	Building Construction Technology 3
6063	Building Construction Technology 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

Course Code	Course Title for <i>Construction</i> Cluster
6307	Electrical Line Worker 3
6308	Electrical Line Worker 4
6690	Construction Internship, Work-Based Credit
6299	Construction, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
460000	Building Construction Technology
480703	Cabinetmaking
460201	Carpentry
460303	Electrical Line Worker Technology
460301	Electricity
470201	HVAC/R 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*.

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

Building Construction Technology

460000

Introduction to Construction
 Building Construction Technology 1**
 Building Construction Technology 2**
 Building Construction Technology 3
 Building Construction Technology 4
 Construction Internship, Work-Based Credit

Cabinetmaking

480703

Introduction to Construction
 Cabinetmaking 1**
 Cabinetmaking 2**
 Cabinetmaking 3
 Cabinetmaking 4
 Construction Internship, Work-Based Credit

Carpentry**460201**

Introduction to Construction

Carpentry 1**

Carpentry 2**

Carpentry 3

Carpentry 4

Or

Architectural Design 1**

Architectural Design 2**

Carpentry 1

Carpentry 2

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

Construction Internship, Work-Based Credit

Electricity**460301**

Introduction to Construction

Electricity 1**

Electricity 2**

Electricity 3

Electricity 4

Construction Internship, Work-Based Credit

HVAC/R Technology**470201**

Introduction to Construction

HVAC/R Technology 1**

HVAC/R Technology 2**

HVAC/R Technology 3

HVAC/R Technology 4

Construction Internship, Work-Based Credit

Masonry**460101**

Introduction to Construction

Masonry 1**

Masonry 2**

Masonry 3

Masonry 4

Construction Internship, Work-Based Credit

Plumbing**460503**

Introduction to Construction

Plumbing 1**

Plumbing 2**

Plumbing 3

Plumbing 4

Construction Internship, Work-Based Credit

Digital Technology

The Digital Technology Career Cluster combines the development of digital systems that support communication and data storage using critical technologies like artificial intelligence, data analytics, and cybersecurity. It prepares professionals to navigate and lead in the constantly evolving tech landscape, focusing on everything from software development to data analytics to cyber safety. This cluster drives innovation across all industries and clusters to tackle complex challenges and opportunities in our communities and economies.

Course Code	Course Title for <i>Digital Technology</i> 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	Introduction to Computer Programming
5051	Intermediate Computer Programming
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

Course Code	Course Title for <i>Digital Technology</i> Cluster
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
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
57M0	Introduction to Artificial Intelligence
57M1	Artificial Intelligence 1
6372	PLTW – Computer Science Essentials
6373	PLTW – Computer Science A
6377	PLTW – Computer Science Principles
6378	PLTW – Cybersecurity
6891	Computers, Networks and Databases
6892	Design for the Digital World
6893	Databases in the Cloud
6894	Developing a Cloud Presence
4778	AP Cyber: Networking #
4779	AP Cyber: Cybersecurity #
5390	Digital Technology Internship, Work-Based Credit
5399	Digital 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 (CS) (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** or **AP Cyber: Security** #**

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

Advanced Networking

AP Computer Science Principles

AP Cyber: Networking #

Artificial Intelligence 1

Computer Forensics

Fundamentals of Computing

Introduction to Artificial Intelligence

IT Fundamentals

Networking Fundamentals

PLTW – Computer Science Essentials

PLTW – Computer Science Principles

PLTW – Cybersecurity

Digital Technology Internship, Work-Based Credit

Computer Science (PLTW)

110701

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

Required Courses:

PLTW – Computer Science Essentials**

PLTW – Cybersecurity**

PLTW – Computer Science Principles** **Or** AP Computer Science Principles**

PLTW – Computer Science A** **Or** AP Computer Science A**

IGCSE Computer Science (0478)**

Digital Technology Internship, Work-Based Credit*

***Note: This course is not a completer program requirement but can be taken as a fifth course.**

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

AP Cyber: Networking #

AP Cyber: Cybersecurity #

Artificial Intelligence 1

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 Artificial Intelligence
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
Digital 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
Digital Technology Internship, Work-Based Credit

Information Support and Services

151202

*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*

AP Cyber: Networking* #

AP Cyber: Cybersecurity* #

Artificial Intelligence 1*
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 Artificial Intelligence*
Introduction to Computer Programming*
IT Fundamentals*
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 Leadership Development
SAS Programming 1
SAS Programming 2
Server Administration*
Digital Technology Internship, Work-Based Credit

*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** or **AP Cyber: Networking** #**

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

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*

AP Cyber: Cybersecurity* #

Artificial Intelligence 1*

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

Home Smart Systems Technology*

IGCSE Computer Science (0478)*

Information Systems

Intermediate Computer Programming
Introduction to Artificial Intelligence*
Introduction to Computer Programming
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*
Digital Technology Internship, Work-Based Credit

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**

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*
AP Cyber: Networking* #
AP Cyber: Cybersecurity* #
Artificial Intelligence 1*
Computer Forensics*
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
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*
Introduction to Artificial Intelligence*
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
Digital 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*

AP Cyber: Networking* #

AP Cyber: Cybersecurity* #

Artificial Intelligence 1*
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*
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 Artificial Intelligence*
Introduction to Computer Programming*
IT Fundamentals*
Java Fundamentals and Java Programming*
Mobile Applications Development*
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
Digital 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*
AP Cyber: Networking* #
AP Cyber: Cybersecurity* #
Artificial Intelligence 1*
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*
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 Artificial Intelligence*
Introduction to Computer Programming*
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
Digital Technology Internship, Work-Based Credit

Or

Required Courses:

Computer Programming 1 with Visual Basic**
Computer Programming 2 with Visual Basic**

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*
AP Cyber: Networking* #
AP Cyber: Cybersecurity* #
Artificial Intelligence 1*
Computer Forensics*
Computer Programming 1 with C++*
Computer Programming 1 with Java*
Computer Programming 1 with Python*
Computer Programming 1 with Swift*
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)*
Information Systems*
Intermediate Computer Programming
Introduction to Artificial Intelligence*

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
Digital 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*
AP Cyber: Networking* #
AP Cyber: Cybersecurity* #
Artificial Intelligence 1*
Computer Forensics*
Computer Programming 1 with C++*
Computer Programming 1 with Java*
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 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

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*
Intermediate Computer Programming
Introduction to Artificial Intelligence*
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
Digital 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*
AP Cyber: Networking* #
AP Cyber: Cybersecurity* #
Artificial Intelligence 1*
Computer Forensics*
Computer Programming 1 with C++*
Computer Programming 1 with Java*
Computer Programming 1 with Python*

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 Visual Basic
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)*
Information Systems*
Intermediate Computer Programming
Introduction to Artificial Intelligence*
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
Digital 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*
AP Cyber: Networking* #
AP Cyber: Cybersecurity* #
Artificial Intelligence 1*
Computer Forensics*
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*
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*
Intermediate Computer Programming
Introduction to Artificial Intelligence*
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
Digital Technology Internship, Work-Based Credit

*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**

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

Advanced Animation*

Advanced Computer Programming

AP Computer Science A*

AP Computer Science Principles*

AP Cyber: Networking* #

AP Cyber: Cybersecurity* #

Artificial Intelligence 1*

Business Data Applications

Computer Forensics*

Computer Programming 1 with C++*

Computer Programming 1 with Java*

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 Swift

Computer Programming 2 with Visual Basic

Cyber Security Fundamentals*

Database Design and Programming with SQL*

Database Programming with PL/SQL

Digital Media Marketing*

Digital Multimedia*

Digital Publication Design

Digital Technologies*

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 Artificial Intelligence*
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*
Digital Technology Internship, Work-Based Credit

Education Cluster

The Education Career Cluster spans careers aimed at fostering learning from early childhood to adulthood, covering areas like teaching, instructional design, counseling services, community engagement, learner support, and educator training. This cluster emphasizes quality educational standards and lifelong learning, preparing individuals for success through all life stages by nurturing knowledge, skills, and critical thinking, encouraging personal growth in a constantly evolving world.

Course Code	Course Title for <i>Education Cluster</i>
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
5759	Nutrition and Wellness (<i>Refer to Appendix D</i>)
5760	Sports Nutrition
5800	Child Development 1 (<i>Refer to Appendix D</i>)
5801	Child Development 2
5804	Fashion, Fabric, and Design 1 (<i>Refer to Appendix D</i>)
5805	Fashion, Fabric, and Design 2
5808	Family and Consumer Sciences 1
5809	Family and Consumer Sciences 2
5812	Financial Fitness
5816	Parenting Education
5820	Family Life Education
5824	Foods and Nutrition 1 (<i>Refer to Appendix D</i>)
5825	Foods and Nutrition 2
5830	Housing and Interiors 1 (<i>Refer to Appendix D</i>)
5831	Housing and Interiors 2
5834	Human Development: Responsible Life Choices
6108	Mental Health Fitness
6390	Education Internship, Work-Based Credit
6399	Education, LBA
5890	Family and Consumer Sciences Internship, Work-Based Credit
5899	Family and Consumer Sciences, LBA

Course Code	Course Title for Dual Enrollment <i>Education</i> 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
190101	Family and Consumer Sciences
190704	Family Systems and Mental Health
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**

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

Child Development 1*

Child Development 2*

Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only)*

Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only)*

Entrepreneurship

Family and Consumer Sciences 1*

Family and Consumer Sciences 2*

Digital Workplace Applications

Family Life Education*

Foods and Nutrition 1*

Foods and Nutrition 2*

Fundamentals of Computing*
Healthcare Science 1 – Foundations of Healthcare Professionals*
Introduction to Early Childhood Education*
Introduction to Teaching 1*
Mental Health Fitness*
Parenting Education *
Education Internship, Work-Based Credit

Family and Consumer Sciences

190101

The Family and Consumer Sciences (FCS) 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 completer 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 post-secondary 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
Fashion, Fabric, and Design 1
Fashion, Fabric, and Design 2
Financial Fitness or Advanced Personal Finance
Foods and Nutrition 1
Foods and Nutrition 2
Housing and Interiors 1
Housing and Interiors 2
Human Development: Responsible Life Choices
Mental Health Fitness
Parenting Education
Nutrition and Wellness
Sports Nutrition

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

Baking and Pastry*
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*
 Fundamentals of Computing*
 Healthcare Science 1 – Foundations of Healthcare Professionals*
 Interior Design 1*
 Introduction to Culinary Arts Management*
 Introduction to Early Childhood Education*
 Introduction to Hospitality and Tourism Management*
 Introduction to Teaching 1*
 Advanced Personal Finance*
 Family & Consumer Sciences Internship, Work-Based Credit

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*
 Fundamentals of Computing*
 Healthcare Science 1 – Foundations of Healthcare Professionals*
 Human Development: Responsible Life Choices*
 Introduction to Early Childhood Education*
 Introduction to Teaching 1*
 Parenting Education*
 Family & Consumer Sciences Internship, Work-Based Credit

Introduction to Teaching

130101

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

Required Courses:

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

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

Child Development 1*

Child Development 2*

Digital Workplace Applications

Dual Enrollment Teacher Cadet – Educational Psychology (CTE Completers Only)*

Dual Enrollment Teacher Cadet – Experiencing Education (CTE Completers Only)*

Early Childhood Education 1*

Entrepreneurship

Family and Consumer Sciences 1*

Family and Consumer Sciences 2*

Family Life Education*

Fundamentals of Computing*

Healthcare Science 1 – Foundations of Healthcare Professionals*

Human Development: Responsible Life Choices

Introduction to Early Childhood Education*

Mental Health Fitness*

Parenting Education*

Web Page Design and Development

Education Internship, Work-Based Credit

Energy & Natural Resources Cluster

The Energy & Natural Resources Career Cluster spans careers in traditional and renewable energy generation, utilities, environmental preservation and conservation, ecological research, and resource extraction. These industries focus on efficient and responsible resource management, aiming to minimize environmental impacts and meet global energy needs. An interconnected relationship exists with the Agriculture Cluster as practices in energy and resource management are directly influenced by agricultural production.

Course Code	Course Title for <i>Energy & Natural Resources Cluster</i>
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
5642	Forestry
5660	Agricultural Mechanics and Technology
5663	Aquaculture
5674	Wildlife Management
5691	Agricultural and Biosystems Science
5692	Biosystems Mechanics and Engineering
6140	The Nature of Science and Technology**
6141	Core Applications of Science and Technology**
6142	Impacts of Science Technology
6143	Creativity and Innovations
6380	Clean Energy Systems (Course 1)
6381	Clean Energy Applications (Course 2)
6382	Clean Energy Strategies (Course 3)
6383	Clean Energy Innovations (Course 4)
5690	Agriculture Internship, Work-Based Credit
5699	Agriculture, LBA
6090	Pre-Engineering/Engineering & Industrial Technology Education Internship, Work-Based Credit
6099	Pre-Engineering/Industrial Technology Education, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
149999	Clean Energy
030101	Environmental and Natural Resources Management
410000	Innovations in Science and 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*.

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)

Pre-Engineering/Engineering & Industrial Technology Education Internship, Work-Based Credit

Environmental and Natural Resources Management

030101

*The Environmental and Natural Resources Management CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

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 Soiless Research
Agriculture 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
Pre-Engineering/Engineering & Industrial Technology Education Internship, Work-Based Credit

Financial Services Cluster

The Financial Services Career Cluster encompasses careers in managing and advising financial transactions, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. These careers contribute to economic stability and growth by supporting the financial health of individuals and organizations.

Course Code	Course Title for <i>Financial Services Cluster</i>
5001	Accounting 1
5005	Accounting 2
5131	Advanced Personal Finance
5271	Banking Services
5273	Business Finance
5275	Insurance and Risk Management
5277	Securities and Investments
6190	Financial Services Internship, Work-Based Credit
6899	Financial Services, 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*.

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

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

Required Courses:

Accounting 1**

Accounting 2**

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

Advanced Personal Finance*

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

Professional and Leadership Development

Securities and Investments

Virtual Enterprise 1

Virtual Enterprise 2

Virtual Enterprise 3

Virtual Enterprise 4

Workplace Communications*

Financial Services Internship, Work-Based Credit

Banking Services

520803

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

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*

Advanced Personal Finance*

Professional and Leadership Development*

Professional Sales*

Securities and Investments

Workplace Communications*

Financial Services Internship, Work-Based Credit

Business Finance

520804

The Business Finance CIP-coded program requires a minimum of three (3) Carnegie units.

The concentrator courses are identified with **.

Required Courses:

Accounting 1**

Business Finance**

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

Accounting 2

Advanced Personal Finance*

Banking Services*

Business Data Applications*

Business Law*

Digital Workplace Applications*

Entrepreneurship*

Fundamentals of Business, Marketing and Finance*

Insurance and Risk Management

International Business*

Marketing*

Professional and Leadership Development*

Professional Sales*

Securities and Investments*

Workplace Communications*

Financial Services Internship, Work-Based Credit

Insurance

521701

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

Required Courses:

Business Finance**

Insurance and Risk Management**

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

Accounting 1*

Accounting 2

Advanced Personal Finance*

Banking Services

Business Data Applications*

Business Law*

Business Principles and Management

Digital Workplace Applications*

Entrepreneurship*

Fundamentals of Business, Marketing and Finance*

Marketing*

Professional and Leadership Development*

Professional Sales*

Securities and Investments

Social Media Marketing*

Workplace Communications*

Financial Services Internship, Work-Based Credit

Securities and Investments

520807

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

Required Courses:

Business Finance**

Securities and Investments**

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

Accounting 1*

Accounting 2

Advanced Personal Finance*

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*
Professional and Leadership Development
Professional Sales*
Workplace Communications*
Financial Services Internship, Work-Based Credit

Healthcare and Human Services Cluster

The Healthcare & Human Services Career Cluster promotes holistic well-being in individuals and communities through a diverse array of services. This includes technical, mental, therapeutic, and personal care, supported by medical and social sciences. By addressing social determinants of health and leveraging health data and science, this cluster aims to enhance the overall health and resilience of individuals, families, and communities.

Course Code	Course Title for <i>Healthcare & Human Services Cluster</i>
5520	Practical Nursing, Phase 1
5524	Introduction to Behavioral Health
5531	Emergency Medical Services 1
5532	Emergency Medical Services 2
5533	Emergency Medical Services 3
5540	Medical Terminology
5550	Healthcare Science 1 – Foundations of Healthcare Professionals
5551	Healthcare Science 2 – Essential Healthcare Practices
5552	Healthcare Science – Human Structure, Function & Disease
5555	Sports Medicine 1
5556	Sports Medicine 2
5557	Sports Medicine 3
5560	Healthcare 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
5589	Public Health Capstone
5757	Food Science 1
5758	Food Science 2
6145	Introduction to Natural Hair Braiding #
6146	<i>Natural Hair Braiding 1</i>
6147	Natural Hair Braiding 2 #
6150	Cosmetology 1
6151	Cosmetology 2
6152	Cosmetology 3
6153	Cosmetology 4
6154	Nail Technology 1
6155	Nail Technology 2

Course Code	Course Title for <i>Healthcare & Human Services</i> Cluster
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
6166	Esthetics 5 #
5588	Public Health Internship, Work-Based Credit
5590	Healthcare Science Internship, Work-Based Credit
5591	Sports Medicine Internship, Work-Based Credit
5599	Healthcare Science, LBA
5790	Human Services Internship, Work-Based Credit
5799	Human Services LBA
6890	Food Science, Work-Based Credit

CIP Code	Program Title (See below for the approved courses for each CTE program)
120402	Barber/Master Hair Care
260102	Biomedical Sciences (Project Lead the Way)
120401	Cosmetology
510999	EMS
120409	Esthetics
190501	Food Science
510000	Healthcare Science
120410	Nail Technology
120407	Natural Hair Braiding #
513999	Practical Nursing
512208	Public Health
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.

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:

Human Services Internship, Work-Based Credit

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

Healthcare Science – Human Structure, Function & Disease*

Healthcare Science 1 – Foundations of Healthcare Professionals

Healthcare Science 2 – Essential Healthcare Practices

Introduction to Behavioral Health

Medical Terminology*

Pharmacology for Medical Careers

PLTW – Biomedical Innovation

PLTW – Medical Interventions*

Sports Medicine 1

Sports Medicine 2

Healthcare Science Internship, Work-Based Credit

Sports Medicine 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 **.***

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

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*

Healthcare Science – Human Structure, Function & Disease*

Healthcare Science 1 – Foundations of Healthcare Professionals

Healthcare Science 2 – Essential Healthcare Practices

Introduction to Behavioral Health

Medical Terminology*

Pharmacology for Medical Careers

PLTW – Human Body Systems*

PLTW – Principles of Biomedical Sciences

Sports Medicine 1

Sports Medicine 2

Healthcare Science Internship, Work-Based Credit

Sports Medicine Internship, Work-Based Credit

Esthetics

120409

*The Esthetics CIP-coded program requires a minimum of five (5) Carnegie units and completion of 600 hours. **The concentrator courses are identified with **.***

Required Courses:

Esthetics 1**

Esthetics 2**

Esthetics 3

Esthetics 4

Esthetics 5 #

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

Human Services 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:

Baking and Pastry

Foods and Nutrition 1*

Food Processing*

Fundamentals of Computing*

Nutrition and Wellness*

Sports Nutrition

Food Science, Work-Based Credit

Healthcare Science

510000

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

Required Courses:

Healthcare Science 1 – Foundations of Healthcare Professionals**

Healthcare Science 2 – Essential Healthcare Practices**

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

Advanced Principles of Public Health

Emergency Medical Services 1

Emergency Medical Services 2

Foundations of Public Health

Healthcare Science – Human Structure, Function & Disease*

Healthcare Science Clinical Study

Introduction to Behavioral Health

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

Healthcare Science Internship, Work-Based Credit

Sports Medicine 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

Natural Hair Braiding #**120407**

*The Natural Hair Braiding CIP-coded program requires a minimum of (3) Carnegie units and completion of 360 hours. **The Concentrator courses are identified with **.***

Required Courses:

Natural Hair Braiding 1**

Natural Hair Braiding 2#**

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

Accounting*

Entrepreneurship*

Introduction to Natural Hair Braiding #

Fundamentals of Computing*

Fundamentals of Web Page Design and Development*

Marketing*

Human Services Internship, Work-Based Credit

Practical Nursing**513999**

Practical Nursing, Phase 1

Healthcare Science 1 – Foundations of Healthcare Professionals**

Healthcare Science 2 – Essential Healthcare Practices**

Or

Emergency Medical Services 1**

Emergency Medical Services 2**

Or

Sports Medicine 1**

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:

Foundations of Public Health**

Advanced Principles of Public Health**

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

Healthcare Science 1 – Foundations of Healthcare Professionals*

Healthcare Science 2 – Essential Healthcare Practices

Healthcare Science Human Structure Function and Disease

Introduction to Behavioral Health

Medical Terminology

PLTW Human Body Systems
Public Health Capstone
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
Healthcare Science – Human Structure, Function & Disease*
Healthcare Science 1 – Foundations of Healthcare Professionals
Healthcare Science 2 – Essential Healthcare Practices
Introduction to Behavioral Health
Pharmacology for Medical Careers
PLTW – Human Body Systems*
PLTW – Principles of Biomedical Sciences
Sports Medicine 3*
Sports Nutrition*
Medical Terminology*
Healthcare Science Internship, Work-Based Credit
Sports Medicine Internship, Work-Based Credit

Hospitality, Events, & Tourism Cluster

The Hospitality, Events, & Tourism Career Cluster encompasses a broad range of services and experiences related to food and beverage, lodging, travel, events, and conferences. This cluster focuses on delivering quality customer service, memorable experiences, and seamless logistics to cater to the needs and preferences of guests, travelers, and event participants. This sector is characterized by its diversity, including everything from luxury hotels and international travel to local dining, cultural events, and business conferences, aiming to enhance the overall experience of visitors and attendees.

Course Code	Course Title for <i>Hospitality, Events, & Tourism Cluster</i>
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, Events, & Tourism Internship, Work-Based Credit
5199	Hospitality, Events, & Tourism, LBA

Course Code	Course Title for Hospitality & Tourism Cluster: Cambridge
81D100GWBB	AS Travel and Tourism
81D000GW	A Travel and Tourism

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**

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

Accounting 1*

Culinary Arts Management 1*

Digital Workplace Applications

Entrepreneurship*

Event and Entertainment Management*

Foods and Nutrition 1*

Fundamentals of Computing*

Fundamentals of Web Page Design and Development

Introduction to Culinary Arts Management*

Introduction to Hospitality and Tourism Management

Nutrition and Wellness

Safety and Sanitation*

Hospitality, Events, & 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**

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

Accounting 1*

Digital Workplace Applications

Entrepreneurship*

Event and Entertainment Management*

Foods and Nutrition 1*

Fundamentals of Computing*

Fundamentals of Web Page Design and Development

Introduction to Culinary Arts Management*
Introduction to Hospitality and Tourism Management*
Mental Health Fitness
Nutrition and Wellness*
Safety and Sanitation*
Sports Nutrition*
Hospitality, Events, & 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** or Sports Entertainment Management**

Lodging Management**

Travel and Tourism Management** or AS Travel and Tourism** or A Travel and Tourism**

Culinary Arts Management 1**

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

Accounting 1

Culinary Arts Management 1

Digital Workplace Applications

Entrepreneurship

Foods and Nutrition 1

Fundamentals of Computing

Fundamentals of Web Page Design and Development

Introduction to Culinary Arts Management

Marketing Management

Mental Health Fitness

Safety and Sanitation

Sports and Entertainment Management

Sports and Entertainment Marketing

Hospitality, Events, & Tourism Internship, Work-Based Credit

Management & Entrepreneurship Cluster

The Management & Entrepreneurship Career Cluster involves skills and occupations that are essential across all industries, focusing on optimizing operations, strategic planning, and workforce management. It merges key areas such as accounting, data management and analysis, human resources, general operations, project management, and leadership. This cluster ensures businesses of all sizes and types efficiently meet their goals, adapt to market changes, and maintain competitive advantage.

Course Code	Course Title for <i>Management & Entrepreneurship Cluster</i>
5007	Google Applications
5020	Digital Workplace Applications
5021	Business Data Applications
5030	Digital Multimedia
5032	International Business
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	Management & Entrepreneurship Internship, Work-Based Credit
5499	Management & Entrepreneurship, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
520401	Administrative Services
520208 #	Business Information Management (<i>521206 Old Code Phasing Out</i>)
520201	General Management

CIP Code	Program Title (See below for the approved courses for each CTE program)
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*.

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

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

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*

Management & Entrepreneurship Internship, Work-Based Credit

Business Information Management

520208#

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*

Management & Entrepreneurship Internship, Work-Based Credit

General Management

520201

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

Required Courses:

Accounting 1**

Entrepreneurship**

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

Accounting 2*

Advanced Business Law

Advanced Personal Finance
 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*
 Fundamentals of Project Management
 Fundamentals of Webpage Design and Development*
 Google Applications
 International Business*
 Marketing Management
 Marketing*
 Natural Hair Braiding 1*
 Professional and Leadership Development*
 Social Media Marketing*
 Virtual Enterprise 1*
 Virtual Enterprise 2
 Virtual Enterprise 3
 Virtual Enterprise 4
 Workplace Communications*
 Management & Entrepreneurship Internship, Work-Based Credit

Human Resources Management

521001

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

Required Courses:

Business Law**
 Fundamentals of Human Resource Management**

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

Advanced Personal Finance
 Business Data Applications*
 Business Principles and Management*
 Digital Publication Design
 Digital Workplace Applications*
 Entrepreneurship
 Fundamentals of Business, Marketing, and Finance*
 Google Applications
 International Business
 Professional and Leadership Development*

Workplace Communications*

Business Management & Administration Internship, Work-Based Credit

Operations Management

520204

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

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*

Management & Entrepreneurship Internship, Work-Based Credit

Marketing & Sales Cluster

The Marketing & Sales Career Cluster focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, human-centered design, and retail strategies to build strong customer connections and support business growth. This cluster is essential for creating value, ensuring public transparency, and achieving commercial success in a competitive marketplace.

Course Code	Course Title for <i>Marketing & Sales Cluster</i>
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
5450	Fundamentals of Real Estate Practice
5451	Advanced Real Estate Practice
5470	Advertising
5471	Professional Sales
5091	Marketing & Sales Internship, Work-Based Credit
5099	Marketing & Sales, 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
521501	Real Estate

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.

Marketing Analytics

521402

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

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 & Sales Internship, Work-Based Credit

Marketing Communications

090903

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

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*
 Sports and Entertainment Marketing*
 Virtual Enterprise 1*
 Virtual Enterprise 2
 Virtual Enterprise 3
 Virtual Enterprise 4
 Workplace Communications*
 Marketing & Sales Internship, Work-Based Credit

Marketing Management

521401

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

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 & Sales Internship, Work-Based Credit

Merchandising

521802

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

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 & Sales Internship, Work-Based Credit

Real Estate

521501

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

Required Courses:

Fundamentals of Real Estate Practice **
Advanced Real Estate Practice **

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

Digital Media Marketing*
Entrepreneurship*
Fundamentals of Business, Finance, and Marketing*
Housing and Interiors 1
Marketing*
Professional Sales*
Marketing & Sales Internship, Work-Based Credit

Public Service & Safety Cluster

The Public Service & Safety Career Cluster encompasses roles in local, state, and federal government, legal and justice systems, security, and military operations, all aimed at promoting civic responsibility, and ensuring the well-being, security, and functionality of communities, states, and countries.

Course Code	Course Title for <i>Public Service & Safety Cluster</i>
3751	JROTC 1 #
3752	JROTC 2 #
3753	JROTC 3 #
3754	JROTC 4 #
6505	Introduction to Law, Public Safety, Corrections & Security
6510	Law Enforcement Services 1
6511	Law Enforcement Services 2
6514	Fire Fighter 1
6515	Fire Fighter 2
6516	Fire Fighter 3
6526	Legal Systems Technology 1
6527	Legal Systems Technology 2
6570	Foundation of Leadership
6571	Principles of Public Management and Administration
6572	Community and Regional Planning
6585	Military Science 1 #
6586	Military Science 2 #
6587	Military Science 3 #
6588	Military Science 4 #
6589	Military Science Internship, Work-Based Credit #
6699	Military Science, LBA
6580	Judicial Systems Internship, Work-Based Credit
6799	Government & Public Administration, LBA
6590	Public Service & Safety Internship, Work-Based Credit
6599	Public Service & Safety, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
280101	Air Force JROTC #
280301	Army JROTC #
280505	Coast Guard JROTC #
280401	Marine Corps JROTC #
280499	Navy JROTC #
280502	Space Force JROTC #
220301	Paralegal Systems Technology
430107	Law Enforcement Services
430203	Emergency and Fire Management Services
440401	Public Management and Administration
440501	Governance

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: Each district will determine their branch of service for the completer program status to be added into PowerSchool. The fifth and sixth course code positions identify the military branch associated with the cadet unit. Use them as follows: 01 Air Force; 02 Army; 03 Coast Guard; 04 Marine Corps; 05 Navy; and 06 Space Force. The course name can be modified to include the military branch.

For example, if a student follows the Air Force JROTC completer program, the following course codes will be entered: JROTC 1- 375101, JROTC 2-375201, JROTC 3-375301 and JROTC 4-375401 or Military Science 1-658501, Military Science 2-658601, Military Science 3-658701, Military Science 4-658801 and Military Science Internship, Work Based Credit 658901.

Air Force JROTC #

280101

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

Required Courses:

Air Force JROTC 1 #**

Air Force JROTC 2 #**

Air Force JROTC 3 #

Air Force JROTC 4 #

Additional approved courses:

Military Science 1 #

Military Science 2 #

Military Science 3 #

Military Science 4 #

Military Science Internship, Work-Based Credit #

Army JROTC #

280301

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

Required Courses:

Army JROTC 1 #**

Army JROTC 2 #**

Army JROTC 3 #

Army JROTC 4 #

Additional approved courses:

Military Science 1 #

Military Science 2 #

Military Science 3 #

Military Science 4 #

Military Science Internship, Work-Based Credit #

Coast Guard JROTC #

280505

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

Required Courses:

Coast Guard JROTC 1 #**

Coast Guard JROTC 2 #**

Coast Guard JROTC 3 #
Coast Guard JROTC 4 #

Additional approved courses:

Military Science 1 #
Military Science 2 #
Military Science 3 #
Military Science 4 #
Military Science Internship, Work-Based Credit #

Marine Corps JROTC # 280401

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

Required Courses:

Marine Corps JROTC 1** #
Marine Corps JROTC 2** #
Marine Corps JROTC 3 #
Marine Corps JROTC 4 #

Additional approved courses:

Military Science 1 #
Military Science 2 #
Military Science 3 #
Military Science 4 #
Military Science Internship, Work-Based Credit #

Navy JROTC # 280499

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

Required Courses:

Navy JROTC 1** #
Navy JROTC 2** #
Navy JROTC 3 #
Navy JROTC 4 #

Additional approved courses:

Military Science 1 #
Military Science 2 #
Military Science 3 #
Military Science 4 #
Military Science Internship, Work-Based Credit #

Space Force JROTC #

280502

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

Required Courses:

Space Force JROTC 1 #**
Space Force JROTC 2 #**
Space Force JROTC 3 #
Space Force JROTC 4 #

Additional approved courses:

Military Science 1 #
Military Science 2 #
Military Science 3 #
Military Science 4 #
Military Science Internship, Work-Based Credit #

Paralegal Systems Technology

220301

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

Required Courses:

Legal Systems Technology 1**
Legal Systems Technology 2**
Advanced Business Law
Business Law

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

Judicial Systems Internship, Work-Based Credit

Law Enforcement Services

430107

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

Required Courses:

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

Public Service & Safety Internship, Work-Based Credit

Emergency and Fire Management Services**430203**

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

Required Courses:

Fire Fighter 1**

Fire Fighter 2**

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

Fire Fighter 3

Introduction to Law, Public Safety, Corrections and Security

Emergency Medical Services 3

Public Service & Safety 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**.***

Required Courses:

Foundation of Leadership**

Principles of Public Management and Administration**

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

Fundamentals of Project Management

Judicial Systems Internship, Work-Based Credit

Governance

440501

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

Required Courses:

Community and Regional Planning**
Foundation of Leadership**

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

Business Law
Judicial Systems Internship, Work-Based Credit

Supply Chain & Transportation Cluster

The Supply Chain & Transportation Career Cluster encompasses the movement, coordination and management of goods from production to consumption, ensuring efficient movement across various modes of transportation including air, ground, and water, as well as maintenance of the respective transport modes. This cluster integrates logistics and distribution networks to facilitate the seamless flow of materials and products, playing a crucial role in global commerce, economic development, and community health.

Course Code	Course Title for <i>Supply Chain & Transportation Cluster</i>
57T1	Drone Technologies 1: Theory and Aeronautical Basics
57T2	Drone Technologies 2: Theory and Design
57T3	Drone Technologies 3: Learn to Fly
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
6318	Commercial Driving License 1
6319	Commercial Driving License 2
6320	Commercial Driving License 3
6321	Commercial Driving License 4
6790	Supply Chain & Transportation Internship, Work-Based Credit
6199	Supply Chain & Transportation, LBA

CIP Code	Program Title (See below for the approved courses for each CTE program)
470603	Automotive Collision Repair Technology
470604	<i>Automotive and Hybrid/BEV Technology</i>
490205	Commercial Vehicle Operation
470605	Diesel Engine Technology
490109	Drone 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*.

Automotive Collision Repair Technology

470603

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

Automotive Collision Repair Technology 1**
Automotive Collision Repair Technology 2**
Automotive Collision Repair Technology 3
Automotive Collision Repair Technology 4
Supply Chain & Transportation Internship, Work-Based Credit

Automotive and Hybrid/BEV Technology

470604

*The Automotive and Hybrid/BEV Technology CIP-coded program requires a minimum of four (4) Carnegie units. **The concentrator courses are identified with **.***

Automotive Technology 1**
Automotive Technology 2**
Automotive Technology 3
Automotive Technology 4
Supply Chain & Transportation Internship, Work-Based Credit

Commercial Vehicle Operation or Commercial Driving License Operation **490205**

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

Commercial Driving License 1 **
Commercial Driving License 2 **
Commercial Driving License 3
Commercial Driving License 4
Supply Chain & Transportation Internship, Work-Based Credit

Diesel Engine Technology **470605**

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

Diesel Engine Technology 1**
Diesel Engine Technology 2**
Diesel Engine Technology 3
Diesel Engine Technology 4
Supply Chain & Transportation Internship, Work-Based Credit

Drone Technology **490109**

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

Drone Technologies 1: Theory and Aeronautical Basics**
Drone Technologies 2: Theory and Design**
Drone Technologies 3: Learn to Fly*
Supply Chain & Transportation Internship, Work-Based Credit

Global Logistics & Supply Chain Management **520203**

*The Global Logistics & Supply Chain Management CIP-coded program requires a minimum of four (4) Carnegie units. The concentrator courses are identified with **.*

Introduction to Logistics**
Functional Areas in Logistics**
Global Logistics Management
Logistics and Supply Chain Management
Supply Chain & Transportation Internship, Work-Based Credit

Power Equipment Technology

470606

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

Power Equipment Technology 1**

Power Equipment Technology 2**

Power Equipment Technology 3

Power Equipment Technology 4

Supply Chain & Transportation 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
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
1830	Introduction to Career Clusters
1840	Industrial Technology Education
1841	<i>Deleted</i>
1853	Digital Literacy
1856	Introduction to Agriculture
1858	Exploratory Family and Consumer Sciences

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

Course Code	Course Title
2702	Computer Applications
2703	Multimedia Basics
2704	Google Basics
2705	Financial Literacy (<i>Phasing Out June 30, 2025</i>)
2706	Keyboarding
2780	PLTW – (Gateway to Technology) Design and Modeling
2781	PLTW – (Gateway to Technology) Automation and Robotics
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 to Technology) 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

Course Code	Course Title
2830	Introduction to Career Clusters
2839	Introduction to Health Professions
2840	Industrial Technology Education
2841	Deleted
2845	Fundamentals of Science and Technology
2846	Applications of Science and Technology
2853	Digital Literacy
2856	Introduction to Agriculture
2857	Introduction to Family and Consumer Service Sciences 1
2858	Introduction to Family and Consumer Service Sciences 2

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

Course Code	Course Title - Family and Consumer Sciences
5759	Nutrition and Wellness
5800	Child Development 1
5804	Fashion, Fabric and Design 1
5808	Family and Consumer Sciences 1
5824	Foods and Nutrition 1
5830	Housing and Interiors 1

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 (CS - Seventh and Eighth Grades)

Course Code	Course Title - Computer Science
5023	Fundamentals of Computing
5028	Fundamentals of Computing Part 1
5029	Fundamentals of Computing Part 2
5061	Discovering Computer Science
5062	Discovering Computer Science Part 1
5063	Discovering Computer Science 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 units 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	<i>Automotive and Hybrid/BEV Technology</i>
120402	Barber/Master Hair Care
140301	Biosystems Engineering Technology
460000	Building Construction Technology
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/R 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 – Deleted]

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 – The American Welding Society (AWS)

The American Welding Society (AWS) certifies the skills of engineers, inspectors, technicians, and welders. 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 – Deleted]

[09 – Deleted]

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. [[W!SE](#)]

[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 Public Health (DPH) 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

The First Responder Certification curriculum provides the student with vital training that will permit the rendering of lifesaving techniques at roadside until EMS arrives. National Highway Traffic Safety Administration (NHTSA) provides national curriculum for first responders, while the American Safety and Health Institute (ASHI), provides an Emergency Medical Response training program 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](#)] [[ECHT](#)]

19 – IC 3 Digital Literacy Global Standard Six Certification

The Internet and Computing Core Certification (IC³) Global Standard Six certification 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. Students must pass all three level tests to earn this certification. [[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]

Completing the NCCER Core explains the importance of safety in 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. Each Local Education Agency (LEA) using NCCER certifications must be an Accredited Training Education Facility (ATEF) approved under an Authorized Training Sponsor (ATS) with an approved certified instructor. [[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 – National Institute for Metalworking Skills (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 Certificate of Achievement

The National ProStart ® Certificate of Achievement is awarded to students who have passed two national exams, demonstrated a mastery of foundational skills and worked 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. [\[SCLLR COS\]](#)

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 – Deleted]

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 non-clinical 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 complete a 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. A license as a nail technologist 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. [\[LLRSCNT\]](#)

56 – NCCER-Core [see entries 25-31]

Completing the NCCER Core explains the importance of safety in 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. [\[NCCER\]](#)

[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 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. [\[CCENT\]](#)

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63 – Occupational Safety and Health Administration (OSHA) 10 Certification

The OSHA 10 certification is industry specific or general workplace safety training and 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.

OSHA 10 Career Focus [\[OSHA10CF\]](#)

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

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66 – Broad Field Family and Consumer Sciences

Broad Field Family and Consumer Sciences assessment/certification competencies are consistent with the National Standards for Family and Consumer Sciences Education.

Content includes human services, consumer services, education and training, and social and community services. [[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 – Deleted]

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](#)]

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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 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's leading web development tool, enabling users to efficiently design, develop and maintain standards-based web sites and applications. [[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. [[ACPVCPREMIEREPRO](#)]

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107 – ASE Diesel Engines

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 is 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. [\[I-CAR\]](#)

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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 the position 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-on 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. [\[I-CAR\]](#)

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. [[NATEHVAC](#)]

146 – NATE-Heating Ventilation Air Conditioning [[NATEHVAC](#)]

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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. [[QBCERU](#)]

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](#)]

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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 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 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 – Deleted]

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]

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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**

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See North American Technicians Excellence (NATE)

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206 – Bing Ads-Microsoft 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 a 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 – Deleted]

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 Certification

The Google Analytics certification 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. [[GAC](#)]

[214 – Deleted]

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

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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 an SCFA certificate. [[SCDLLR](#)]

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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 an 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 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 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 in 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**

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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 – Deleted]

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. [\[NADSP-REG\]](#) [\[NADSP\]](#) [\[DDSNCS\]](#)

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 – Deleted]

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 – Deleted]

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. [\[PV101\]](#)

260 – Pesticide Applicators License

This training prepares students to take the Core and Category 3 (Turf and Ornamentals) Pesticide exams. A pesticide inspector will 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, have a 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. [\[ACFCC\]](#)

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275 – CompTIA Cloud Essentials

The CompTIA Cloud Essentials certification focuses on 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](#)]

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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](#)]

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288 – TestOut Client Pro Certification

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

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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– Deleted]

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 their 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 explores 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. [[CIWNNTA](#)]

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 – Deleted]

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. [[CIWSSMS](#)]

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 – Deleted]

307 – CIW E-Commerce Services Specialist

This certification 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](#)]

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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 – YouScience Industry Certification: Commercial Art II

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

314 – YouScience Industry Certification: Digital Print Design

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

315 – YouScience Industry Certification: 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. [[YOUSDP](#)]

316 – YouScience Industry Certification: Commercial Photography I

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

317 – YouScience Industry Certification: Digital Media I

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

318 – YouScience Industry Certification: Digital Media 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. [[YOUSCIENCEESC](#)]

319 – YouScience Industry Certification: Advanced Digital Media

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. [[YOUSCIENCEESC](#)]

[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 – Deleted]

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

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 – YouScience Industry Certification: Business Leadership 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. [[YOUSBLI](#)]

350 – YouScience Industry Certification: Business Leadership 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. Students will also be in charge of organizing and implementing a class project. [[YOUSBLII](#)]

351 – YouScience Industry Certification: 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. [[YOUSCIENCE](#)]

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 demonstrates 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 the job market. [\[AUTODESK\]](#)

358 – AutoDesk Inventor

The Autodesk Inventor Certified User exam demonstrates 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 demonstrates 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 the job market. [\[AUTODESK\]](#)

360 – HACCP (Hazard Analysis Critical Control Point)

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. [\[FOODMC\]](#)

YouScience Industry Certifications

YouScience 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, YouScience 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. [\[YOUSIC\]](#)

362 – YouScience Industry Certification: CAD Architectural Design I

363 – YouScience Industry Certification: CAD Architectural Design II

364 – YouScience Industry Certification: CAD Architectural Design III

365 – YouScience Industry Certification: CAD Mechanical Design I
366 – YouScience Industry Certification: CAD Mechanical Design II
367 – YouScience Industry Certification: CAD Mechanical Design III
368 – YouScience Industry Certification: Engineering Technology
369 – YouScience Industry Certification: Robotics I
370 – YouScience Industry Certification: Robotics II
371 – YouScience Industry Certification: Small Engineer Repair I
372 – YouScience Industry Certification: 3D Animation
373 – YouScience Industry Certification: Sports and Outdoor Product Design I
374 – YouScience Industry Certification: Sports and Outdoor Product Design II
375 – YouScience Industry Certification: Television Broadcasting I
376 – YouScience Industry Certification: Television Broadcasting II
377 – YouScience Industry Certification: Accounting I
378 – YouScience Industry Certification: Accounting II
379 – YouScience Industry Certification: Business Communications I
380 – YouScience Industry Certification: Business Management
381 – YouScience Industry Certification: Digital Business Applications
382 – YouScience Industry Certification: Exploring Business & Marketing
383 – YouScience Industry Certification: General Financial Literacy
384 – YouScience Industry Certification: Personal Financial Responsibility
385 – YouScience Industry Certification: Child Development

[386 – Deleted]

387 – YouScience Industry Certification: Banking and Finance
388 – YouScience Industry Certification: Advertising and Promotion
389 – YouScience Industry Certification: Digital Marketing
390 – YouScience Industry Certification: Real Estate

[391 – Deleted]

392 – YouScience Industry Certification: Sports and Entertainment Marketing

[393 – Deleted]

[394 – Deleted]

[395 – Deleted]

[396 – Deleted]

[397 – Deleted]

[398 – Deleted]

399 – YouScience Industry Certification: Exercise Science and Sports Medicine
400 – YouScience Industry Certification: Health Science Fundamentals
401 – YouScience Industry Certification: Medical Anatomy and Physiology

[402 – Deleted]

403 – YouScience Industry Certification: Medical Assistant-Clinical and Laboratory Procedures

404 – YouScience Industry Certification: Medical Assistant-Medical Office Mgmt.

[405 – Deleted]

406 – YouScience Industry Certification: Medical Forensics

407 – YouScience Industry Certification: Medical Terminology

408 – YouScience Industry Certification: Nutrition and Wellness

409 – YouScience Industry Certification: Physical Therapy, Introduction

410 – YouScience Industry Certification: Computer Programming II (C#)

411 – YouScience Industry Certification: Computer Programming II (C++)

412 – YouScience Industry Certification: Computer Programming II (Java)

413 – YouScience Industry Certification: Computer Programming II (Python)

414 – YouScience Industry Certification: Desktop Publishing II

415 – YouScience Industry Certification: Event Planning & Management

416 – YouScience Industry Certification: Lodging & Recreation

417 – YouScience Industry Certification: 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 Industrial 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 allows 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 – Deleted]

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. [[MOS365](#)]

[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® DigComp

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 training and understanding of proper sanitation and disinfection practices and procedures consistent with the current highest industry standards. [\[BARBICIDE\]](#)

449 – Lucas-Cide Safe Space 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 – YouScience Industry Certification: 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 – YouScience: Industry Certification: 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](#)] [[HIPAA](#)]

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 – C Programming Language Certified Associate Certificate (CLA)

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. [\[PCPP2CPPP\]](#)

491 –YouScience Industry Certification: 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. [\[CHSWDEVL1C\]](#)

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 with 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. 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. [\[TIREIND\]](#)

503 – Veterinary Assistant I

Students will be exposed to veterinary science and principles which include anatomy, physiology, chemistry, animal health and disease, dentistry, and laboratory procedures. Students will provide hands-on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care. [\[YOUSCIENCEVAI\]](#)

504 – Veterinary Assistant II

Students will be exposed to veterinary science and principles which include anatomy, physiology, chemistry, animal health and disease, dentistry, and laboratory procedures.

Students will provide hands-on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care. [\[YOU SCIENCEVA2\]](#)

Autodesk Certified Professional

A new way of learning and certifying for today's adaptive industry professionals and innovators. Autodesk can help students stay on the edge of industry convergence and changing roles through self-paced learning. [\[AUTOPEARSON\]](#)

505 – Autodesk Certified Professional in AutoCAD for Design and Drafting

506 – Autodesk Certified Professional in Civil 3D for Infrastructural Design

507 – Autodesk Certified Professional in Revit for Architectural Design

508 – Autodesk Certified Professional in Revit for Electrical Design

509 – Autodesk Certified Professional in Revit for Mechanical Design

510 – Autodesk Certified Professional in Revit for Structural Design

Certiport Certifications

Certiport's certifications, particularly entry level, can help build a skilled workforce that meets the needs of local employers and government tech initiatives. [\[CERTIPORT\]](#)

511 – Autodesk Certified User: 3DS Max

512 – Autodesk Certified User: Fusion 360

513 – Autodesk Certified User: Revit Architecture

514 – Unity Certified User: Artist

515 – Unity Certified User: Programmer

516 – Unity Certified User: VR Developer

517 – Intuit Certified Bookkeeping Professional

Intuit Certified Bookkeeping Professional, an entry-level certification, demonstrates students' knowledge in core concepts in accounting; accounting for assets and sales transactions; accounting for liabilities, equity, and purchase transactions; reconciliation and financial statements. [\[CERTBKG\]](#)

518 – Intuit Design for Delight Innovator

The Intuit Design for Delight Innovator certification helps individuals validate their knowledge of design thinking principles and the tools needed to identify problems, gain customer empathy, brainstorm solutions, run experiments, test assumptions, pivot, and much more. This type of thinking promotes creativity, critical thinking, complex problem solving, and other skills that are much needed and valued in today's workforce. This certification covers three key principles that focus on how individuals can solve problems, innovate, and "delight" their customers. [\[CERTDBD\]](#)

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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. [\[TOSA\]](#)

519 – TOSA® CyberCitizen

520 – TOSA® Google Docs

521 – TOSA® Google Sheets

522 – TOSA® Google Slides

523 – TOSA® PowerPoint 2019

524 – TOSA® VBA Excel 2019

525 – TOSA® Word 2019

TOSA® Code

The TOSA Code offers evaluation and certification test on popular programming languages. The assessment tests are conducted online and the TOSA certifications must be taken in exam conditions in an approved center or remotely, via an integrated proctoring solution. [\[TOSACODE\]](#)

[526 – Deleted]

527 – TOSA® Web Developer

528 – TOSA® JavaScript

529 – TOSA® WordPress

[530 – Deleted]

[531 – Deleted]

[532 – Deleted]

[533 – Deleted]

[534 – Deleted]

[535 – Deleted]

YouScience Industry Certifications

YouScience 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, YouScience 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. [\[YOUSCIENCESC\]](#)

536 – YouScience Industry Certification: Business Law

537 – YouScience Industry Certification: Entrepreneurship

538 – YouScience Industry Certification: Marketing 1

539 – CIW Multimedia Specialist Exam Objective

This exam focuses heavily on the strategies and tactics used to prepare, create, edit and publish video files compatible with the Web and mobile devices. This certification focuses less on creating pages or user interface design, and more on advanced video and audio creation. [\[CIWMSEO\]](#)

[540 – Deleted]

541 – Cisco Certified Support Technicians (CCST) Networking

This certification validates an individual's skills and knowledge of entry-level networking concepts and topics. The certification demonstrates foundational knowledge and skills needed to show how networks operate, including the devices, media, and protocols that enable network communications. [\[CISCOCCSTN\]](#)

542 – Cisco Certified Support Technicians (CCST) Cybersecurity

This certification validates an individual's skills and knowledge of entry-level cybersecurity concepts and topics, including security principles, network security and endpoint security concepts, vulnerability assessment and risk management, and incident handling. [\[CISCOCCST\]](#)

543 – Department of Corrections Certificate

The certificate earned in the third law enforcement class will allow students to be easily hired by the SC Department of Corrections as Corrections Officers and eliminate these new recruits from having to take this same academic component at their Academy. This statewide certification will speed up the training for students enrolled in the approximately 32 CTE law related programs should they choose a career with SCDC at one of their 21 institutions distributed across the state. [\[SCDC\]](#)

544 – Sports Career Consulting Business of Sports Certification

The Sports Career Consulting Business of Sports Certification consists of semester-long lessons with several post-lesson tests (183 questions total), leading to certification. Upon completion, students demonstrate content mastery in sports & entertainment marketing, branding & licensing and sports sales, service and promotion as provided through the Sports Career courseware bundle. [\[SCC\]](#)

[545 – Deleted]

546 – Private Pilot Knowledge Certification

The Private Pilot Knowledge Certification requires knowledge of preflight procedures, airspace, radio communications, aviation terminology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. [[AOPA](#)]

Federal Emergency Management Agency (FEMA) – Emergency Management Institute (EMI)

The EMI offers self-paced courses designed for people who have emergency management responsibilities and the general public. All are offered free-of-charge to those who qualify for enrollment.

547 – IS-906 Workplace Security Awareness

Threats endanger the confidentiality, integrity, and security of your workplace, as well as your virtual workplace and computer systems. This course presents information on how employees can contribute to your organization's security. [[IS906](#)]

548 – IS-907 Active Shooter: What You Can Do

All employees can help prevent and prepare for potential active shooter situations. This course provides guidance to individuals, including managers and employees, so that they can prepare to respond to an active shooter situation. [[IS907](#)]

549 – IS-909 Community Preparedness: Implementing Simple Activities for Everyone

The purpose of this course is to present a model program for community preparedness. [[IS909](#)]

550 – IS-700.B: An Introduction to the National Incident Management System

This course provides an overview of the National Incident Management System (NIMS). The National Incident Management System defines the comprehensive approach guiding the whole community - all levels of government, nongovernmental organizations (NGO), and the private sector - to work together seamlessly to prevent, protect against, mitigate, respond to, and recover from the effects of incidents. The course provides learners with a basic understanding of NIMS concepts, principles, and components. [[IS700B](#)]

551 – Protecting Human Research Participants

This online training is perfect for anyone involved in human subjects, research, including investigators, students, Institutional Review Boards (IRBs), and others responsible for human research policies and procedures. Course content reflects the 2018 revised Common Rule and current guidance. The tutorial will take about 4 hours to complete. [[PHRP](#)]

552 – Crisis Prevention Training

CPI is an international training organization that specializes in the safe management of disruptive and assaultive behavior through the use of verbal as well as restrictive de-escalation strategies and techniques. [[CPIT](#)]

ASE Diesel Technology

These certifications 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](#)]

553 – ASE: Diesel Technology-Brakes**554 – ASE: Diesel Technology-Electrical/Electronic Systems****555 – ASE: Diesel Technology-Suspension & Steering****556 – ASE: Diesel Technology-Inspection, Maintenance, and Minor Repairs****557 – Advanced Real Estate Practice Pre-Licensing Certification**

This certification validates students' advanced knowledge in topics necessary to succeed in a career in real estate sales and/or property management. Students will test their knowledge in depth on the following five topics: agency law and required disclosures, real estate contracts, measurement and valuation, ethics, and fair housing laws. To achieve this certification, students must pass the final exam with a grade of 70% or higher. Individuals pursuing licensure as a real estate salesperson are required to satisfy the same requirements as this certification prior to licensure in South Carolina. [[SCLLRES](#)]

558 – Bloomberg 101 Market Concepts Certification

Bloomberg 101 Market Concepts certification validates students' knowledge in key concepts and skills necessary to succeed in finance careers. Students will test their knowledge in market concepts, economic indicators, currencies, fixed income, equities portfolio finance fundamentals management, and finance. To achieve this certification, students must achieve an 80 or higher. [[BLOOMBERG](#)]

559 – Fundamentals of Real Estate Practice Pre-Licensing Certification

This certification validates students' knowledge in key concepts and skills necessary to succeed in a career in real estate sales and/or property management. Students will test their general knowledge of real estate economics, property interests, ownership structures, agency relationships, contract law, regulation of the real estate industry, valuation, and financing. To achieve this certification, students must pass the final exam with a grade of 70% or higher. Individuals pursuing licensure as a real estate salesperson in South Carolina are required to satisfy the same requirements as this certification prior to sitting for the licensing exam. [[SCLLRES](#)]

560 – SC Registered Real Estate Salesperson License

The South Carolina Real Estate Commission is responsible for licensing and regulating the profession of real estate sales in the State of South Carolina. Students must be at least eighteen years old, complete the required courses in an approved secondary program, and pass the licensure examination. [[SCLLRRES](#)]

561 – CEVO 5 Online

This is an ambulance driving safety emergency vehicle operator course. It covers many operator topics including due regard, inspections, defensive driving in emergency and non-emergency situations, use of lights and sirens, distracted driving, fatigue, adverse weather, and more. [[CSCOACHSYS](#)]

562 – Stretching and Flexibility Coach

A Stretching and Flexibility Coach is a specialist who creates personalized stretching programs to prevent injury and increase the flexibility of clients. They are experts in progressing individuals to peak stretching performance. [[NASMSFC](#)]

563 – NC3/Kubota Tech: Engines

This certification teaches students the foundational knowledge to be a technician related to gas and diesel equipment. The strategies learned can be used in many fields that require knowledge of troubleshooting mechanical and electronic problems related to vehicles. The curriculum is centered around diesel and gas equipment used in many fields ranging from lawn maintenance, agriculture technology to construction. [[NC3](#)] and [[KUBOTATECH](#)]

564 – Yamaha Motor University – Motorsports

The Motorsports certification is a mirror image of the Marine Certification Program. Students will learn fundamentals in the shop and classroom, complete the certification module accordingly. [[YMU](#)]

[565 – Deleted]**566 – Solid Edge Mechanical Associate**

Secondary school students who have learned Solid Edge through an introductory engineering technology class, or participated in a STEM competition team such as FIRST Robotics are encouraged to take the Solid Edge Mechanical Associate Level exam. This certification demonstrates that you have a firm grasp on the knowledge required to create basic mechanical design models. [[SIEMENSA](#)]

567 – Solid Edge Mechanical Professional

Students who have learned and used Solid Edge through a engineering technology course or have used Solid Edge during an internship within industry, are encouraged to take the Solid Edge Mechanical Professional level exam to differentiate themselves in the engineering field. [[SIEMENSP](#)]

568 – High Power Rocketry Certification

Students will learn how to construct and test high power rockets utilizing engines of H class or greater. Students must construct, pass inspection, load, fly, and recover the rocket. They will conduct scientific research based on the data collected from the flight. [\[NAR\]](#)

YouScience Industry Certifications

YouScience 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, YouScience 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. [\[YOUSCIENCEESC\]](#)

569 – YouScience Industry Certification: Algorithms and Data Structures

570 – YouScience Industry Certification: Computer Programming Advanced

571 – YouScience Industry Certification: Computer Science Principles

572 – YouScience Industry Certification: Database Development

573 – YouScience Industry Certification: Web Development I

574 – YouScience Industry Certification: Web Development II

575 – YouScience Industry Certification: 3D Animation I

576 – YouScience Industry Certification: 3D Animation II

577 – Natural Resource Conservation Service (NRCS) Fundamentals of Conservation & Sustainability in Agriculture

This certification validates individuals have acquired knowledge and skills necessary to obtain careers in agricultural and natural resources. Those who earn the certification are more qualified and prepared to enter various roles within the conservation and sustainability job sectors. Additionally, the certification allows employers to identify and connect with more skilled candidates, filling gaps in the labor market and jump-starting individuals' careers. [\[NRCSICEV\]](#)

578 – Scissor Lift Certification

The Aerial Lift Trainer certification package covers all scissor lifts and will give the employee the knowledge, skills, and confidence they need to learn how to operate a scissor lift and achieve full OSHA compliance. Scissor lifts which are hydraulically powered aerial work platforms (AWPs) are commonly found on job sites throughout the country. They're highly efficient pieces of heavy equipment used for a variety of tasks related to maintenance, construction, and material handling activities. [\[SCISSOR\]](#)

579 – AWS B2.1-6010/7018 Pipe

This is a standard welding procedure certification with specifications of TYP a 6" SCH 40 Carbon Steel pipe with a SMAW E-6010 root and then followed with a SMAW E-7018 fill and cap. AWS D1.1 and AWS B2. [\[AWS6010\]](#)

580 – AWS B2.1 ER-7056 Root 7018

This is a standard welding procedure certification with specifications of TYP a 2” SCH Carbon Steel pipe with A GTAW ER70S-2 root and hot pass with SMAW E-7018 fill and cap, AWS D1 and AWS B2.1. [\[AWS7018\]](#)

581 – Titans of CNC Expert

Titans of CNC’s Expert certification cover the CAD and CAM portions are submitted to Titans. [\[TITANSE\]](#)

582 – Microsoft Certified: Azure AI Fundamentals Certification

This certification is an opportunity for you to demonstrate knowledge of machine learning and AI concepts and related Microsoft Azure services. This certification is intended for you if you have both technical and non-technical backgrounds. Data science and software engineering experience are not required. However, you would benefit from having awareness of:

- Basic cloud concepts
- Client-server applications [\[MCAAIFC\]](#)

583 – Critical Career Skills: Professional Communication Certification

The Professional Communication certification validates a comprehensive set of skills and competencies essential for effective communication in professional settings. The certification covers several objective domains, including basic communication principles, planning for effective communication, creating business deliverables, delivering messages, receiving communications, and analyzing communication scenarios. Students will learn to identify professional communication skills, differentiate between professional and unprofessional behaviors, and recognize effective verbal, nonverbal, and listening skills. They will also gain expertise in analyzing the effect of the audience and environment on a message, identifying the specific purpose of communication, and addressing ethical and legal issues. [\[CCSPCC\]](#)

584 – TOSA Autodesk AutoCAD Certification Exam

Autodesk AutoCAD is one of the world’s most powerful computer-aided design and drafting software applications. AutoCAD enables manufacturing, architecture, engineering, and construction professionals to draw and model in 2D and 3D environments. The Tosa Autodesk AutoCAD certification determines and validates a candidate’s proficiency and skill level in Autodesk’s commercial computer-aided design and drafting software application. [\[TOSAADACCE\]](#)

585 – TOSA Microsoft Excel Certification

The TOSA Microsoft Excel certification determines and validates a candidate’s proficiency and skill level in Excel. This certification is from a trusted, industry-recognized name in TOSA. [\[TOSA\]](#)

586 – Intuit Personal Finance Certification

The Intuit Personal Finance Certification validates a comprehensive range of skills and competencies essential for effective personal financial management. This credential covers six key areas: earning income, spending, saving, investing, managing credit, and managing risk. It equips individuals with the ability to interpret pay stubs, understand various taxes and withholdings, and compare employment opportunities. [\[CERTPICPF\]](#)

587 – ASExEV Electrical Safety Awareness Certification (Level 1)

The ASExEV Electrical Safety Awareness Certification Level 1 requires high-voltage electrical safety awareness to identify the hazards associated with and reduce the associated risks for anyone who may encounter an EV in the workplace. [\[ASEESAC\]](#)

588 – Basic Proficiency Evaluation for Remote Pilot (BPERP) Certificate

This is a basic proficiency evaluation for remote pilots. The NIST BPERP test lane was designed to quantitatively evaluate remote pilot proficiency by focusing on Safety, Capabilities, and Proficiency. The NIST BPERP test lane used in this course can be used to quantitatively evaluate remote pilot proficiency. [\[BPERP\]](#)

589 – AZ -900 - Microsoft Azure Fundamentals

The AZ-900: Microsoft Azure Fundamentals exam is designed to validate foundational knowledge of cloud services and how they are provided with Microsoft Azure. The exam covers key areas such as cloud concepts, core Azure services, Azure pricing and support, and the fundamentals of cloud security, privacy, compliance, and trust. Candidates will learn about Azure architecture, management, and governance, including how to describe Azure's core architectural components, services, and management tools. This certification teaches essential skills for leveraging Azure's capabilities to support cloud-based solutions and services. [\[CERTPMAF\]](#)

590 – DP-900 - Microsoft Azure Data Fundamentals

The DP-900: Microsoft Azure Data Fundamentals exam is designed to validate foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services. The exam covers key areas such as relational and non-relational data, big data, and analytics. Candidates will learn about Azure data storage options, data processing techniques, and data visualization tools. This certification teaches essential skills for managing and analyzing data using Azure, making it valuable for those looking to enhance their data management capabilities and pursue a career in data-related roles. [\[CERTPMADF\]](#)

591 – SC-900 - Microsoft Security, Compliance, and Identity Fundamentals

The SC-900: Microsoft Security, Compliance, and Identity Fundamentals exam is designed to validate foundational knowledge of security, compliance, and identity (SCI) concepts across Microsoft services. The exam covers key areas such as security principles, compliance management, and identity protection. Candidates will learn about Microsoft Entra, Microsoft security solutions like Microsoft Defender, and compliance solutions such as Microsoft Purview. This certification teaches essential skills for implementing and managing security, compliance, and identity solutions using Microsoft technologies. [\[CERTPMSCIF\]](#)

592 – TOSA Python 3 Certification

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics that can be utilized to perform a wide variety of tasks. Python's dynamic bindings, data structures, and ease of readability make it a very popular, and highly sought-after, programming language in today's marketplace – especially for Rapid Application Development. The Tosa Python industry-recognized certification determines and validates a candidate's proficiency and skill level in Python 3's key features, such as algorithms, input/output management, import and export, context and use cases, data structures, and dynamic bindings. The Tosa Python 3 certification supports students, trainees, employees, or jobseekers in their employment, professional, or academic objectives. [\[TOSAPYT\]](#)

593 – Information Technology Specialist: Artificial Intelligence Certification

The Information Technology Specialist: Artificial Intelligence certification rigorously assesses candidates' proficiency in key areas essential for developing robust AI solutions. The certification's objective domains encompass a comprehensive range of competencies. These include defining AI problems, where candidates must identify and classify problems, develop security plans, and ensure ethical AI use. In data collection, processing, and engineering, candidates are expected to demonstrate expertise in data acquisition, quality assessment, feature engineering, and documentation of data decisions. [\[CERTPAI\]](#)

594 – Information Technology Specialist: Cloud Computing

The Information Technology Specialist: Cloud Computing exam validates a candidate's foundational knowledge and skills in cloud computing. It covers a wide range of topics, including understanding the characteristics, advantages, and cost structures of cloud solutions. Candidates learn to distinguish between various cloud offerings and architectures, such as virtual machines, containers, and data storage options, and identify their appropriate use cases. The exam also delves into developing cloud architecture, implementing the cloud development lifecycle, deploying applications, and understanding cloud governance. Key areas include explaining cloud advantages, cost, performance, reliability, availability, and scalability to stakeholders, as well as managing operational costs, developing disaster recovery policies, and ensuring compliance with privacy and regulatory requirements. [\[CERTPCC\]](#)

595 – Information Technology Specialist: Computational Thinking Certification

The Information Technology Specialist (ITS) certification in Computational Thinking validates a candidate's ability to employ strategies for understanding and solving problems using computing principles. This credential demonstrates proficiency in decomposing problems, collecting and analyzing data, recognizing patterns, representing data through abstractions, and automating solutions using algorithmic thinking. [\[CERTPCT\]](#)

596 – Information Technology Specialist: Cybersecurity

The IT Specialist: Cyber Security exam is designed to assess foundational knowledge and skills in cybersecurity. This certification exam covers key areas such as security paradigms, terminology, and the mindset required to protect information systems. Candidates are tested on their understanding of threats, vulnerabilities, and the implementation of security measures to safeguard business operations. The exam emphasizes practical skills in risk assessment, incident response, and the application of security controls across various environments, including cloud and mobile platforms. [\[CERTPCYBS\]](#)

597 – Information Technology Specialist: Databases

The Information Technology Specialist: Databases exam assesses foundational knowledge in designing, creating, and querying relational databases using ANSI SQL. Candidates are tested on database design, object management, data retrieval, data manipulation, and troubleshooting. The exam covers various database systems like MySQL, Microsoft SQL Server, and Oracle. [\[CERTPDB\]](#)

598 – Information Technology Specialist: Device Configuration and Management Certification

The Information Technology Specialist: Device Configuration and Management certification validates a candidate's fundamental knowledge and hands-on experience with computer hardware, connections, operation, and management, particularly in a Windows business environment. This certification covers a wide range of skills and competencies, including Windows installation and configuration, user account management, desktop and accessibility settings, and update management. Additionally, it encompasses application and peripheral management, data access and management, and device security. Candidates are expected to understand network connections, application installation, and peripheral device management, as well as basic device security measures. The certification also includes troubleshooting tasks, such as identifying and resolving operating system and application issues, managing device connections to networks and domains, and handling peripheral device connections. [\[CERTPDCM\]](#)

599 – Information Technology Specialist: HTML5 Application Development Certification

The ITS HTML5 Application Development certification is associated with the Information Technology (IT) sector, specifically focusing on web development, design, and software development occupations. [\[CERTPHTML5AD\]](#)

600 – Information Technology Specialist: HTML and CSS Certification

The Information Technology Specialist: HTML and CSS certification validates a range of essential web development skills and competencies. This certification demonstrates proficiency in creating and styling web pages using HTML and CSS, ensuring that candidates can build responsive and visually appealing websites. It covers key areas such as semantic HTML, CSS frameworks like LESS and SASS, and modern web development techniques. Additionally, it includes competencies in consuming RESTful APIs, ensuring front-end interoperability, and adhering to web accessibility standards. This certification is ideal for those looking to establish a strong foundation in web development and enhance their employability in the IT sector. [[CERTPHTMLCSS](#)]

601 – Information Technology Specialist: Java

The Information Technology Specialist: Java exam is designed to validate foundational skills in Java programming. Candidates are tested on their understanding of data types, variables, and expressions, as well as their ability to implement flow control using branching statements and loops. The exam also covers object-oriented programming concepts, code compilation, and debugging. This certification is ideal for individuals looking to demonstrate their proficiency in Java and pursue a career in software development. [[CERTPJA](#)]

602 – Information Technology Specialist: Networking

The Information Technology Specialist: Networking exam is designed to validate essential networking skills. It covers key topics such as TCP/IP, networking services, and network topologies. The exam's objective domains include networking fundamentals, network implementation, network operations, network security, and network troubleshooting. Candidates are evaluated on their ability to troubleshoot both wired and wireless networks, configure network devices, and understand network protocols and standards. This certification is valuable for individuals aiming to showcase their networking expertise and advance their career prospects in the IT industry. [[CERTPNWK](#)]

603 – Information Technology Specialist: Network Security

The Information Technology Specialist: Network Security exam is designed to validate foundational skills in network security, making it ideal for those pursuing a career in cybersecurity. The exam covers essential topics such as security objectives, architecture, and models, as well as risk management and network security policies. Candidates are tested on their understanding of core security principles, including confidentiality, integrity, and availability, along with practical skills in implementing security measures and responding to security incidents. This certification is valuable for individuals looking to demonstrate their expertise in protecting network infrastructures and ensuring data security. [[CERTPNWKS](#)]

604 – Information Technology Specialist: Python

The Information Technology Specialist: Python exam is designed to validate foundational skills in Python programming, making it ideal for those starting a career in software development. The exam covers key areas such as data types and operators, flow control

with decisions and loops, and input/output operations. Candidates are also tested on code documentation and structure, troubleshooting and error handling, and using modules and tools. This certification is valuable for individuals looking to demonstrate their proficiency in Python and enhance their career prospects in the IT industry. [\[CERTPPYT\]](#)

605 – Information Technology Specialist: Software Development

The Information Technology Specialist: Software Development credential validates essential software development skills, including object-oriented programming, web applications, and database management. This certification ensures that candidates possess a comprehensive understanding of core programming concepts, such as constructing and analyzing algorithms, incorporating error handling, and applying functional programming patterns. It also covers key software development principles, including the software development lifecycle, interpreting application specifications, and secure coding practices. [\[CERTPSD\]](#)

606 – Haas Basic Lathe Operator/Mill Operator

The certification will provide basic knowledge necessary to get started as a CNC machine operator or CNC machinist. An introduction to basic CNC machine operation, proper machine safety, and fundamental machining processes. [\[HAASBLOMO\]](#)

607 – NC3/Kubota Tech: Electricity and Electronics Certification

Upon successful completion of this certification students will demonstrate competent performance of basic electrical terminology & circuits used by Kubota. Competencies include: Explain the basic fundamentals of electricity and define units of measurement, define Kubota electrical circuit terminology and wiring diagrams, explain the sources and effects of electricity and explain the application of basic electrical laws, use wiring diagrams to trace electrical/electronic circuits, identify battery type and system configuration, and inspect starter control circuit switches, relays, connectors, terminals, wires, and harnesses. [\[NC3\]](#) [\[KUBTEE\]](#)

608 – NC3/Kubota Tech: Hydraulics Certification

The purpose of this certification is to build an understanding of the hydraulic system and components used on Kubota equipment. Competencies include: Understand safety related to hydraulics, develop a clear understanding of the basics of hydraulic and related components, understand how hydraulic pumps work, removal of hydraulic pumps, disassembling of hydraulic pumps, hydraulic pump testing, installation and testing of control valves and related components, gain an understanding of hydraulic actuators and gain an understanding of fluid contamination and how it can affect the equipment. [\[NC3\]](#) [\[KUBTHY\]](#)

609 – NC3/Kubota Tech: Pre-Delivery Inspection and Assembly Certification

This certification will help students define, demonstrate, build and diagnose electrical circuits based on approved Kubota procedures. The competencies include: Have a clear understanding of the assembly procedures, complete assembly and add-on procedures for the ZD1021, complete assembly and add-on procedures for the B26TLB and complete assembly and add-on procedures for the RTV-X1140. [\[NC3\]](#) [\[KUBTPDIAC\]](#)

610 – NC3/Kubota Tech: Maintenance Procedures Certification

This certification will give students a clean understanding of basic maintenance procedures for Kubota Equipment. Competencies include: safety procedures related to basic maintenance procedures for Kubota Equipment, demonstrate competent performance of Oil & Filter, Fuel Filter Service procedures on Kubota Equipment, Demonstrate competent performance of Lubrication procedures on Kubota Equipment, Demonstrate competent performance of Coolant System procedures on Kubota Equipment, and Inspect engine assembly for fuel, oil, coolant, air, and other leaks. [\[NC3\]](#) [\[KUBTMP\]](#)

611 – Kubota Tech: Powertrain-Brakes, Steering, and Suspension Certification

This certification will help students build an understanding of the components with the RTV X1140, B26TLB and the ZD1021. Competencies include: Understand the components of each piece of equipment that make up the brakes, steering, and suspension, develop a clear understanding of diagnostic procedures that lead to a complete component/system, identify brake performance problems caused by the mechanical/foundation brake system, clean, inspect, lubricate, and/or replace wheel bearings and aces/cups; replace seals and wear rings; inspect spindle/tube; inspect and replace retaining hardware; adjust wheel bearings; check hub assembly fluid level and condition; verify end play with dial indicator method, check steering wheel for free play, binding, and proper centering; inspect and service steering shaft U-joint(s) slip joints(s), bearings, bushings, and seals; phase steering shaft. [\[NC3\]](#) [\[KUBPBSS\]](#)

612 – NC3/Kubota Tech: Powertrain-Transmissions Certification

This certification will help students build an understanding of the mechanical aspects of the powertrain system and components used on Kubota equipment. Competencies include: Understand safety related to hydraulics and the hydrostatic principles of fluid power and movement, inspect and test function of REVERSE light, neutral start, and warning device circuits, check transmission fluid level and condition; determine needed action and develop a clear understanding of the related components of the drivetrain on the RTV X1140, B26TLB and the ZD1021. [\[NC3\]](#) [\[KUBTPT\]](#)

613 – NC3/Kubota Tech: Preventive Maintenance Inspection Certification

This certification will give students a clear understanding of basis Preventative Maintenance Inspections procedures for Kubota Equipment. Competencies include: Safety procedures related to Preventative Maintenance Inspections on Kubota equipment, research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins. [\[NC3\]](#) [\[KUBTPMI\]](#)

614 – Robotics in Manufacturing Fundamentals (RMF) Certification

The Robotics in Manufacturing Fundamentals (RMF) credential focuses on the fundamentals of manufacturing robotics. It provides a starting point for career pathways in the field of robotics. RMF is focused on assessing a candidate's comprehension of fundamental robotics concepts and may be used by those currently looking to upskill or reskill into manufacturing careers before pursuing equipment-specific or career pathway-specific training in robotics. The credential can help individuals begin a lifelong career in an industry where there is opportunity for advancement and good paying jobs. The recognized RMF credential was developed by SME, with two leading organizations in the robotics education area. Robotics Education & Competition (REC) Foundation and FIRST®. [\[SMERMF\]](#)

615 – SACA's C-101 Certified Industry 4.0 Associate 1-Basicc Operations Certification

This certification is an introductory credential that prepares individuals to succeed in modern production environments that use Industry 4.0 controls, automation, and processes. This certification is appropriate for individuals working in any occupation in advanced manufacturing. Basic Operations Competencies tested include: Concepts & Terminology of Smart Manufacturing, Basic Setup, Adjustment & Operation of Automated Machines, Safety and Hand Tools, Blueprint & Schematic Reading, Precision Measurement, Basic Electrical Control, Pneumatic, & Sensor System Operation, Basic Robot Operation & Terminology Production Monitoring via HMI, Internet, Ethernet, & Smart Phones. [\[SACABO\]](#)

616 – S/P2 Heavy-Duty/Diesel Technology Certification*

The S/P2 Heavy-Duty Diesel Technology courses will prepare students to learn about the hazards of the work environment. They can receive on-line training in the areas of welding safety basics to Safety Data Sheets and fire prevention. The training will be offered as a bundle which includes exclusive industry credentials and additional personal and professional development courses. They all must be taken and passed to receive the S/P2 Heavy-Duty/Diesel Technology certification. [\[SP2HDDTC\]](#)

***The bundle includes the following courses and credentials:**

Daimler Trucks: Heavy-Duty Terminology 101
Land that Job! Building a Resume
Land That Job! Interview Skills for Automotive Students
Preparing a Vehicle for Service and Working With Customers
S/P2 Electric Vehicle Safety
S/P2 Heavy-Duty/Diesel Technology Safety (4 hours)

S/P2 Heavy-Duty/Diesel Technology Pollution Prevention
S/P2 Time for a Team Huddle! Running Successful Team Meetings
S/P2 Supervisor's Course
Ethics and You in the Automotive Industry
Valvoline Motor Oil 101, Automotive Fluids 101, Automotive Chemicals 101
WD-40: Cleaning, Storage, and Maintenance of Tools and Equipment

617 – YouScience Industry Certification: Electronics 1 Certification

The first in a sequence of courses that prepares individuals to apply technical knowledge and skills to assemble and operate electrical/electronic equipment used in business, industry, and manufacturing. Instruction includes training in safety, electrical theory, parallel & series circuits, Kirchoff's Laws, schematic diagrams, electrical components, and soldering. [[YOUSCIENCEE1](#)]

618 – NOCTI-JROTC Leadership and Employability Skills Certification

This certification is focused on the core JROTC tenants instilled across all branches of the military. Affiliated JROTC programs are eligible to offer this opportunity to their cadets upon program completion. This assessment measure technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment includes a written component, can be used at the secondary level and can be delivered in an online or paper/pencil format. [[NOCJROTC](#)]

619 – Accredited Legal Professional Certification

The Accredited Legal Professional (ALP) is designed to evaluate the foundational knowledge necessary to succeed in an entry-level legal support position. The certification is awarded after passing the examination. Attaining this goal demonstrates a commitment and aptitude for succeeding in the ever-changing legal environment. The ALP exam demonstrates ability to perform business communication tasks; gauges ability to maintain office records and calendars; measures understanding of office equipment, computer terminology, and related procedures; denotes aptitude for understanding legal terminology, legal complexities, and supporting documents; and appraises knowledge of law office protocol as prescribed by ethical code. [[ALPC](#)]

620 – ESRI Drone2Map

This part of the certification process begins to focus on integrating drone data into 2D and 3D mapping applications. [[LPSESRID2M](#)]

621 – Law and Public Safety Introductory Level Competency Certification

This foundation certification verifies students have mastered introductory knowledge on their path to industry. [[LEILC](#)]

622 – National Basic 9-1-1 Communications Officer

This certification demonstrates students have the basic knowledge, skills, and experience to understand the functional operation of an emergency communications system, and their

role and responsibilities within the emergency communications system. The NECI Basic satisfies Perkins requirements for Industry Recognized Credentials. This certification meets the following national 9-1-1 standards; APCO ANSI National Public Safety 9-1-1 Training Standard; NENA 56-004 – TTY/TDD Call Handling Standard; NENA 56-005 – NENA Call Answering Standard; and NFPA 1061 National Basic 9-1-1 Communications Officer [LPSNB911CO]

623 – National Basic Crime Scene Investigator Certification

This certification exam evaluates students' knowledge on basic crime scene processing, evidence handling, note taking, report writing, interviews, interrogations, constitutional law, investigation process, as well as criminological theories. [LPSNBCSIC]

624 – National Certified Protection Officers Certification

The Certified Protection Officer demonstrates that students understand security and protection officers, and their role and responsibilities within the public safety and criminal justice system. The CPO satisfies Perkins requirements for Industry Recognized Credentials. The CPO certificate is recognized by the U.S. Department of Labor, ASIS International, the Canadian General Standards Board and thousands of American companies. [LECPOC]

625 – National Law Enforcement Certification (NLEC)

The NLEC tests individuals on 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. [LENLEC]

626 – NFPA 2400 Standard for Small Unmanned Aircraft Systems

NFPA 2400 details the minimum requirements for safe operation, deployment, and implementation of sUAS including organization program criteria and considerations, professional qualifications for safety personnel, and elements of a maintenance program. [LPSNPA2400]

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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™. [\[W!SE\]](#)

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 – Deleted]

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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](#)]

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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 the 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 seventeen years old, complete the required hours in an approved secondary program, pass the theory and practical examinations, and pass the physical examination. [\[SCLLRB\]](#)

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 License

The South Carolina Board of Cosmetology (the Board) is responsible for licensing and regulating the profession of an esthetician 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)**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. [\[EVERFI\]](#)

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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 License

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 seventeen 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](#)]

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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 – Deleted]

[A54 – Deleted]

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](#)]

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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](#)]

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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 – Deleted]

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. [\[ICECAREERPREP\]](#)

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 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. [\[SAPCC\]](#)

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 – Deleted]

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 – Deleted]

[A92 – Deleted]

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. [\[MICROBURST\]](#)

Appendix F: Office of Career Readiness Contact Information

Responsibilities	Contact Person
<ul style="list-style-type: none"> CTE Director 	Kayce Cook 803-734-8412 Klcook@ed.sc.gov
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<ul style="list-style-type: none"> Digital Technology 	Andrew Cook 803-734-7168 acook@ed.sc.gov
<ul style="list-style-type: none"> CTE Curriculum Standards Financial Services Management & Entrepreneurship Marketing & Sales Technical Skills Assessments 	Vacant
<ul style="list-style-type: none"> Computer Science Regional Coach Central Region 	Benjamin Dusek 803-734-0420 bwdusek@ed.sc.gov
<ul style="list-style-type: none"> Agriculture Energy & Natural Resources 	Troy Helms 803-320-1064 rthelms@clemson.edu

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<ul style="list-style-type: none"> • Advanced Manufacturing • Arts, Entertainment & Design • Supply Chain & Transportation 	B. T. Martin 803-734-3398 btmartin@ed.sc.gov
<ul style="list-style-type: none"> • Computer Science Regional Coach • South Coast Region 	Vacant
<ul style="list-style-type: none"> • Computer Science K-12 Specialist 	Vacant
<ul style="list-style-type: none"> • Computer Science Regional Coach • Upstate Region 	Sherri Smith 803-734-0962 shlsmith@ed.sc.gov
<ul style="list-style-type: none"> • Advanced Manufacturing • Construction • Government & Public Administration • Public Service and Safety 	Steven Watterson 803-734-8267 swatterson@ed.sc.gov

Responsibilities	Contact Person
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<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"> EEDA “At-Risk” Grant EEDA Monitoring & Accountability 	Tiffany Dorsey 803-734-1650 tldorsey@ed.sc.gov
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<ul style="list-style-type: none"> Data Collection, Analysis, and Reporting 	Vacant 803-734-8450 smlarrym@ed.sc.gov
<ul style="list-style-type: none"> Business and Industry Liaison 	Vacant
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<ul style="list-style-type: none"> LEA Monitoring 	LaPariscena Singleton 803-734-8564 lsingleton@ed.sc.gov

Responsibilities	Contact Person
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<ul style="list-style-type: none"> • SC Pathways Project • CTE Pathways Coordinator 	Jarrod Dubose-Schmitt 803-734-7068 jgduboseschmitt@ed.sc.gov
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