

**2010-2011
Career-Technical Education (CTE)
Secondary Workforce Development Indicators of Performance
Calculation Documentation**



Office of Career-Technical Education

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References are made in this document to the *FY2011 EMIS Manual*, which is available on the Ohio Department of Education Web, www.education.ohio.gov (keyword search *2011 EMIS Manual*).

KEY DEFINITIONS

These are key definitions for Career-Technical Education accountability.

CAREER-TECHNICAL EDUCATION (CTE) DEFINITION

This definition is from the *Carl D. Perkins Career and Technical Education Improvement Act of 2006*:

The term 'career and technical education' means organized educational activities that--

- (A) offer a sequence of courses that--
 - (i) provides individuals with coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions;
 - (ii) provides technical skill proficiency, an industry-recognized credential, a certificate, or an associate degree; and
 - (iii) may include prerequisite courses (other than a remedial course) that meet the requirements of this subparagraph; and
- (B) include competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of an industry, including entrepreneurship, of an individual.

CTE AND TECH PREP COURSES AND PROGRAMS

See *APPENDIX A for the FY2011 CTE Career Field Workforce Development Subject Codes*.

CTE WORKFORCE DEVELOPMENT COURSE:

A CTE state-approved (approved via a CTE-26 application; and EMIS approved) course that was submitted in Yearend (N) EMIS with both of the following:

- **Curriculum Element of VN, VC, VT or VP** (Course Master Record (CN), *Curriculum Element* (CN310))
- One of the CTE Workforce Development **Subject Codes** (Course Master Record (CN), *Subject Code Element* (CN050))

TECH PREP COURSE:

A CTE state-approved (approved via a CTE-26 application; and EMIS approved) course that was submitted in Yearend (N) EMIS with both of the following:

- **Curriculum Element of VT or VP** (Course Master Record (CN), *Curriculum Element* (CN310))
- One of the CTE Workforce Development **Subject Codes** (Course Master Record (CN), *Subject Code Element* (CN050))

CTE WORKFORCE DEVELOPMENT AND TECH PREP PROGRAMS:

The definition of CTE and Tech Prep Programs are embodied in the definition of 'career and technical education' in the *Carl D. Perkins Career and Technical Education Improvement Act of 2006*. [See *Career-Technical Education (CTE Definition)*.]

CTE AND TECH PREP STUDENTS

CTE PARTICIPANT AND TECH PREP PARTICIPANT – DEFINITIONS AND CALCULATIONS

See *APPENDIX A for the FY2011 Career Field, CTE Program and CTE Workforce Development Course Crosswalk*.

CTE PARTICIPANT DEFINITION:

A secondary student who has earned credit in one (1) or more courses in any career and technical education (CTE) workforce development program area.

CTE PARTICIPANT CALCULATION:**From Yearend (N) 2011, EMIS:**

A student must be enrolled in an approved CTE workforce development course (see definition for CTE Workforce Development Course) in the current year;

AND

Student must have a “Y” (Yes) or “P” (Partial/Override) reported for that course in the current year in the **High School Credit Earned** field (Student Course Record (GN), *High School Credit Earned Element* (GN150)).

TECH PREP PARTICIPANT DEFINITION:

A secondary student who has earned credit in one (1) or more Tech Prep courses in any career and technical education (CTE) workforce development program area.

TECH PREP PARTICIPANT CALCULATION:**From Yearend (N) 2011, EMIS:**

A student must be enrolled in an approved Tech Prep course (see definition for Tech Prep Course) in the current year;

AND

Student must have a “Y” (Yes) or “P” (Partial/Override) reported for that course in the current year in the **High School Credit Earned** field (*High School Credit Earned Element* (GN150)).

CTE CONCENTRATOR and TECH PREP CTE CONCENTRATOR – DEFINITIONS AND CALCULATIONS

See *APPENDIX A for the FY2011 Career Field, CTE Program and CTE Workforce Development Course Crosswalk.*

CTE CONCENTRATOR DEFINITION:

A secondary student who completed a minimum of 50% of the high school credits allowed for a single career and technical education (CTE) workforce development program (e.g., health sciences or marketing), and has enrolled for additional credit at the secondary level.

CTE CONCENTRATOR CALCULATION:**From Yearend (N) 2011 EMIS:**

A student must have a value not equal to “***” in the CTE Program of Concentration Field (*CTE Program of Concentration Element* (FN290)) in Yearend (N);

AND

Student must be enrolled in an approved CTE workforce development course (see definition for CTE Workforce Development Course) in the district reporting the *CTE Program of Concentration Element* that is identified as a CTE anchor course (curriculum code VN, VT, VC, VP) for the student’s CTE Program of Concentration.

TECH PREP CTE CONCENTRATOR DEFINITION:

A secondary education student who has enrolled in two courses in the secondary education component of a Tech Prep program.

TECH PREP CTE CONCENTRATOR CALCULATION:

From Yearend (N) 2011 EMIS:

A student must have a value not equal to “***” in the CTE Program of Concentration Field (*CTE Program of Concentration Element* (FN290)) in Yearend (N);

AND

Student must be enrolled in an approved Tech Prep course (Curriculum Element VT or VP; see definition of Tech Prep Course) that is identified as a CTE anchor course for the student’s CTE Program of Concentration.

CTE CONCENTRATOR WHO LEFT SECONDARY EDUCATION and TECH PREP CTE CONCENTRATOR WHO LEFT SECONDARY EDUCATION – DEFINITIONS AND CALCULATIONS

RULES FOR ‘CTE CONCENTRATOR’ TRANSITION FROM *CTE SUBJECT OF CONCENTRATION* TO *CTE PROGRAM OF CONCENTRATION*

The way students are identified in EMIS as CTE Concentrators is different in FY2011 than in previous years.

Student was a CTE Concentrator in FY2011 – Students who reach CTE Concentrator status are reported with one (1) 2-digit *CTE Program of Concentration Element* (FN290) code in Yearend (N).

Student was a CTE Concentrator in FY2010 (or earlier); and was a CTE Concentrator in FY2011 – The FY2011 CTE Program of Concentration data prevails, regardless of whether the CTE Concentrator data reported in a prior year “matches” the CTE Program of Concentration data reported in FY2011.

Student was a CTE Concentrator in FY2010 (or earlier); and was NOT a CTE Concentrator in FY2011 – Prior to FY2011, a student who reached CTE Concentrator status was reported with the *CTE Concentrator Element* (GN130) in one or more CTE workforce development courses in which student was enrolled. Handle this student in this way:

- If student was a CTE Concentrator in only ONE CTE subject code, and that subject code is aligned with a FY2011 CTE Program of Concentration code, use the aligned FY2011 CTE Program code. The CTE Program of Concentration is DERIVED for this student.
- If any other CTE Concentrator status exists for a student, then a CTE Program of Concentration CANNOT be derived for this student. Use the previous year CTE Concentrator subject code. Other CTE Concentrator status might include:
 - Student was a CTE Concentrator in one CTE subject code, and that subject code is NOT aligned with a FY2011 CTE Program of Concentration code (e.g., CTE subject code was deleted in FY2011).
 - Student was a CTE Concentrator in two or more CTE subject codes.

See **APPENDIX A** for the *FY2011 Career Field, CTE Program and CTE Workforce Development Course Crosswalk*.

WHERE STUDENTS COUNT -- CTE (and TECH PREP) CONCENTRATORS WHO LEFT SECONDARY EDUCATION

If a student is reported as a CTE Concentrator by multiple school districts, here are rules about where to count that student:

- **School District Level** – If reported by multiple school districts, then count student in each district that reported the student as a CTE Concentrator, as reported by the school district.
- **CTPD Level** –
 - If reported by multiple school districts within the same CTPD, count only one time in the CTPD; ...
 - If reported by multiple school districts in different CTPDs, then count student in each CTPD, as reported by each respective school district.

- **State Level –**

- If reported by multiple school districts, count only one time in the state.
- Factors for determining where to count students at the state level:
 - 1) If one of the educating districts is also the resident district, count the student in the resident district.
 - 2) If the student is educated by multiple districts within the same CTPD and none of the educating districts are the resident district, BUT all educating districts are reporting the same demographic data, then count the student in the first district (IRN order).
 - 3) If the student is educated by multiple districts within the same CTPD and none of the educating districts are the resident district, AND educating districts are reporting DIFFERENT demographic data, count the student in the district that reports the greatest amount of special population data.
 - 4) If student is educated in districts in two (2) different CTPDs, with none of the educating districts also being the resident district, count the student in the CTPD with which the resident district is associated with.
 - 5) If student is educated in districts in 2 different CTPDs, with none of the educating districts also being the resident district AND where the resident district is NOT in either educating CTPD, count the student in the first district (IRN order).

CTE CONCENTRATOR WHO LEFT SECONDARY EDUCATION DEFINITION:

A secondary student who was reported as a CTE Concentrator while enrolled in high school and who is no longer enrolled in secondary education. For example, this student was reported as a high school graduate or as withdrawn from high school.

NOTE: CTE Concentrator Who Left Secondary Education is calculated differently in the Yearend (N) and Graduate (G) EMIS reporting periods. The Yearend (N) calculation includes Withdrawal data reported in Yearend (N). The Graduate (G) calculation includes Withdrawal data reported in Yearend (N) and Diploma data reported in Graduate (G). The count of CTE Concentrators Who Left Secondary Education can be updated in the Graduate (G) reporting period for two reasons:

- Student will be ADDED to the count of CTE Concentrators Who Left Secondary Education if NOT reported with Withdrawal Reason ‘47’, ‘71’, ‘72’, ‘73’, ‘74’, ‘75’ or ‘99’ in Yearend (N), and reported with a Diploma Date (not equal to zeros) in Graduate (G).
- Student will be DELETED from the count of CTE Concentrators Who Left Secondary Education if reported with Withdrawal Reason ‘99’ in Yearend (N), and NOT reported with a Diploma Date in Graduate (G).

CTE CONCENTRATOR WHO LEFT SECONDARY EDUCATION CALCULATIONS:

YEAREND (N) CALCULATION:

From Yearend (N) 2011, EMIS:

A student must have a value not equal to “**” in the CTE Program of Concentration Field (*CTE Program of Concentration Element* (FN290)) in Yearend (N);

AND

Student must be enrolled in an approved CTE workforce development course (see definition for CTE Workforce Development Course) in the district reporting the *CTE Program of Concentration Element* that is identified as a CTE anchor course (curriculum code VN’ ‘VT’ ‘VC’ ‘VP’) for the student’s CTE Program of Concentration.

See **APPENDIX A for the FY2011 Career Field, CTE Program and CTE Workforce Development Course Crosswalk.**

OR

From Yearend (N) 2009 or Yearend (N) 2010, EMIS:

Student must have a “Y” reported in the **CTE Concentrator** field (*CTE Concentrator Element* (GN130)).

AND

Student must have been enrolled in an approved CTE workforce development course (see definition for CTE Workforce Development Course) the year the student was reported as a CTE Concentrator

AND

From Yearend (N) 2011, EMIS:

The student had a **Date of Withdrawal** (derived from *Effective End Date Element* (FS090)) and a **Withdrawal Reason** (*Withdrawal Reason Element* (FS100)) of one of the following:

- 47 **Withdrew due to Yoder vs. Wisconsin** (Only used for 8th grade students)
- 71 **Withdrew due to truancy/nonattendance**
- 72 **Pursued employment/work permit** (Superintendent approval on file)
- 73 **Over 18 years of age**
- 74 **Moved;** not known to be continuing
- 75 **Student completed course requirements** but did NOT pass the appropriate statewide assessments required for graduation. In the case of a student on an IEP who has been excused from the individual consequences of the statewide assessments, using this code indicates that the student completed course requirements but did not take the appropriate statewide assessments required for graduation.
- 99 **Completed high school graduation requirements**

Returning Withdrawal – If a student is reported as withdrawn in October (K), but is reported as enrolled in Yearend (N), student is NOT counted as withdrawn.

JVSDs and Contract CTE – If JVSD or Contract CTE reports Withdrawal Reason ‘41’ (Transferred to Another Ohio School District), then Withdrawal Reason reported by resident district will be used.

GRADUATE (G) CALCULATION:

From Yearend (N) 2011, EMIS:

A student must have a value not equal to “**” in the CTE Program of Concentration Field (*CTE Program of Concentration Element* (FN290)) in Yearend (N);

AND

Student must be enrolled in an approved CTE workforce development course (see definition for CTE Workforce Development Course) in the district reporting the *CTE Program of Concentration Element* that is identified as a CTE anchor course (curriculum code ‘VN’ ‘VT’ ‘VC’ ‘VP’) for the student’s CTE Program of Concentration.

OR

From Yearend (N) 2009 or Yearend (N) 2010, EMIS:

Student must have a “Y” reported in the **CTE Concentrator** field (*CTE Concentrator Element* (GN130)).

AND

Student must have been enrolled in an approved CTE workforce development course (see definition for CTE Workforce Development Course) the year the student was reported as a CTE Concentrator

AND ONE OF THE FOLLOWING:

From Yearend (N) 2011, EMIS:

The student had a **Date of Withdrawal** (derived from *Effective End Date Element (FS090)*) and a **Withdrawal Reason** (*Withdrawal Reason Element (FS100)*) of one of the following:

- 47 **Withdrew due to Yoder vs. Wisconsin** (Only used for 8th grade students)
- 71 **Withdrew due to truancy/nonattendance**
- 72 **Pursued employment/work permit** (Superintendent approval on file)
- 73 **Over 18 years of age**
- 74 **Moved**; not known to be continuing
- 75 **Student completed course requirements** but did NOT pass the appropriate statewide assessments required for graduation. In the case of a student on an IEP who has been excused from the individual consequences of the statewide assessments, using this code indicates that the student completed course requirements but did not take the appropriate statewide assessments required for graduation.

Returning Withdrawal – If a student is reported as withdrawn in October (K), but is reported as enrolled in Yearend (N), student is NOT counted as withdrawn.

OR

From Graduate (G) 2011, EMIS:

The student had a **Diploma Date** (*Diploma Date Element (FN090)*) not equal to zeroes.

JVSDs and Contract CTE – JVSDs and Contract CTE do not report Diploma Date, so Diploma Date reported by resident district is used.

Prior Year Contract CTE and JVSD CTE Concentrators and “Home School District”:

- In the current year, if prior year Contract CTE or JVSD CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by the prior year “home school district”, then student is counted as a CTE Concentrator Who Left Secondary Education in current year.
- In the current year, if prior year Contract CTE or JVSD CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by a district other than the prior year “home school district”, then student is NOT counted as a CTE Concentrator Who Left Secondary Education in the current year.

Prior Year JVSD CTE Concentrators and “received from” Community School:

- In the current year, if prior year JVSD CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by the prior year “received from” community school, then student is counted as a CTE Concentrator Who Left Secondary Education in current year.
- In current year, if prior year JVSD CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by a district or school other than the prior year “received from” community school, then student is NOT counted as a CTE Concentrator Who Left Secondary Education in current year.

TECH PREP CTE CONCENTRATOR WHO LEFT SECONDARY EDUCATION DEFINITION:

A secondary education student who has enrolled in two courses in the secondary education component of a Tech Prep program and who is no longer enrolled in secondary education. For example, this student was reported as a high school graduate or as withdrawn from high school.

NOTE: Secondary Tech Prep CTE Concentrator Who Left Secondary Education is calculated differently in the Yearend (N) and Graduate (G) EMIS reporting periods. The Yearend (N) calculation includes Withdrawal data reported in Yearend (N). The Graduate (G) calculation includes Withdrawal data reported in Yearend (N) and Diploma data reported in Graduate (G). The count of Secondary Tech Prep CTE Concentrators Who Left Secondary Education can be updated in the Graduate (G) reporting period for two reasons:

- Student will be ADDED to the count of Secondary Tech Prep CTE Concentrators Who Left Secondary Education if NOT reported with Withdrawal Reason ‘47’, ‘71’, ‘72’, ‘73’, ‘74’, ‘75’ or ‘99’ in Yearend (N), and reported with a Diploma Date (not equal to zeros) in Graduate (G).

- Student will be DELETED from the count of Secondary Tech Prep CTE Concentrators Who Left Secondary Education if reported with Withdrawal Reason ‘99’ in Yearend (N), and NOT reported with a Diploma Date in Graduate (G).

**TECH PREP CTE CONCENTRATOR WHO LEFT SECONDARY EDUCATION CALCULATIONS:
YEAREND (N) CALCULATION:**

From Yearend (N) 2011, EMIS:

A student must have a value not equal to “***” in the CTE Program of Concentration Field (*CTE Program of Concentration Element* (FN290)) in Yearend (N);

AND

Student must be enrolled in an approved Tech Prep course (see definition of Tech Prep Course) that is identified as a CTE anchor course (curriculum code ‘VT’ ‘VP’) for the student’s CTE Program of Concentration.

OR

From Yearend (N) 2009 or Yearend (N) 2010, EMIS:

Student must have a “Y” reported in the **CTE Concentrator** field (*CTE Concentrator Element* (GN130)).

AND

Student must have been enrolled in an approved Tech Prep course (see definition of Tech Prep Course) the year the student was reported as a CTE Concentrator.

AND

From Yearend (N) 2011, EMIS:

The student had a **Date of Withdrawal** (derived from *Effective End Date Element* (FS090)) and a **Withdrawal Reason** (*Withdrawal Reason Element* (FS100)) of one of the following:

- 47 **Withdrew due to Yoder vs. Wisconsin** (Only used for 8th grade students)
- 71 **Withdrew due to truancy/nonattendance**
- 72 **Pursued employment/work permit** (Superintendent approval on file)
- 73 **Over 18 years of age**
- 74 **Moved;** not known to be continuing
- 75 **Student completed course requirements** but did NOT pass the appropriate statewide assessments required for graduation. In the case of a student on an IEP who has been excused from the individual consequences of the statewide assessments, using this code indicates that the student completed course requirements but did not take the appropriate statewide assessments required for graduation.
- 99 **Completed high school graduation requirements**

Returning Withdrawal – If a student is reported as withdrawn in October (K), but is reported as enrolled in Yearend (N), student is NOT counted as withdrawn.

JVSDs and Contract CTE – If JVSD or Contract CTE reports Withdrawal Reason ‘41’ (Transferred to Another Ohio School District), then Withdrawal Reason reported by resident district will be used.

GRADUATE (G) CALCULATION:

From Yearend (N) 2011, EMIS:

A student must have a value not equal to “***” in the CTE Program of Concentration Field (*CTE Program of Concentration Element* (FN290)) in Yearend (N);

AND

Student must be enrolled in an approved Tech Prep course (see definition of Tech Prep Course) that is identified as a CTE anchor course (curriculum code ‘VT’ ‘VP’) for the student’s CTE Program of Concentration.

OR

From Yearend (N) 2009 or Yearend (N) 2010, EMIS:

Student must have a “Y” reported in the **CTE Concentrator** field (*CTE Concentrator Element* (GN130)).

AND

Student must have been enrolled in an approved Tech Prep course (see definition of Tech Prep Course) the year the student was reported as a CTE Concentrator

AND ONE OF THE FOLLOWING:

From Yearend (N) 2011, EMIS:

The student had a **Date of Withdrawal** (derived from *Effective End Date Element* (FS090)) and a **Withdrawal Reason** (*Withdrawal Reason Element* (FS100)) of one of the following:

- 47 **Withdrew due to Yoder vs. Wisconsin** (Only used for 8th grade students)
- 71 **Withdrew due to truancy/nonattendance**
- 72 **Pursued employment/work permit** (Superintendent approval on file)
- 73 **Over 18 years of age**
- 74 **Moved;** not known to be continuing
- 75 **Student completed course requirements** but did NOT pass the appropriate statewide assessments required for graduation. In the case of a student on an IEP who has been excused from the individual consequences of the statewide assessments, using this code indicates that the student completed course requirements but did not take the appropriate statewide assessments required for graduation.

Returning Withdrawal – If a student is reported as withdrawn in October (K), but is reported as enrolled in Yearend (N), student is NOT counted as withdrawn.

OR

From Graduate (G) 2011, EMIS:

The student had a **Diploma Date** (*Diploma Date Element* (FN090)) not equal to zeroes.

JVSDs and Contract CTE – JVSDs and Contract CTE do not report Diploma Date, so Diploma Date reported by resident district will be used.

Prior Year Contract CTE and JVSD Tech Prep CTE Concentrators and “Home School District”:

- In the current year, if prior year Contract CTE or JVSD Tech Prep CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by the prior year “home school district”, then student is counted as a Tech Prep CTE Concentrator Who Left Secondary Education in current year.
- In the current year, if prior year Contract CTE or JVSD Tech Prep CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by a district other than the prior year “home school district”, then student is NOT counted as a Tech Prep CTE Concentrator Who Left Secondary Education in the current year.

Prior Year JVSD Tech Prep CTE Concentrators and “received from” Community School:

- In the current year, if prior year JVSD Tech Prep CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by the prior year “received from” community school, then student is counted as a Tech Prep CTE Concentrator Who Left Secondary Education in current year.
- In current year, if prior year JVSD Tech Prep CTE Concentrator has a withdrawal reason of 47, 71, 72, 73, 74 or 75, or a diploma date not equal to zeros reported by a district or school other than the prior year “received from” community school, then student is NOT counted as a Tech Prep CTE Concentrator Who Left Secondary Education in current year.

TECH PREP “SECONDARY COMPLETER”

TECH PREP “SECONDARY COMPLETER” Definition: A Tech Prep CTE Concentrator who successfully completes the secondary education component of a Tech Prep program.

From Yearend (N) 2011, EMIS:

A student must be a Tech Prep CTE Concentrator;

AND

Student must have a value of “Y” in the Tech Prep Completer Field (*Tech Prep Completer Element (FN280)*) in Yearend (N).

The Tech Prep “Secondary Completer” qualifies to become a Postsecondary Tech Prep Student. The criteria for successful completion of the secondary education component of a Tech Prep program are:

- ~~Complete the secondary part of the Program of Study.~~
 - ~~Earning a proficient level defined minimally as a “C” or better in technical coursework that includes the approved Ohio Career Field Technical Content Standards; and~~
 - ~~Meeting Ohio graduation requirements.~~
- ~~Complete coursework eligible for articulated credit as determined by the postsecondary institution and defined in the signed articulation agreement. Minimum standard for eligibility is a “C.” [NOTE: A postsecondary institution may have a higher minimum course grade standard for a student to actually earn articulated credit. However, if a student earns a “C” or better, the student has met the standard for this criterion.]~~
- ~~Complete applicable technical assessments.~~
 - ~~Successfully pass applicable Ohio Technical Competency Assessment; and/or~~
 - ~~A state recognized industry assessment.~~
- ~~Complete a postsecondary approved assessment indicating the student is college ready in English and mathematics. ACT/SAT or COMPASS/Accuplacer may be considered as an indicator for college placement. These scores reflect a minimum benchmark of readiness for the first college level course in English or mathematics. The ACT/COMPASS benchmarks are:~~
 - ~~English~~
 - ~~ACT of 18 or higher (or an equivalent SAT)~~
 - ~~COMPASS of 69 or higher~~
 - ~~Mathematics~~
 - ~~ACT of 22 or higher for Algebra (or an equivalent SAT)~~
 - ~~COMPASS of 65 or higher~~

In May 2011, the criteria for successful completion of the secondary component of a Tech Prep program changed to:

- **Obtains a high school diploma**

FY2011 CTE SECONDARY WORKFORCE DEVELOPMENT STUDENT COUNTS

RULES FOR COUNTING CTE PARTICIPANTS AND CTE CONCENTRATORS AT SCHOOL DISTRICT, CTPD AND STATE LEVELS

Student counts are unduplicated at the school district level, CTPD level, and State level.

State reports:

School District Level – Student is counted one time in each school district that reports the student.

CTPD Level – Student is counted one time in each CTPD in which student is reported as a CTE Participant or CTE Concentrator.

State Level – Student is counted only one time. Disaggregated student data reported by the accountable CTPD is used for the disaggregated counts (e.g., race/ethnicity, economic disadvantage).

Federal reporting:

CTPD Level – Student is counted in only one CTPD, per these rules:

(Need help from Erica)

State Level – Student is counted only one time. Disaggregated student data reported by the accountable CTPD is used for the disaggregated counts (e.g., race/ethnicity, economic disadvantage).

FY2011 CTE STUDENT COUNTS

Total CTE Participants (unduplicated)

Total number of students determined to be CTE Participants. If a student is a CTE Participant in more than one CTE workforce development course, the student is counted only one time.

Total CTE Concentrators (unduplicated)

Total number of students determined to be CTE Concentrators. If a student is determined to be a CTE Concentrator in more than one CTE workforce development course (prior to FY2011), the student is counted only one time.

Total CTE Concentrators Who Left Secondary Education (unduplicated)

Total number of students determined to be CTE Concentrators Who Left Secondary Education. If a student is determined to be a CTE Concentrator in more than one CTE workforce development course (prior to FY2011), the student is counted only one time.

FY2011 TECH PREP STUDENT COUNTS

Total Tech Prep Participants (unduplicated)

Total number of students determined to be Tech Prep Participants. If a student is a Tech Prep Participant in more than one Tech Prep course, the student is counted only one time.

Total Tech Prep CTE Concentrators (unduplicated)

Total number of students determined to be Tech Prep CTE Concentrators. If a student is determined to be a Tech Prep CTE Concentrator in more than one Tech Prep course (prior to FY2011), the student is counted only one time.

Total Tech Prep CTE Concentrators Who Left Secondary Education (unduplicated)

Total number of students determined to be Tech Prep CTE Concentrators Who Left Secondary Education. If a student is determined to be a Tech Prep CTE Concentrator Who Left Secondary Education in more than one Tech Prep course (prior to FY2011), the student is counted only one time.

Total Tech Prep “Secondary Completers” (unduplicated)

Total number of students determined to be Tech Prep “Secondary Completers.”

The FY2011 CTE Performance Reports will display FY2010 and FY2011 student counts.

FY2011 CTE SECONDARY WORKFORCE DEVELOPMENT INDICATORS OF PERFORMANCE

ACADEMIC ATTAINMENT—READING/LANGUAGE ARTS (1S1)

FY2011 ACCOUNTABILITY – FINAL in FY2011 GRADUATE (G).

Definition: Percentage of CTE Concentrators who left secondary education and who scored at or above the proficient level on the Ohio Graduation Reading Test by the 12th Grade March Administration. (Highest Ohio Graduation Reading Test score reported in Grades 10 – 12).

Numerator: Number of CTE Concentrators who left secondary education and who scored at or above the proficient level on the Standard Ohio Graduation Reading Test and the Alternate Ohio Graduation Reading Test (Required Test Type = “STR” and “ALT”).

Denominator: Number of CTE Concentrators who left secondary education and who took the Standard or Alternate Ohio Graduation Reading Test (Required Test Type = “STR” and Scaled Score NOT = “****” **AND** Required Test Type = “ALT” and Raw Score NOT = “****” (“****” means that the student did not take the test)). Includes students with Scaled Score or Raw Score = “INV” (Invalidated) or “NSA” (Non-Scorable Assessment) **AND** all students with disabilities regardless of whether they took the test with accommodations. Excludes LEP students coded as enrolled in US schools for the first time on or after the first day of school of the current year; students with LEP Status Element = “L”.

Ohio Graduation Tests Data (Ohio Graduation Test Record (GX))

Ohio Graduation Tests (OGT) data reported in any Yearend (N) EMIS Processing; and in 2011 Graduate (G):

Test Grade Level (*Test Grade Level Element (GX200)*) – “10” is the valid reporting option

Subject of the test (*Subject Element (GX205)*):

R Reading

Required Test Type (*Required Test Type Element (GX215)*) is ONE of the following:

STR Standard (regular)

ALT Alternate Assessment (Standards-based alternate assessment) as required by IEP

STR Test Type – Scaled Score (*Scaled Score Element (GX230)*):

Reading - Score of **400** or greater

ALT Test Type – Raw Score (*Raw Score Element (GX240)*):

Reading – Score of **120** or greater

ACADEMIC ATTAINMENT—MATHEMATICS (1S2)

FY2011 ACCOUNTABILITY – FINAL in FY2011 GRADUATE (G).

Definition: Percentage of CTE Concentrators who left secondary education and who scored at or above the proficient level on the Ohio Graduation Mathematics Test by the 12th Grade March Administration. (Highest Ohio Graduation Mathematics Test score reported in Grades 10 – 12).

Numerator: Number of CTE Concentrators who left secondary education and who scored at or above the proficient level on the Standard Ohio Graduation Mathematics Test and the Alternate Ohio Graduation Mathematics Test (Required Test Type = “STR” and “ALT”).

Denominator: Number of CTE Concentrators who left secondary education and who took the Standard or Alternate Ohio Graduation Mathematics Test (Required Test Type = “STR” and Scaled Score NOT = “***” AND Required Test Type = “ALT” and Raw Score NOT = “***” (“***” means that the student did not take the test)). Includes students with Scaled Score or Raw Score = “INV” (Invalidated) or “NSA” (Non-Scorable Assessment) AND all students with disabilities regardless of whether they took the test with accommodations. Excludes LEP students coded as enrolled in US schools for the first time on or after the first day of school of the current year; students with LEP Status Element = “L”.

Ohio Graduation Tests Data (Ohio Graduation Test Record (GX))

Ohio Graduation Tests (OGT) data reported in any Yearend (N) EMIS Processing; and in 2011 Graduate (G):

Test Grade Level (*Test Grade Level Element (GX200)*) – “10” is the valid reporting option

Subject of the test (*Subject Element (GX205)*)

M Mathematics

Required Test Type (*Required Test Type Element (GX215)*) is ONE of the following:

STR Standard (regular)

ALT Alternate Assessment (Standards-based alternate assessment) as required by IEP

STR Test Type – Scaled Score (*Scaled Score Element (GX230)*):

Mathematics - Score of **400** or greater

ALT Test Type – Raw Score (*Raw Score Element (GX240)*):

Mathematics – Score of **120** or greater

ACADEMIC ATTAINMENT—SCIENCE (SCI)

FY2010 RESULTS – FINAL in FY2011 GRADUATE (G).

Academic Attainment—Science is informational only, and is NOT a CTE indicator of performance. This data will be reported to the U.S. Department of Education.

Definition: Percentage of CTE Concentrators who left secondary education and who scored at or above the proficient level on the Ohio Graduation Science Test by the 12th Grade March Administration. (Highest Ohio Graduation Science Test score reported in Grades 10 – 12).

Numerator: Number of CTE Concentrators who left secondary education and who scored at or above the proficient level on the Standard Ohio Graduation Science Test and the Alternate Ohio Graduation Science Test (Required Test Type = “STR” and “ALT”).

Denominator: Number of CTE Concentrators who left secondary education and who took the Standard or Alternate Ohio Graduation Science Test (Required Test Type = “STR” and Scaled Score NOT = “***” AND Required Test Type = “ALT” and Raw Score NOT = “***” (“***” means that the student did not take the test)). Includes students with Scaled Score or Raw Score = “INV” (Invalidated) or “NSA” (Non-Scorable Assessment) AND all students with disabilities regardless of whether they took the test with accommodations. Excludes LEP students coded as enrolled in US schools for the first time on or after the first day of school of the current year; students with LEP Status Element = “L”.

Ohio Graduation Tests Data (Ohio Graduation Test Record (GX))

Ohio Graduation Tests (OGT) data reported in any Yearend (N) EMIS Processing; and in 2011 Graduate (G):

Test Grade Level (*Test Grade Level Element (GX200)*) – “10” is the valid reporting option

Subject of the test (*Subject Element (GX205)*)

S Science

Required Test Type (*Required Test Type Element (GX215)*) is ONE of the following:

STR Standard (regular)

ALT Alternate Assessment (Standards-based alternate assessment) as required by IEP

STR Test Type – Scaled Score (*Scaled Score Element (GX230)*):

Science - Score of **400** or greater

ALT Test Type – Raw Score (*Raw Score Element (GX240)*):

Science – Score of **120** or greater

TECHNICAL SKILL ATTAINMENT (2S1)

FY2011 ACCOUNTABILITY – FINAL in FY2011 MARCH (D):

CTE Technical Assessment and CTE Industry Assessment Yearend (N) data from current or any previous year; and CTE Industry Assessment data from 2011 March (D).

AND

FY2012 ACCOUNTABILITY – PRELIMINARY in FY2011 YEAREND (N) and FY2011 GRADUATE (G):

CTE Technical Assessment and CTE Industry Assessment Yearend (N) data from current or any previous year.

Definition: Percent of CTE Concentrators who left secondary education in the previous year and who passed a CTE technical skill assessment or a state-recognized CTE industry assessment

Numerator: Number of CTE Concentrators who left secondary education in the previous year and who passed a CTE technical skill assessment or a state-recognized CTE industry assessment.

Denominator: Number of CTE Concentrators who left secondary education in the previous year and who took a CTE technical skill assessment or a state-recognized CTE industry assessment.

From Yearend (N) EMIS:

EMIS Manual 2.4.10 CTE Student Assessment Record (GY)

- *CTE Technical Assessment Code Element (GY760)*
 - CTE Technical Assessment must align with the CTE program or subject code in which student is reported as a CTE Concentrator.
 - A student reported with an “aligned” CTE Technical Assessment Code is included in the denominator.
 - If a student is reported as a CTE Concentrator in more than one CTE course (different subject codes), the CTE Technical Assessment can align with any of the subject codes in which the student is a CTE Concentrator.
- *CTE Technical Assessment Score Element (GY770)*
 - A student whose test scores \geq benchmark score passed the assessment and is included in the numerator.

See **APPENDIX B** for the **FY2011/FY2010/FY2009 CTE Technical Assessment Lists**.

From Yearend (N) and 2011 March (D) EMIS:

EMIS Manual 2.4.11 Student CTE Industry Assessment Record (GU)

- *CTE Industry Assessment Code Element (GU060)*
 - CTE Industry Assessment must align with the CTE program or subject code in which student is reported as a CTE Concentrator.
 - A student reported with an “aligned” CTE Industry Assessment Code is included in the denominator.
 - If a student is reported as a CTE Concentrator in more than one CTE course (different subject codes), the CTE Industry Assessment can align with any of the subject codes in which the student is a CTE Concentrator.
- *CTE Industry Assessment Results Element (GU070)*
 - A student reported with a “P” (Student passed the CTE Industry Assessment) passed the assessment and is included in the numerator.

See *APPENDIX C* for the *FY2010/FY2011 CTE Industry Assessment Options Lists*.

NOTE: CTE Industry Assessment reported must be valid for the most recent year student reported as a CTE Concentrator.

To determine 2S1 status for a student who is reported with more than one technical assessment that aligns with the CTE program or subject code in which the student is reported as a CTE Concentrator:

- Two (or more) CTE Technical Assessments – In the denominator, student is counted one time. In the numerator, student is counted as *passing* if the score on one or more of the assessments \geq benchmark score.
- Two (or more) CTE Industry Assessments – In the denominator, student is counted one time. In the numerator, student is counted as *passing* if the student passed one or more of the CTE Industry Assessments.
- One CTE Technical Assessment and one CTE Industry Assessment – In the denominator, student is counted one time. In the numerator, student is counted as *passing* if the score of the CTE Technical Assessment \geq benchmark score **OR** the student passed the CTE Industry Assessment.

To determine 2S1 CTE Nontraditional Enrollee subgroup status for a student who is reported as a CTE Concentrator in two (or more) CTE programs:

- If both (all) CTE programs are nontraditional programs for that student, student is counted in the CTE Nontraditional Enrollee subgroup.
- If both (all) CTE programs are NOT nontraditional programs for that student, student is NOT counted in the CTE Nontraditional Enrollee subgroup.
- If only one (of two or more) of the CTE programs is nontraditional for that student:
 - If assessment results are reported for the student in a CTE program that is nontraditional for that student, student is counted in the CTE Nontraditional Enrollee subgroup.
 - If assessment results are NOT reported for the student in a CTE program that is nontraditional for that student, student is NOT counted in the CTE Nontraditional Enrollee subgroup.

SECONDARY SCHOOL COMPLETION (3S1)

FY2011 ACCOUNTABILITY – FINAL in FY2011 MARCH (D) – Diploma data reported in FY2010 Graduate (G) reporting period; and GED data reported FY2011 March (D).

AND

FY2012 ACCOUNTABILITY – PRELIMINARY in FY2011 GRADUATE (G) – Diploma data reported in FY2011 Graduate (G) reporting period.

Definition: The percentage of CTE Concentrators who left secondary education the previous year who received a diploma during the school year or a General Equivalency Diploma (GED). NOTE: This is one-year lag data.

Numerator: Number CTE Concentrators who left secondary education the previous year who had a Diploma Date (Student Attributes Record – No Date Record (FN), *Diploma Date Element* (FN090)) not equal to zeroes reported in Graduate (G); or earned a General Equivalency Diploma (GED) (CTE Workforce

Development Follow-Up Record (GV), *Diploma Element* (GV630) Earned a GED Diploma (G) reported in March (D).

Denominator: The number of CTE Concentrators who left secondary education the previous year who were not reported as Deceased (D)¹ or were reported as Incorrectly reported as a CTE Concentrator (X) (CTE Workforce Development Follow-Up Record (GV) *Other Follow-Up Status Element* (GV660)) in March (D).

¹ Student reported as Deceased (D) and not reported as either Earned a GED Diploma (G) or Diploma Reported in a Prior Reporting Period (D) (Chapter 2, 2.10 CTE Workforce Development Follow-Up Record (GV) *Diploma Element* (GV630)).

NOTE: Also calculate separately for these two (2) sub-indicators. A student shall be counted in only one sub-indicator.

- (1) **Diploma**
- (2) **General Equivalency Diploma (GED)**

STUDENT GRADUATION RATES (4S1)

FY2012 ACCOUNTABILITY – FINAL in FY2011 GRADUATE (G) – Diploma data reported in FY2011 Graduate (G) reporting period.

Definition: Percentage of CTE Concentrators who left secondary education the previous year who earned a diploma during the school year. NOTE: This is one-year lag data.

Numerator: Number CTE Concentrators who left secondary education the previous year and who had a Diploma Date (Student Attributes Record – No Date Record (FN), *Diploma Date Element* (FN090)) not equal to zeroes.

Denominator: Number of CTE Concentrators who left secondary education the previous year.

NOTE: FY2011 Accountability was final in the FY2010 Graduate (G) reporting period.

SECONDARY PLACEMENT (5S1)

FY2011 ACCOUNTABILITY – FINAL in FY2011 MARCH (D).

Secondary Placement (5S1) is based on CTE Concentrators who left secondary education the previous year who responded to a survey several months after leaving school regarding their placement status.

Definition: The percent of status-known CTE Concentrators who left secondary education the previous year and were enrolled in postsecondary education or advanced training, in the military service or employed.

Numerator: The number of status-known CTE Concentrators who left secondary education the previous year and, in the second (2nd) quarter following the program year in which they left secondary education, were enrolled in postsecondary education or advanced training, in the military service or employed (CTE Workforce Development Follow-Up Record (GV), *Apprenticeship Element* (GV620), *Employed Placement Element* (GV640), *Military Placement Element* (GV650) and *Postsecondary Education or Advanced Training Element* (GV670)).

Denominator: The number of CTE Concentrators who left secondary education the previous year who were not reported as Status Unknown (U), Deceased (D)², or Incorrectly reported as a CTE Concentrator (X)

(CTE Workforce Development Follow-Up Record (GV) *Other Follow-Up Status Element* (GV660)) in March (D).

² Student reported as Deceased (D) and not reported as Y1 or Y2 for the *Apprenticeship Element*, *Employed Placement Element*, *Military Placement Element*, *Postsecondary Education or Advanced Training Element* (CTE Workforce Development Follow-Up Record (GV)).

NOTE: All students NOT reported in March (D) as *Status Unknown* (U), *Deceased* (D) or *Incorrectly Reported as a CTE Concentrator* (X) are included in the calculation.

NOTE: Also calculate separately for these four (4) sub-indicators. A student may be counted in more than one sub-indicator.

- (1) **Apprenticeship**
- (2) **Employed**
- (3) **Military Placement**
- (4) **Postsecondary Education or Advanced Training**

EMIS Manual 2.9 CTE Workforce Development Follow-Up Record (GV)

From 2011 March (D):

Any CTE Concentrator who leaves secondary education who is reported with an *Other Follow-Up Status Element* (GV660) option of U, D, or X will be removed from the denominator

Students are in the numerator if reported with one or more of the following options:

Apprenticeship Element (GV620)

- Y1** Yes, in an apprenticeship program related to CTE Program
- Y2** Yes, in an apprenticeship program not related to CTE Program

Employed Placement Element (GV640)

- Y1** Yes, employed in an occupation related to CTE Program
- Y2** Yes, employed in an occupation not related to CTE Program

Military Placement Element (GV650)

- Y1** Yes, in the military in an area related to CTE Program
- Y2** Yes, in the military in an area not related to CTE Program

Postsecondary Education or Advanced Training Element (GV670)

- Y1** Yes, in postsecondary education or advanced training related to CTE Program
- Y2** Yes, in postsecondary education or advanced training not related to CTE Program

NONTRADITIONAL PARTICIPATION (6S1)

FY2011 ACCOUNTABILITY – FINAL in FY2011 YEAREND (N).

Definition: The percentage of CTE Participants from underrepresented gender groups who participated in a CTE course that leads to employment in nontraditional fields.

Numerator: Number of CTE Participants from underrepresented gender groups who, in the reporting year, participated in a CTE course that leads to employment in nontraditional fields.

Denominator: Number of CTE Participants who, in the reporting year, participated in a CTE course that leads to employment in nontraditional fields.

From 2011 Yearend (N), EMIS:

This measure is based on the CTE WFD courses in which a student was a CTE Participant. The calculation is based on the number of nontraditional CTE Participants in CTE WFD courses designated as nontraditional for males or females.

See *APPENDIX E* for the list of *FY2011 Nontraditional CTE Subjects*.

Calculation of Nontraditional Participation

Numerator: Female CTE Participants in Female nontraditional CTE courses + Male CTE Participants in Male nontraditional CTE courses

Denominator: Total CTE Participants in Female and Male nontraditional CTE courses

Note: In the current year, a student must be a CTE Participant in a nontraditional CTE courses to be included in the current year Nontraditional Participation calculation.

NONTRADITIONAL COMPLETION (6S2)

FY2011 ACCOUNTABILITY – FINAL in FY2011 GRADUATE (G).

Definition: The percentage of CTE Concentrators from underrepresented gender groups who completed a CTE Program that leads to employment in nontraditional fields.

Numerator: Number of CTE Concentrators from underrepresented gender groups who, in the reporting year, completed a CTE Program that leads to employment in nontraditional fields.

Denominator: Number of CTE Concentrators who, in the reporting year, completed a CTE Program that leads to employment in nontraditional fields.

From 2011 Yearend (N) and 2011 Graduate (G), EMIS:

This measure is based on the CTE Programs in which a student was a CTE Concentrator who graduated. The calculation is based on the number of nontraditional CTE Concentrators in CTE Programs designated as nontraditional for males or females who graduated from high school (students had a **Diploma Date** (*Diploma Date Element* (FN090)) not equal to zeroes).

See *APPENDIX F* for the list of *FY2011 Nontraditional CTE Programs* (for CTE Concentrators who have a reported or derived CTE Program of Concentration code); **and**

See *APPENDIX E* for the list of *FY2011 Nontraditional CTE Subjects* (for CTE Concentrators who have no reported or derived CTE Program of Concentration code).

Calculation of Nontraditional Completion:

Numerator: Female CTE Concentrators in Female nontraditional CTE Programs who graduated from high school + Male CTE Concentrators in Male nontraditional CTE Programs who graduated from high school

Denominator: Total CTE Concentrators in Female and Male nontraditional CTE Programs who graduated from high school

SECONDARY TECH PREP AND CTE STATE QUALITY INDICATORS OF PERFORMANCE

STATE OR INDUSTRY-RECOGNIZED CERTIFICATE OR LICENSE (1STP3 for Tech Prep; and State Quality Indicator 1 for CTE)

FY2011 ACCOUNTABILITY – FINAL in FY2011 MARCH (D).

Two calculations are needed for this indicator: (1) Tech Prep CTE Concentrators who left secondary education; and (2) CTE Concentrators who left secondary education.

TECH PREP:

Definition: The percentage of secondary Tech Prep CTE Concentrators who left secondary education the previous year, and who obtained a State or industry-recognized certificate or license.

Numerator: Number of secondary Tech Prep CTE Concentrators who left secondary education the previous year and obtained a State or industry-recognized certificate or license.

Denominator: Number of secondary Tech Prep CTE Concentrators who left secondary education the previous year.

NOTE: All students NOT reported in March (D) as *Status Unknown (U)*, *Deceased (D)* or *Incorrectly Reported as a CTE Concentrator (X)* are included in the calculation.

From 2011 March (D), EMIS:

For Tech Prep, this measure is based on the Tech Prep programs (Curriculum Element 'VT' 'VP') in which a student is reported as a CTE Concentrator. Students are reported with a 'Y' (Yes) in **Student Earned Certificate/License** (CTE Workforce Development Follow-Up Record (GV), *Student Earned Certificate/License Element* (GV680)).

CTE:

Definition: The percentage of CTE Concentrators who left secondary education the previous year, and who obtained a State or industry-recognized certificate or license.

Numerator: Number of CTE Concentrators who left secondary education the previous year and obtained a State or industry-recognized certificate or license.

Denominator: Number of CTE Concentrators who left secondary education the previous year.

NOTE: All students NOT reported in March (D) as *Status Unknown (U)*, *Deceased (D)* or *Incorrectly Reported as a CTE Concentrator (X)* are included in the calculation.

From 2011 March (D), EMIS:

For CTE, this measure is based on CTE Career Field Workforce Development anchor courses (Curriculum Element 'VN' 'VC' 'VT' 'VP') in which a student is reported as a CTE Concentrator. Students are reported with a 'Y' (Yes) in **Student Earned Certificate/License** (CTE Workforce Development Follow-Up Record (GV), *Student Earned Certificate/License Element* (GV680)).

COMPLETION OF COURSE AWARDING POSTSECONDARY CREDIT (1STP4 for Tech Prep; and State Quality Indicator 2 for CTE)

FY2011 ACCOUNTABILITY – FINAL in FY2011 GRADUATE (G).

Two calculations are needed for this indicator: (1) Tech Prep CTE Concentrators who left secondary education; and (2) CTE Concentrators who left secondary education.

TECH PREP:

Definition: The percentage of secondary Tech Prep CTE Concentrators who left secondary education in the reporting year, and who successfully completed a course that awarded postsecondary credit for secondary students.

Numerator: Number of secondary Tech Prep CTE Concentrators who left secondary education in the reporting year, and who successfully completed a course that awarded postsecondary credit for secondary students.

Denominator: Number of secondary Tech Prep CTE Concentrators who left secondary education in the reporting year.

From 2011 Yearend (N), EMIS:

To calculate the secondary Tech Prep CTE Concentrators who left secondary education and who successfully completed a course that awarded postsecondary credit for secondary students (Numerator):

Student must have been enrolled in one of the following courses, in current or previous year (FY2010), in any school district that educated the student:

CTE courses that qualify for Postsecondary Credit

- CTE Workforce Development courses (Curriculum Elements ‘VN’ ‘VC’ ‘V3’ ‘VT’ ‘VP’); and
- CTE Course reported as ‘Y’ (Yes) for the *CTE College Credit Element* (CN300) on the Course Master Record (CN).

Academic courses that qualify for Postsecondary Credit

- Career-Technical Education (CTE) Applied Academic Advanced Placement (Curriculum Element ‘VB’)
- Advanced Placement (AP) (Curriculum Element ‘AP’) in FY2011
- Advanced Placement (AP) courses in FY2010, including these subject codes:
129926, 029100, 029110, 029120, 029130, 059920, 059930, 069910, 069912, 069914, 069915, 069916, 069918, 069920, 069922, 069925, 069930, 069935, 119550, 119930, 119960, 139903, 139905, 139940, 139950, 139906, 139930, 152500, 152600, 152700, 152810, 152820, 159950, 159960, 159930, 159940, 290310, 290320
- International Baccalaureate (IB) courses – subject codes 32xxxx
- Postsecondary Enrollment Option courses (Curriculum Element ‘PS’)
- Postsecondary Instructor (Curriculum Element ‘PI’)

AND

Student must have a “Y” (Yes) or “P” (Partial/Override) reported for that course in the **High School Credit Earned** field (Student Course Record (GN), *High School Credit Earned Element* (GN150)).

Also calculate separately for each of the two (2) sub-indicators:

- CTE courses
- Academic courses

A student may be counted in one or both of the sub-indicators.

EXAMPLE: Tech Prep CTE Concentrator is enrolled in and earns high school credit in a CTE Workforce Development Course that qualifies for college credit; and an Advanced Placement (AP) course. The student is counted:

- One time in the overall calculation; and
- One time in the calculation for CTE courses; and
- One time in the calculation for academic courses.

CTE:

Definition: The percentage of CTE Concentrators who left secondary education in the reporting year, and who successfully completed a course that awarded postsecondary credit for secondary students.

Numerator: Number of CTE Concentrators who left secondary education in the reporting year, and who successfully completed a course that awarded postsecondary credit for secondary students.

Denominator: Number of CTE Concentrators who left secondary education in the reporting year.

From 2011 Yearend (N), EMIS:

To calculate the CTE Concentrators who left secondary education and who successfully completed a course that awarded postsecondary credit for secondary students (Numerator):

Student must have been enrolled in one of the following courses, in current or previous year (FY2010), in any school district that educated the student:

CTE courses that qualify for Postsecondary Credit

- CTE Workforce Development courses (Curriculum Elements ‘VN’ ‘VC’ ‘V3’ ‘VT’ ‘VP’); and
- CTE Course reported as ‘Y’ (Yes) for the *CTE College Credit Element* (CN300) on the Course Master Record (CN).

Academic courses that qualify for Postsecondary Credit

- Career-Technical Education (CTE) Applied Academic Advanced Placement (Curriculum Element ‘VB’)
- Advanced Placement (AP) (Curriculum Element ‘AP’) in FY2011
- Advanced Placement (AP) courses in FY2010, including these subject codes:
129926, 029100, 029110, 029120, 029130, 059920, 059930, 069910, 069912, 069914, 069915, 069916, 069918, 069920, 069922, 069925, 069930, 069935, 119550, 119930, 119960, 139903, 139905, 139940, 139950, 139906, 139930, 152500, 152600, 152700, 152810, 152820, 159950, 159960, 159930, 159940, 290310, 290320
- International Baccalaureate (IB) courses – subject codes 32xxxx
- Postsecondary Enrollment Option courses (Curriculum Element ‘PS’)
- Postsecondary Instructor (Curriculum Element ‘PI’)

AND

Student must have a “Y” (Yes) or “P” (Partial/Override) reported for that course in the **High School Credit Earned** field (Student Course Record (GN), *High School Credit Earned Element* (GN150)).

Also calculate separately for each of the two (2) sub-indicators:

- CTE courses
- Academic courses

A student may be counted in one or both of the sub-indicators.

EXAMPLE: CTE Concentrator is enrolled in and earns high school credit in a CTE Workforce Development Course and an Advanced Placement (AP) course. The student is counted:

- One time in the overall calculation; and
- One time in the calculation for CTE courses; and

- One time in the calculation for academic courses.

PLACEMENT STATUS KNOWN

FY2011 RESULTS – FINAL in FY2011 MARCH (D).

‘Placement Status Known’ is the percentage of CTE Concentrators who left secondary education the previous year for which the school district is able to obtain placement data, via a few reliable means:

- Follow-up survey response, several months after leaving school, for placement status;
- National Student Clearinghouse (NSC) for postsecondary enrollment data; and
- State Web sites for State licensing and certification data.

Placement Status Known is not a CTE indicator of performance, but provides an indication of the reliability of the Secondary Placement (5S1) performance results. Generally, the higher rate of placement status known, the more reliable the Secondary Placement (5S1) performance results.

Definition: The percentage of placement status-known CTE Concentrators who left secondary education the previous year.

Numerator: The number of CTE Concentrators who left secondary education the previous year who were not reported as Status Unknown (U) (CTE Workforce Development Follow-Up Record (GV), *Other Follow-Up Status Element* (GV660)) in March (D).

Denominator: The number of CTE Concentrators who left secondary education the previous year who were not reported as Incorrectly reported as a CTE Concentrator (X) (CTE Workforce Development Follow Up Record (GV), *Other Follow-Up Status Element* (GV660)) in March (D).

From 2011 March (D):

This measure is based on CTE Concentrators who left secondary education the previous year who were not reported with an *Other Follow-Up Status Element* (GV660) option of ‘Incorrectly reported as a CTE Concentrator’ (X) in the CTE Workforce Development Follow-Up Record (GV).

CTE SECONDARY WORKFORCE DEVELOPMENT DATA BY STUDENT SUBGROUPS

FY2011 STUDENT SUBGROUP PERFORMANCE RATES

Performance rates for each indicator of performance are disaggregated for each required student subgroup. If a student is reported in two different ways for any CTE special population subgroup (individuals with disabilities, economically disadvantaged, single parents, limited English proficient, migrant status, nontraditional CTE enrollee, secondary Tech Prep CTE Concentrators), then count the student as in the special population subgroup.

The FY2011 indicators of performance are:

- High School Academic Achievement Standard—Reading/Language Arts (1S1)
- High School Academic Achievement Standard—Mathematics (1S2)
- Technical Skill Attainment (2S1)
- Secondary School Completion (3S1)
- Student Graduation Rates (4S1)
- Secondary Placement (5S1)
- Nontraditional Participation (6S1)
- Nontraditional Completion (6S2)
- Industry-Recognized Certificate/License (1STP3; and State Quality Indicator 1)
- Passed Course that Awarded Postsecondary Credit (1STP4; and State Quality Indicator 2)

Performance results are calculated for each of these student subgroups:

Student Subgroups	1S1 ¹	1S2 ¹	SCI ¹	2S1 ²	3S1 ²	4S1 ²	5S1 ²	6S1 ³	6S2 ¹	1STP3 ^{2,4}	1STP4 ^{1,5}
Male	X	X	X	X	X	X	X	X	X	X	X
Female	X	X	X	X	X	X	X	X	X	X	X
American Indian or Alaskan Native	X	X	X	X	X	X	X	X	X	X	X
Asian	X	X	X	X	X	X	X	X	X	X	X
Black or African American (not Hispanic)	X	X	X	X	X	X	X	X	X	X	X
Hispanic/Latino	X	X	X	X	X	X	X	X	X	X	X
Native Hawaiian or Other Pacific Islander	X	X	X	--	--	--	--	X	X	--	X
White	X	X	X	X	X	X	X	X	X	X	X
Multiracial	X	X	X	X	X	X	X	X	X	X	X
Individuals with Disabilities	X	X	X	X	X	X	X	X	X	X	X
Economically Disadvantaged	X	X	X	X	X	X	X	X	X	X	X
Single Parents	X	X	X	X	X	X	X	X	X	X	X
Limited English Proficient	X	X	X	X	X	X	X	X	X	X	X
Migrant Status	X	X	X	X	X	X	X	X	X	X	X
CTE Nontraditional Enrollees ⁶	X	X	X	X	X	X	X	--	--	X	X
Secondary Tech Prep CTE Concentrators	X	X	X	X	X	X	X	X	X	--	--

¹ CTE Concentrators Who Left Secondary Education the reporting (current) year.

² CTE Concentrators Who Left Secondary Education the previous year.

³ CTE Participants in the reporting (current) year.

⁴ Secondary Tech Prep CTE Concentrators Who Left Secondary Education the previous year.

⁵ Secondary Tech Prep CTE Concentrators Who Left Secondary Education the reporting (current) year.

⁶ CTE Nontraditional Enrollee student subgroup – Student is a CTE Concentrator Who Left Secondary Education in the current year and was a Nontraditional Participant (in the numerator of 6S1, Nontraditional Participation) in the current or previous years.

NOTE about student subgroup data and CTE Concentrators Who Left Secondary Education: If a student was a CTE Concentrator Who Left Secondary Education in the current year, but was not a CTE Concentrator in the current year, the demographic and program code data used is what was reported in the most recent year the student was a CTE Concentrator.

See *Appendix G* for *FY2011 CTE Nontraditional Enrollees (Student Subgroup)*.

FY2011 CTE STUDENT SUBGROUP COUNTS

Unduplicated total and CTE student subgroup counts are calculated for:

- CTE Participants
- CTE Concentrators
- CTE Concentrators Who Left Secondary Education
- Secondary Tech Prep Participants
- Secondary Tech Prep CTE Concentrators
- Secondary Tech Prep CTE Concentrators Who Left Secondary Education

The student subgroups are:

- Male
- Female
- American Indian or Alaskan Native
- Asian
- Black or African-American (Non-Hispanic)
- Hispanic/Latino
- Native Hawaiian or Other Pacific Islander
- White
- Multiracial
- Individuals with Disabilities
- Economically Disadvantaged
- Single Parents
- Limited English Proficient
- Migrant Status
- CTE Nontraditional Enrollees

2010-2011 PERKINS CONSOLIDATED ANNUAL REPORT (CAR) and EDEN/EDFacts REPORTING

Secondary CTE data must be reported to the U. S. Department of Education by December 31, 2011 in the Perkins Consolidated Annual Report (CAR) and in the EDEN/EDFacts data reporting system.

2010-2011 CAR STUDENT ENROLLMENT FORMS

Unduplicated count of **Secondary CTE Participants** and **Secondary Tech Prep CTE Concentrators** in each student subgroup:

- Male
- Female
- American Indian or Alaskan Native
- Asian
- Black or African-American (Non-Hispanic)
- Hispanic/Latino
- Native Hawaiian or Other Pacific Islander
- White
- Multiracial
- Individuals with Disabilities – Individuals with Disabilities Education Act (IDEA)
- Economically Disadvantaged
- Single Parents
- Limited English Proficient
- Migrant Status
- CTE Nontraditional Enrollees

Unduplicated count of **Male** and **Female Secondary CTE Concentrators** in each of the 16 career fields:

- Agricultural & Environmental Systems (01)
- Arts & Communication (02)
- Business & Administrative Services (03)
- Construction Technologies (04)
- Education & Training (05)
- Engineering & Science Technologies (06)
- Finance (07)
- Government and Public Administration (08)
- Health Science (09)
- Hospitality & Tourism (10)
- Human Services (11)
- Information Technology (12)
- Law & Public Safety (13)
- Manufacturing Technologies (14)
- Marketing (15)
- Transportation Systems (16)

See *APPENDIX A, FY2011 Career Field, CTE Program and CTE Workforce Development Course Crosswalks.*

2010-2011 CAR/EDEN-EDFacts STUDENT ACCOUNTABILITY FORMS

Data for all secondary CTE indicators of performance, except Placement (5S1), is officially reported to the U.S. Department of Education via the EDEN/EDFacts data system. However, the Office of Career-Technical Education will continue to complete the data fields in the CAR accountability forms for ODE records.

Unduplicated count of CTE students in the Numerator and Denominator in each student subgroup, and of Secondary Tech Prep CTE Concentrators, for each secondary core indicator of performance:

Academic Attainment—Reading/language arts (1S1)

Academic Attainment—Mathematics (1S2)

Technical Skill Attainment (2S1)

Secondary School Completion (3S1)

- And two (2) sub-indicators (Diploma, GED)

Student Graduation Rates (4S1)

Secondary Placement (5S1)

- And three (3) sub-indicators (Employment, Military, Postsecondary Education & Advanced Training)

Nontraditional Participation (6S1)

Nontraditional Completion (6S2)

2010-2011 CAR TECH PREP ACCOUNTABILITY FORMS

Unduplicated count of Secondary Tech Prep CTE Concentrators in the numerator and denominator of two (2) secondary Tech Prep indicators of performance:

- (1) Industry-Recognized Certificate/License (1STP3)
- (2) Passed Course that Awarded Postsecondary Credit (1STP4)

NOTE:

The Ohio Board of Regents reports the unduplicated count of Secondary Tech Prep CTE Concentrators in the numerator and denominator of three (3) secondary Tech Prep indicators of performance:

- (1) Postsecondary Enrollment (1STP1)
- (2) Postsecondary Enrollment in the Same Field (1STP2)
- (3) Enrollment in Postsecondary Remedial Course (1STP5)

AND

Unduplicated count of Postsecondary Tech Prep CTE Concentrators in the numerator and denominator of four (4) postsecondary Tech Prep indicators of performance:

- (1) Employment in Related Field (1PTP1)
- (2) State or Industry-Recognized Certificate or License (1PTP2)
- (3) On-Time Completion of Two-Year Degree or Certificate Program (1PTP3)
- (4) On-Time Completion of Baccalaureate Degree Program (1PTP4)

APPENDIX A

FY2011 Career Field, CTE Program and CTE Workforce Development Course Crosswalks

For each CTE career field, this crosswalk lists all CTE programs and the CTE workforce development anchor courses that comprise each CTE program. Students may be CTE Concentrators if enrolled in pathway courses (PC) and specialization courses (SC). Students CANNOT be CTE Concentrators if enrolled only in foundation courses (FC) or career field courses (CC).

These CTE courses are career field courses (CC), pathway courses (PC) or specialization courses (SC).			
CTE Program	CTE Program Code	CTE Workforce Development Subject Names	CTE Workforce Development Subject Codes
Ohio Career Field name: Agricultural and Environmental Systems (01)			
States' Career Clusters Initiative name: Agriculture, Food and Natural Resources			
Agribusiness and Production Systems	A0	Environmental and Agricultural Science (CC)	010001*
		Plant and Horticultural Science (PC)	010155
		Agribusiness and Production Systems (PC)	010301
		Animal Bioscience (PC)	010150
		Greenhouse and Nursery Management (PC)	010610 [NEW in FY2011]
		Landscape Systems Management (PC)	010615 [NEW in FY2011]
		Agronomic Systems (PC)	010620 [NEW in FY2011]
		Floral Design and Marketing (PC)	010625 [NEW in FY2011]
		Landscape Design and Build (PC)	010630 [NEW in FY2011]
		Turf Science and Management (PC)	010635 [NEW in FY2011]
Agricultural and Industrial Power Technology	A1	Environmental and Agricultural Science (CC)	010001*
		Agricultural and Industrial Equipment (PC)	010201
Animal Science and Management	A2	Environmental and Agricultural Science (CC)	010001*
		Animal Science and Management (PC)	010901
Biotechnology for Food, Plant and Animal	A3	Environmental and Agricultural Science (CC)	010001*
		Animal Bioscience (PC)	010150
		Biotechnology for Food, Plant and Animal Sciences (PC)	012000
Food Science and Technology	A4	Environmental and Agricultural Science (CC)	010001*
		Food Science and Technology (PC)	011001
Horticulture	A5	Environmental and Agricultural Science (CC)	010001*
		Plant and Horticultural Science (PC)	010155
		Horticulture (PC)	010601
		Greenhouse and Nursery Management (PC)	010610 [NEW in FY2011]
		Landscape Systems Management (PC)	010615 [NEW in FY2011]
		Floral Design and Marketing (PC)	010625 [NEW in FY2011]
		Landscape Design and Build (PC)	010630 [NEW in FY2011]
		Turf Science and Management (PC)	010635 [NEW in FY2011]
Natural Resource Management	A6	Environmental and Agricultural Science (CC)	010001*
		Natural Resource Management (PC)	010701
Ohio Career Field name: Arts and Communication (02)			
States' Career Clusters Initiative name: Arts, A/V Technology and Communications			
Media Arts	B0	Arts and Communication Foundation (FC)	040001*
		Principles of Arts and Communications (CC)	340010*
		Media Arts (PC)	340015
Performing Arts	B1	Arts and Communication Foundation (FC)	040001*
		Principles of Arts and Communications (CC)	340010*
		Performing Arts (PC)	340020

Visual Design and Imaging	B2	Arts and Communication Foundation (FC)	040001*
		Principles of Arts and Communications (CC)	340010*
		Visual Design and Imaging (PC)	340005
Ohio Career Field name: Business and Administrative Services (03)			
States' Career Clusters Initiative name: Business Management and Administration			
Administrative and Professional Support	C0	Introduction to Marketing (CC)	040805*
		Business and Management Foundations (FC)	140001* ²
		Finance Career Field Course (CC)	140025*
		Introduction to Business and Administrative Services (CC)	140050* ²
		Administrative and Professional Support (PC)	140300
Business Management	C1	Introduction to Marketing (CC)	040805*
		Business and Management Foundations (FC)	140001* ²
		Finance Career Field Course (CC)	140025*
		Introduction to Business and Administrative Services (CC)	140050* ²
		Business Management (PC)	140800
Legal Management and Support	C2	Introduction to Marketing (CC)	040805*
		Business and Management Foundations (FC)	140001* ²
		Finance Career Field Course (CC)	140025*
		Introduction to Business and Administrative Services (CC)	140050* ²
		Legal Management and Support (PC)	140310
Medical Management and Support	C3	Introduction to Marketing (CC)	040805*
		Business and Management Foundations (FC)	140001* ²
		Finance Career Field Course (CC)	140025*
		Introduction to Business and Administrative Services (CC)	140050* ²
		Medical Management and Support (PC)	140320
Ohio Career Field name: Construction Technologies (04)			
States' Career Clusters Initiative name: Architecture and Construction			
Brick, Block and Cement Masonry	D0	Construction Technologies (CC)	170005*
		Brick, Block & Cement Masonry (SC)	171004
Building and Property Maintenance	D1	Construction Technologies (CC)	170005*
		Building and Property Maintenance (SC)	171011
Building Technology	D2	Construction Technologies (CC)	170005*
		Building Technology (SC)	171017
Carpentry	D3	Construction Technologies (CC)	170005*
		Carpentry (SC)	171001
Construction Design—Build	D4	Construction Technologies (CC)	170005*
		Construction – Design-Build (PC)	171805
Construction Design—Management	D5	Construction Technologies (CC)	170005*
		Construction – Management (PC)	171806
Custodial Services	D6	Construction Technologies (CC)	170005*
		Custodial Services (SC)	171100
Electrical Trade	D7	Construction Technologies (CC)	170005*
		Electrical Trades (SC)	171002
Environmental Control Technologies	D8	Construction Technologies (CC)	170005*
		Environmental Control Technologies (SC)	170100
Heavy Equipment Operations (Construction)	D9	Construction Technologies (CC)	170005*
		Heavy Equipment Operations (Construction) (SC)	171003
Interior Design Applications	DA	Construction Technologies (CC)	170005*
		Interior Design Applications (SC)	171005
Plumbing and Pipefitting	DB	Construction Technologies (CC)	170005*
		Plumbing and Pipefitting (SC)	171007
Wood Product Technologies	DC	Construction Technologies (CC)	170005*
		Wood Product Technologies (SC)	173601
Ohio Career Field name: Education and Training (05)			
States' Career Clusters Initiative name: Education and Training			
Early Childhood Education	E0	Introduction to Education and Training (CC)	350001*
		Early Childhood Education (PC)	350201
Teaching Professions	E1	Introduction to Education and Training (CC)	350001*
		Teaching Professions (PC)	350011
Ohio Career Field name: Engineering and Science Technologies (06)			
States' Career Clusters Initiative name: Science, Technology, Engineering and Mathematics			
Biomedical Science	F0	Biomedical Science (PC)	175000
Energy Science	F1	Engineering Systems (CC)	170007*
		Energy Science (SC)	171600
Engineering Science	F2	Engineering Science (PC) (3 classes – Introduction to Engineering, Principals of Engineering and Digital Design)	171815

		Computer Integrated Manufacturing (SC)	171816
		Civil Engineering and Architecture (SC)	171817
		Fuel Cell Technologies (SC)	171818
		Materials Joining Technologies (SC)	171819
		Biotechnical Engineering (SC)	171820
		Computational Science and Engineering (SC)	171821
		Engineering Design and Development (PC)	171825
Engineering Technology	F3	Engineering Systems (CC)	170007*
		Engineering Technology (PC)	171810
Power Transmissions	F4	Engineering Systems (CC)	170007*
		Power Transmission (SC)	171402
Telecommunications	F5	Engineering Systems (CC)	170007*
		Telecommunications (SC)	171504
Ohio Career Field name: Finance (07)			
States' Career Clusters Initiative name: Finance			
Accounting	G0	Introduction to Marketing (CC)	040805*
		Business and Management Foundations (FC)	140001*
		Finance Career Field Course (CC)	140025* ²
		Introduction to Business and Administrative Services (CC)	140050*
		Accounting (PC)	140100
Financial Services	G1	Introduction to Marketing (CC)	040805*
		Business and Management Foundations (FC)	140001*
		Finance Career Field Course (CC)	140025* ²
		Introduction to Business and Administrative Services (CC)	140050*
		Financial Services (PC)	140110
Ohio Career Field name: Government and Public Administration (08)			
States' Career Clusters Initiative name: Government and Public Administration			
Government and Public Administration	H0	Government and Public Administration (PC)	360230
Ohio Career Field name: Health Science (09)			
States' Career Clusters Initiative name: Health Science			
Biotechnology	J0	Health Science (CC)	070005*
		Biotechnology (SC)	074850
Clinical Health Care Services	J1	Health Science (CC)	070005*
		Clinical Health Care Services (PC)	071100
Community Health Aide	J2	Health Science (CC)	070005*
		Community Health Aide (SC)	070906
Dental Assistant	J3	Health Science (CC)	070005*
		Dental Assistant (SC)	070101
Dental Lab Technology	J4	Health Science (CC)	070005*
		Dental Laboratory Technology (SC)	070103
Diagnostic Pathway	J5	Health Science (CC)	070005*
		Diagnostic Pathway (SC)	074820
Exercise Science/Sports & Recreation Healthcare	J6	Health Science (CC)	070005*
		Exercise Science/Sports & Recreation Healthcare (SC)	070410
Health Information Management Services	J7	Health Science (CC)	070005*
		Health Information Management Services (PC)	074890
Health Support Pathway	J8	Health Science (CC)	070005*
		Health Support Pathway (PC)	074840
Health Unit Coordinator	J9	Health Science (CC)	070005*
		Health Unit Coordinator (SC)	070913
Home Health	JA	Health Science (CC)	070005*
		Home Health (SC)	070307
Medical Assistant	JB	Health Science (CC)	070005*
		Medical Assistant (SC)	070904
Medical Lab Technology	JC	Health Science (CC)	070005*
		Medical Laboratory Technology (SC)	070203
Nurse Assisting	JD	Health Science (CC)	070005*
		Nurse Assisting (SC)	070303
Optometric Occupations	JE	Health Science (CC)	070005*
		Optometric Occupations (SC)	070603
Patient Care Technician	JF	Health Science (CC)	070005*
		Patient Care Technician (SC)	070994
Pharmacy Technician	JG	Health Science (CC)	070005*
		Pharmacy Technician (SC)	070912
Phlebotomy	JH	Health Science (CC)	070005*
		Phlebotomy (SC)	070204
Practical Nursing	JJ	Health Science (CC)	070005*

		Practical Nursing (SC)	070302
Surgical Technology	JK	Health Science (CC)	070005*
		Surgical Technology (SC)	070305
Therapeutic Pathway	JL	Health Science (CC)	070005*
		Therapeutic Pathway (SC)	074830
Ohio Career Field name: Hospitality and Tourism (10)			
States' Career Clusters Initiative name: Hospitality and Tourism			
Culinary and Food Service Occupations	L0	Culinary and Food Service Operations (PC)	330005
		Introduction to Hospitality and Tourism (CC)	330015*
Lodging	L1	Lodging (PC)	330010
		Introduction to Hospitality and Tourism (CC)	330015*
Travel and Tourism	L2	Travel and Tourism (PC)	330020
		Introduction to Hospitality and Tourism (CC)	330015*
Ohio Career Field name: Human Services (11)			
States' Career Clusters Initiative name: Human Services			
Barbering	M0	Human Services (CC)	172600*
		Barbering (SC)	172601
Cosmetology	M1	Human Services (CC)	172600*
		Cosmetology (SC)	172602
Family and Community Services	M2	Human Services (CC)	172600*
		Family and Community Services (PC)	172605
Vocational Job Training	M3	Vocational Job Training Coordinating	990371
Ohio Career Field name: Information Technology (12)			
States' Career Clusters Initiative name: Information Technology			
Information Support and Services	N0	Information Technology I (CC)	140200*
		Information Support and Services (PC)	140210
Interactive Media	N1	Information Technology I (CC)	140200*
		Interactive Media (PC)	140240
Network Systems	N2	Information Technology I (CC)	140200*
		Network Systems (PC)	140220
Programming and Software Development	N3	Information Technology I (CC)	140200*
		Programming and Software Development (PC)	140230
Ohio Career Field name: Law and Public Safety (13)			
States' Career Clusters Initiative name: Law, Public Safety, Corrections and Security			
Career Paths for the Law Profession	P0	Career Paths for the Law Profession (PC)	172810
Criminal Justice	P1	Criminal Justice (SC)	172802
		Public Safety Core	172812*
Criminal Science Technologies	P2	Criminal Science Technologies (SC)	172815
		Public Safety Core	172812*
Emergency Medical Technician—Secondary	P3	Emergency Medical Technician – Secondary (SC)	172811
		Public Safety – Core (CC)	172812*
Firefighter Training	P4	Fire Fighter Training (SC)	172801
		Public Safety – Core (CC)	172812*
Private Security	P5	Private Security (SC)	172808
		Public Safety – Core (CC)	172812*
Ohio Career Field name: Manufacturing Technologies (14)			
States' Career Clusters Initiative name: Manufacturing			
Automation and Robotics	R0	Manufacturing Technologies (CC)	170006*
		Automation and Robotics (SC)	170370
Electronics	R1	Manufacturing Technologies (CC)	170006*
		Electronics (SC)	171503
Integrated Systems Technologies	R2	Manufacturing Technologies (CC)	170006*
		Integrated Systems Technology (SC)	171012
		Manufacturing Operations (PC)	170360
Manufacturing Design and Development	R3	Manufacturing Technologies (CC)	170006*
		Manufacturing Design and Development (PC)	171300
Manufacturing Occupations	R4	Manufacturing Technologies (CC)	170006*
		Manufacturing Occupations (SC)	172303
Precision Machining	R5	Manufacturing Technologies (CC)	170006*
		Precision Machining (SC)	172302
Welding and Cutting	R6	Manufacturing Technologies (CC)	170006*
		Welding and Cutting (SC)	172306
Ohio Career Field name: Marketing (15)			
States' Career Clusters Initiative name: Marketing			
Acquisition and Logistics	S0	Introduction to Marketing (CC)	040805* ²
		Acquisition and Logistics (PC)	041900
		Business and Management Foundations (FC)	140001*

		Finance Career Field Course (CC)	140025*
Entrepreneurship	S1	Introduction to Business and Administrative Services (CC)	140050*
		Introduction to Marketing (CC)	040805* ²
		Introduction to Entrepreneurship (PC)	044100
		Business and Management Foundations (FC)	140001*
		Entrepreneurship (PC)	044110
		Finance Career Field Course (CC)	140025*
High School of Business	S2	Introduction to Business and Administrative Services (CC)	140050*
		Leadership (PC)	042010 [NEW in FY2011]
		Wealth Management (PC)	042015 [NEW in FY2011]
		Principles of Business (PC)	042020 [NEW in FY2011]
		Principles of Economics (PC)	042025 [NEW in FY2011]
		Principles of Marketing (PC)	042030 [NEW in FY2011]
		Principles of Finance (PC)	042035 [NEW in FY2011]
		Principles of Management (PC)	042040 [NEW in FY2011]
Marketing Communications	S3	Business Strategies (PC)	042045 [NEW in FY2011]
		Introduction to Marketing (CC)	040805* ²
		Marketing Communications (PC)	040815
		Business and Management Foundations (FC)	140001*
Marketing Management	S4	Finance Career Field Course (CC)	140025*
		Introduction to Business and Administrative Services (CC)	140050*
		Introduction to Marketing (CC)	040805* ²
		Business and Management Foundations (FC)	140001*
		Marketing Management (PC)	040810
		Finance Career Field Course (CC)	140025*
		Introduction to Business and Administrative Services (CC)	140050*
Ohio Career Field name: Transportation Systems (16)			
States' Career Clusters Initiative name: Transportation, Distribution and Logistics			
Aircraft Maintenance	T0	Transportation Systems (CC)	170350*
		Aviation Occupations (SC)	170400
		Aircraft Maintenance (SC)	170401
Auto Collision Repair	T1	Auto Collision Repair (SC)	170301
		Transportation Systems (CC)	170350*
Auto Specialization	T2	Auto Specialization (SC)	170303
		Transportation Systems (CC)	170350*
Auto Technology	T3	Auto Technology (SC)	170302
		Transportation Systems (CC)	170350*
Aviation Occupations	T4	Transportation Systems (CC)	170350*
		Aviation Occupations (SC)	170400
Ground Operations	T5	Transportation Systems (CC)	170350*
		Aviation Occupations (SC)	170400
		Ground Operations (SC)	170403
Maritime Occupations	T6	Transportation Systems (CC)	170350*
		Maritime Occupations (SC)	170801 [Added Back in FY2011]
Medium/Heavy Truck Technician	T7	Transportation Systems (CC)	170350*
		Medium/Heavy Truck Technician (SC)	171200
Power Equipment Technology	T8	Transportation Systems (CC)	170350*
		Power Equipment Technology (SC)	173100

* For CTE accountability purposes, a student enrolled in only a foundation course (FC) or career field course (CC) CANNOT be reported as a CTE Concentrator. Students may be reported as CTE Concentrators only if enrolled in a pathway course (PC) or a specialization course (SC).

APPENDIX B

**FY2011/FY2010/FY2009 CTE Technical Assessment
and
Workforce Development Course–CTE Program List**

Results of these state assessments are used in the calculation of Technical Skill Attainment (2S1). A CTE Concentrator Who Left Secondary Education in FY2011 may have had CTE technical assessment results reported in FY2009, FY2010 or FY2011.

CTE Program Code	Subject Code	Subject Name	CTE Technical Assessment Code (2.5.8 CTE Student Assessment Record (GY))	CTE Technical Assessment Name	FY2011 Bench-mark	FY2010 Bench-mark	FY2009 Bench-mark
A1	010201	Agricultural and Industrial Equipment	05DA	Agricultural/Industrial Mechanical Technician	66	66	66
A0	010301	Agribusiness and Production Systems	03DA	Agricultural Production Core	43	43	43
A0	010301	Agribusiness Production Systems	03DB	Agricultural Production Core and Beef and Sheep Production	51	51	51
A0	010301	Agribusiness Production Systems	03DC	Agricultural Production Core and Dairy Production	50	50	50
A0	010301	Agribusiness and Production Systems	03DD	Agricultural Production Core and Poultry Production	50	50	50
A0	010301	Agribusiness and Production Systems	03DE	Agricultural Production Core and Swine Production	47	47	47
A5	010601	Horticulture	53DA	Horticulture Core and Floriculture and Greenhouse Worker	65	65	65
A5	010601	Horticulture	53DB	Horticulture Core and Turf and Landscape Worker	65	65	65
A5	010601	Horticulture	53DC	Horticulture Core and Nursery and Garden Worker	71	71	71
A6	010701	Natural Resource Management	39DA	Natural Resources and Forest Industry Worker	71	71	71
A6	010701	Natural Resource Management	39DB	Natural Resources and Resource Conservation	70	70	70
A2	010901	Animal Science and Management	08DA	Animal Management Technician	67	67	67
A4	011001	Food Science and Technology	46DA	Meat Processor	56	56	56
n/a	040115 <i>[Eliminated in FY2011]</i>	Entertainment Marketing <i>[Eliminated in FY2011]</i>	30FA	Entertainment Marketing	n/a	50	50
S4	040810	Marketing Management	36MC	Marketing Management	59	59	59
n/a	040830 <i>[Eliminated in FY2011]</i>	Marketing Technology <i>[Eliminated in FY2011]</i>	36EA	Marketing Technology	n/a	50	50
n/a	040830 <i>[Eliminated in FY2011]</i>	Marketing Technology <i>[Eliminated in FY2011]</i>	36MB <i>[Eliminated in FY2010]</i>	Marketing Technology <i>[Not used in FY2010 calculations]</i>	n/a	n/a	50
L2	041118 <i>[Eliminated in FY2011]</i>	Hospitality and Tourism <i>[Eliminated in FY2011]</i>	41DA	Travel and Tourism Marketing	n/a	58	58
J3	070101	Dental Assistant	23EA	Dental Assistant	62	62	62
J3	070101	Dental Assistant	23MA	Dental Assistant	60	60	60
JB	070904	Medical Assistant	47FA	Medical Assistant	72	72	72
n/a	070998 <i>(Eliminated in FY2011)</i>	Diversified Health Occupations (DHO) <i>(Eliminated in FY2011)</i>	25HA	Diversified Health Occupations	n/a	68	68
E0	090201	Early Childhood Education and	16FA	Early Childhood Education and Care	n/a	70	70

	<i>[Eliminated in FY2011]</i>	Care <i>[Eliminated in FY2011]</i>					
L0	090203 <i>[Eliminated in FY2011]</i>	Culinary Arts and Food Service Management <i>[Eliminated in FY2011]</i>	34EA	Food Production, Management, and Service	n/a	64	64
L1	090205 <i>[Eliminated in FY2011]</i>	Hotels and Resorts <i>[Eliminated in FY2011]</i>	40EA	Hospitality and Facility Care Services	n/a	n/a	63
L1	090205 <i>[Eliminated in FY2011]</i>	Hotels and Resorts <i>[Eliminated in FY2011]</i>	40FA	Hospitality	n/a	63	n/a
G0	140100	Accounting	01EA	Accounting	59	59	59
N0	140210	Information Support and Services	81MB <i>[Eliminated in FY2010]</i>	Information Support and Technology <i>[Not used in FY2010 calculations]</i>	n/a	n/a	57
N0	140210	Information Support and Services	81MC	Information Support and Services	60	n/a	n/a
N2	140220	Network Systems	82MB <i>[Eliminated in FY2010]</i>	Network Systems <i>[Not used in FY2010 calculations]</i>	n/a	n/a	61
N2	140220	Network Systems	82MC	Network Systems	64	n/a	n/a
N3	140230	Programming/Software Development	83MB <i>[Eliminated in FY2010]</i>	Programming and Software Development <i>[Not used in FY2010 calculations]</i>	n/a	n/a	56
N3	140230	Programming/Software Development	83MC	Programming and Software Development	62	n/a	n/a
N1	140240	Interactive Media	84MB <i>[Eliminated in FY2010]</i>	Interactive Media <i>[Not used in FY2010 calculations]</i>	n/a	n/a	57
N1	140240	Interactive Media	84MC	Interactive Media	60	n/a	n/a
C0	140300	Administrative/Office Technology (Career-Technical)	02EA	Administrative Office Technology	62	62	62
C0	140300	Administrative/Office Technology (Career-Technical)	02MA	Administrative Office Technology	61	61	61
C1	140800	Business Management	13MC	Business Administration and Management	57	n/a	n/a
D8	170100	Environmental Control Technologies	07EA	Heating, Ventilation, Air-conditioning, and Refrigeration	68	68	68
T1	170301	Auto Collision Repair	09EA	Auto Collision Technician <i>(Not used in FY2010 calculations)</i>	69	n/a	69
T3	170302	Auto Technology	10DA	Auto Mechanics <i>(Not used in FY2010 calculations)</i>	67	n/a	67
n/a	170700 <i>[Eliminated in FY2011]</i>	Commercial Art Occupations <i>[Eliminated in FY2011]</i>	18EA	Visual Communications Art	n/a	61	61
n/a	170700 <i>[Eliminated in FY2011]</i>	Commercial Art Occupations <i>[Eliminated in FY2011]</i>	18MA	Visual Communications	n/a	58	58
n/a	170900 <i>[Eliminated in FY2011]</i>	Commercial Photography Occupations <i>[Eliminated in FY2011]</i>	19DA	Commercial Photography	n/a	69	69
D3	171001	Carpentry	15EA	Carpentry	67	67	67
D3	171001	Carpentry	15MA	Carpentry	67	67	67
D7	171002	Electrical Trades	27EA	Electrical Trades	66	66	66
D7	171002	Electrical Trades	27MB	Electrical Trades	66	66	66
D0	171004	Brick, Block and Cement Masonry	45DA	Masonry	58	58	58
D1	171011	Building and Property Maintenance	12EA	Building and Property Maintenance	71	71	71
R2	171012	Integrated Systems Technology	42EA	Industrial Maintenance	55	55	55
T7	171200	Medium/Heavy Truck Technician	24EA	Diesel Mechanics <i>(Not used in FY2010 calculations)</i>	67	n/a	67

R3	171300	Manufacturing Design and Development	26EA	Drafting	48	48	48
R3	171300	Manufacturing Design and Development	26MA	Drafting	51	51	51
R1	171503	Electronics	28EA	Electronics	58	58	58
R1	171503	Electronics	28MA	Electronics	58	58	58
B2	171900 <i>[Eliminated in FY2011]</i>	Graphic Occupations <i>[Eliminated in FY2011]</i>	38EA	Graphic Communications	n/a	61	61
B2	171900 <i>[Eliminated in FY2011]</i>	Graphic Occupations <i>[Eliminated in FY2011]</i>	38MA	Graphic Communications	n/a	56	56
R5	172302	Precision Machining	44EA	Precision Machine Technologies	72	72	72
R6	172306	Welding and Cutting	59EA	Welding	50	50	50
P1	172802	Criminal Justice	43FA	Criminal Justice	75	75	75
P5	172808	Private Security	43FA	Criminal Justice	75	75	75
T8	173100	Power Equipment Technology	56DA	Power Equipment Technology <i>(Not used in FY2010 calculations)</i>	63	n/a	63
n/a	179960 <i>[Eliminated in FY2011]</i>	Diversified Cooperative Trade (DCT) <i>[Eliminated in FY2011]</i>	Any of the tests for subject codes 17XXXXX	Any of the tests for subject codes 17XXXXX	n/a	As Applic able	As Applic able
L0	330005 <i>[NEW in FY2010]</i>	Culinary and Food Service Operations <i>[NEW in FY2010]</i>	34EA	Food Management, Production and Service	64	64	64
E0	350201 <i>[NEW in FY2010]</i>	Early Childhood Education <i>[NEW in FY2010]</i>	16FA	Early Childhood Education and Care	70	70	70

NOTE: Results of the Teaching Professions (subject code 350011) state developed portfolio (benchmark 67) are NOT used in the calculation of Technical Skill Attainment (2S1).

APPENDIX C

FY2011 CTE Industry Assessment and Workforce Development Course List

Technical Skill Attainment (2S1) for FY2011 is based on CTE Concentrators Who Left Secondary Education in FY2010.

CTE Industry Assessment data for this calculation may be reported in these EMIS reporting periods:

- FY2009 Yearend (N)
- FY2010 Yearend (N)
- FY2011 March (D)

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2009 Yearend (N)	EMIS FY2010 Yearend (N) AND FY2011 March (D)
070101	Dental Assistant	400	Certified Ohio Dental Assistant (CODA) – Examination	√	√
070101	Dental Assistant	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070103	Dental Laboratory Technology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070203	Medical Laboratory Technology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070204	Phlebotomy	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070302	Practical Nursing	420	National Council Licensure Examination for Licensed Practical/Vocational Nurses (NCLEX-PN) – Ohio Board of Nursing	√	√
070302	Practical Nursing	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070303	Nurse Assisting	440	Nurse Assistant – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√
070303	Nurse Assisting	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	√	n/a
070303	Nurse Assisting	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070305	Surgical Technology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070307	Home Health	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070410	Exercise Science/Sports and Recreation Healthcare	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070603	Optometric Occupations	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070904	Medical Assistant	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070906	Community Health Aide	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070912	Pharmacy Assisting	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070913	Health Unit Coordinator	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√
070994	Patient Care Technician	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√
070994	Patient Care Technician	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	√	n/a
070994	Patient Care Technician	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
070998	Diversified Health Occupations (DHO)	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√
070998	Diversified Health Occupations (DHO)	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	n/a

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2009 Yearend (N)	EMIS FY2010 Yearend (N) AND FY2011 March (D)
			<i>[Eliminated in FY2010]</i>		
070998	Diversified Health Occupations (DHO)	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
071100	Clinical Health Care Services	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
074820	Diagnostic Pathway	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
074830	Therapeutic Pathway	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√
074830	Therapeutic Pathway	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	√	n/a
074830	Therapeutic Pathway	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
074840	Biotechnology Health Support Pathway <i>[Correction]</i>	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
074850	Biotechnology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
074890	Health Information Management Services	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
079960	Diversified Cooperative Health Occupations (DCHO)	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√
079960	Diversified Cooperative Health Occupations (DCHO)	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	√	n/a
079960	Diversified Cooperative Health Occupations (DCHO)	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	n/a	√
090203	Culinary Arts and Food Service Management	480	ProStart Certificate of Achievement – National Restaurant Association Education Foundation	√	√
170100	Environmental Control Technologies	100	HVAC—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√
170100	Environmental Control Technologies	610	Air-Conditioning & Refrigeration Institute (ARI) Certificate of Completion Exam; Industry Competency Exam (ICE); Partnership for Air-Conditioning, Heating and Refrigeration Accreditation (PAHRA)	n/a	√
170100	Environmental Control Technologies	620	Heating, Electrical, Air-Conditioning Technology Certificate of Achievement – HVAC Excellence	n/a	√
170301	Auto Collision Repair	650	NATEF End of Program Test—Paint and Refinishing – National Automotive Technician Education Foundation (NATEF)	n/a	√
170302	Auto Technology	120	Automotive Youth Educational Systems (AYES) End of Program Test – Automotive Youth Educational Systems (AYES) <i>[Eliminated in FY2010]</i>	√	n/a
170302	Auto Technology	140	NATEF End of Program Test—Automotive – National Automotive Technician Education Foundation (NATEF)	√	√
170302	Auto Technology	600	National Automotive Technician Education Foundation End of Program Test – National Automotive Technician Education Foundation (NATEF)	n/a	√
171001	Carpentry	160	Carpentry Level One—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√
171002	Electrical Trades	190	Electrical Trades—National Construction Career Test – National Center for Construction Education and Research (NCCER)	n/a	√
171003	Heavy Equipment Operations (Construction)	150	Heavy Equipment Construction—National Construction Career Test – National Center for Construction Education and Research (NCCER)	n/a	√
171004	Brick, Block and Cement Masonry	170	Masonry—National Construction Career Test – National Center for Construction Education and Research (NCCER)	n/a	√
171011	Building and Property Maintenance	195	Building Technology – National Center for Construction Education and Research (NCCER)	√	√

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2009 Yearend (N)	EMIS FY2010 Yearend (N) AND FY2011 March (D)
171017	Building Technology	195	Building Technology – National Center for Construction Education and Research (NCCER)	n/a	√
171503	Electronics	180	Student Electronics Technician (SET) Exam – Electronics Technicians Association International (ETA)	√	√
171815	Engineering Science	300	Project Lead The Way – Introduction to Engineering Design Part C	√	√
171815	Engineering Science	320	Project Lead The Way – Principles Of Engineering Part A and C	√	√
171815	Engineering Science	340	Project Lead The Way – Digital Electronics Part C	√	√
171816	Computer Integrated Manufacturing	360	Project Lead The Way – Computer Integrated Manufacturing Part C	√	√
171817	Civil Engineering and Architecture	380	Project Lead The Way – Civil Engineering and Architecture Part C	√	√
171818	Fuel Cell Technologies	240	Ohio – Fuel Cell Technologies	√	√
171819	Materials Joining Technologies	220	Ohio – Materials Joining Technologies	√	√
171820	Biotechnical Engineering	390	Project Lead The Way – Biotechnology Engineering Part C	n/a	√
171821	Computational Science and Engineering	500	Ohio – Computational Science and Engineering	√	√
171900	Graphic Occupations	580	Print ED Certification – The Graphic Arts and Research Foundation	√	√
172306	Welding and Cutting	200	Schools Excelling through National Skills Education (SENSE) Level 1 Test – American Welding Society	√	√
172306	Welding and Cutting	260	Welding – National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√
172601	Barbering	540	Barber License Examination – Ohio State Barber Board	√	√
172602	Cosmetology	560	Cosmetology License Examination – Ohio State Board of Cosmetology	√	√
172801	Fire Fighter Training	630	Fire Fighter II Certification – Ohio Emergency Medical Services	n/a	√
172811	Emergency Medical Technician – Secondary	640	EMT Basic National Registry Certificate – Ohio Emergency Medical Services	n/a	√
173601	Wood Product Technologies	270	Woodlinks Certification – Woodlinks USA	n/a	√
330005	Culinary and Food Service Operations	480	ProStart Certificate of Achievement – National Restaurant Association Education Foundation	√	√
340005	Visual Design and Imaging	580	Print ED Certification – The Graphic Arts and Research Foundation	√	√

APPENDIX D

FY2012 CTE Industry Assessment and Workforce Development Course–CTE Program List

Technical Skill Attainment (2S1) for FY2012 is based on CTE Concentrators Who Left Secondary Education in FY2011. CTE Industry Assessment data for this calculation may be reported in these EMIS reporting periods:

- FY2010 Yearend (N)
- FY2011 Yearend (N)
- FY2012 March (D)

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2010 Yearend (N)	EMIS FY2011 Yearend (N) AND FY2012 March (D)	CTE Program Code
070101	Dental Assistant	400	Certified Ohio Dental Assistant (CODA) – Examination	√	√	J3
070101	Dental Assistant	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J3
070103	Dental Laboratory Technology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J4
070203	Medical Laboratory Technology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JC
070204	Phlebotomy	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JH
070302	Practical Nursing	420	National Council Licensure Examination for Licensed Practical/Vocational Nurses (NCLEX-PN) – Ohio Board of Nursing	√	√	JJ
070302	Practical Nursing	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JJ
070303	Nurse Assisting	440	Nurse Assistant – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√	JD
070303	Nurse Assisting	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health [Eliminated in FY2010]	n/a	n/a	n/a
070303	Nurse Assisting	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	n/a	JD
070305	Surgical Technology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JK
070307	Home Health	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JA
070410	Exercise Science/Sports and Recreation Healthcare	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J6
070603	Optometric Occupations	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JE
070904	Medical Assistant	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JB
070906	Community Health Aide	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J2
070912	Pharmacy Assisting Technician [Changed in FY2011]	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JG

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2010 Yearend (N)	EMIS FY2011 Yearend (N) AND FY2012 March (D)	CTE Program Code
070913	Health Unit Coordinator	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J9
070994	Patient Care Technician	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	n/a	n/a	n/a
070994	Patient Care Technician	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JF
070998	Diversified Health Occupations (DHO) <i>[Eliminated in FY2011]</i>	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	n/a	n/a
070998	Diversified Health Occupations (DHO) <i>[Eliminated in FY2011]</i>	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	n/a	n/a	n/a
070998	Diversified Health Occupations (DHO) <i>[Eliminated in FY2011]</i>	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	n/a	n/a
071100	Clinical Health Care Services	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J1
074820	Diagnostic Pathway	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J5
074830	Therapeutic Pathway	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	√	JL
074830	Therapeutic Pathway	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	n/a	n/a	n/a
074830	Therapeutic Pathway	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	JL
074840	Biotechnology Health Support Pathway <i>[Correction]</i>	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J8
074850	Biotechnology	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J0
074890	Health Information Management Services	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	√	J7
079960	Diversified Cooperative Health Occupations (DCHO) <i>[Eliminated in FY2011]</i>	440	State Tested Nurse Aide Examination (STNA) – Ohio Department of Health	√	n/a	n/a
079960	Diversified Cooperative Health Occupations (DCHO) <i>[Eliminated in FY2011]</i>	460	Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health <i>[Eliminated in FY2010]</i>	n/a	n/a	n/a
079960	Diversified Cooperative Health Occupations (DCHO) <i>[Eliminated in FY2011]</i>	470	National Healthcare Foundation Skills Assessment – National Consortium for Health Science and Technology Education	√	n/a	n/a
090203	Culinary Arts and Food Service Management <i>[Eliminated in FY2011]</i>	480	ProStart Certificate of Achievement – National Restaurant Association Education Foundation	√	n/a	L0
170100	Environmental Control Technologies	100	HVAC—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√	D8
170100	Environmental Control Technologies	610	Air-Conditioning & Refrigeration Institute (ARI) Certificate of Completion Exam; Industry Competency Exam (ICE); Partnership for Air-Conditioning, Heating and Refrigeration Accreditation (PAHRA)	√	√	D8
170100	Environmental Control	620	Heating, Electrical, Air-Conditioning Technology Certificate	√	√	D8

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2010 Yearend (N)	EMIS FY2011 Yearend (N) AND FY2012 March (D)	CTE Program Code
	Technologies		of Achievement – HVAC Excellence			
170301	Auto Collision Repair	650	NATEF End of Program Test—Paint and Refinishing – National Automotive Technician Education Foundation (NATEF)	√	√	T1
170302	Auto Technology	120	Automotive Youth Educational Systems (AYES) End of Program Test—Automotive Youth Educational Systems (AYES) [Eliminated in FY2010]	n/a	n/a	n/a
170302	Auto Technology	140	NATEF End of Program Test—Automotive – National Automotive Technician Education Foundation (NATEF)	√	√	T3
170302	Auto Technology	600	National Automotive Technician Education Foundation End of Program Test – National Automotive Technician Education Foundation (NATEF)	√	√	T3
171001	Carpentry	160	Carpentry Level One—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√	D3
171002	Electrical Trades	190	Electrical Trades—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√	D7
171003	Heavy Equipment Operations (Construction)	150	Heavy Equipment Construction—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√	D9
171004	Brick, Block and Cement Masonry	170	Masonry—National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√	D0
171011	Building and Property Maintenance	195	Building Technology – National Center for Construction Education and Research (NCCER)	√	√	D1
171017	Building Technology	195	Building Technology – National Center for Construction Education and Research (NCCER)	√	√	D2
171503	Electronics	180	Student Electronics Technician (SET) Exam – Electronics Technicians Association International (ETA)	√	√	R1
171815	Engineering Science	300	Project Lead The Way – Introduction to Engineering Design Part C	√	√	F2
171815	Engineering Science	320	Project Lead The Way – Principles Of Engineering Part A and C	√	√	F2
171815	Engineering Science	340	Project Lead The Way – Digital Electronics Part C [Used in 2S1 Calculation for FY2012]	√	√	F2
171816	Computer Integrated Manufacturing	360	Project Lead The Way – Computer Integrated Manufacturing Part C	√	√	F2
171816	Computer Integrated Manufacturing	300	Project Lead The Way – Introduction to Engineering Design Part C	n/a	√	F2
171816	Computer Integrated Manufacturing	320	Project Lead The Way – Principles Of Engineering Part A and C	n/a	√	F2
171816	Computer Integrated Manufacturing	340	Project Lead The Way – Digital Electronics Part C	n/a	√	F2
171817	Civil Engineering and Architecture	380	Project Lead The Way – Civil Engineering and Architecture Part C	√	√	F2
171817	Civil Engineering and Architecture	300	Project Lead The Way – Introduction to Engineering Design Part C	n/a	√	F2
171817	Civil Engineering and Architecture	320	Project Lead The Way – Principles Of Engineering Part A and C	n/a	√	F2
171817	Civil Engineering and Architecture	340	Project Lead The Way – Digital Electronics Part C	n/a	√	F2
171818	Fuel Cell Technologies	240	Ohio – Fuel Cell Technologies	√	√	F2
171818	Fuel Cell Technologies	300	Project Lead The Way – Introduction to Engineering Design Part C	n/a	√	F2
171818	Fuel Cell Technologies	320	Project Lead The Way – Principles Of Engineering Part A and C	n/a	√	F2
171818	Fuel Cell Technologies	340	Project Lead The Way – Digital Electronics Part C	n/a	√	F2
171819	Materials Joining Technologies	220	Ohio – Materials Joining Technologies	√	√	F2
171819	Materials Joining	300	Project Lead The Way – Introduction to Engineering Design	n/a	√	F2

Subject Code	Subject Title	EMIS Code	CTE Industry Assessment Name	EMIS FY2010 Yearend (N)	EMIS FY2011 Yearend (N) AND FY2012 March (D)	CTE Program Code
	Technologies		Part C			
171819	Materials Joining Technologies	320	Project Lead The Way – Principles Of Engineering Part A and C	n/a	√	F2
171819	Materials Joining Technologies	340	Project Lead The Way – Digital Electronics Part C	n/a	√	F2
171820	Biotechnical Engineering	390	Project Lead The Way – Biotechnology Engineering Part C	√	√	F2
171820	Biotechnical Engineering	300	Project Lead The Way – Introduction to Engineering Design Part C	n/a	√	F2
171820	Biotechnical Engineering	320	Project Lead The Way – Principles Of Engineering Part A and C	n/a	√	F2
171820	Biotechnical Engineering	340	Project Lead The Way – Digital Electronics Part C	n/a	√	F2
171821	Computational Science and Engineering	500	Ohio – Computational Science and Engineering	√	√	F2
171821	Computational Science and Engineering	300	Project Lead The Way – Introduction to Engineering Design Part C	n/a	√	F2
171821	Computational Science and Engineering	320	Project Lead The Way – Principles Of Engineering Part A and C	n/a	√	F2
171821	Computational Science and Engineering	340	Project Lead The Way – Digital Electronics Part C	n/a	√	F2
171900	Graphic Occupations [Eliminated in FY2011]	580	Print ED Certification – The Graphic Arts and Research Foundation	√	n/a	n/a
172306	Welding and Cutting	200	Schools Excelling through National Skills Education (SENSE) Level 1 Test – American Welding Society	√	√	R6
172306	Welding and Cutting	260	Welding – National Construction Career Test – National Center for Construction Education and Research (NCCER)	√	√	R6
172601	Barbering	540	Barber License Examination – Ohio State Barber Board	√	√	M0
172602	Cosmetology	560	Cosmetology License Examination – Ohio State Board of Cosmetology	√	√	M1
172801	Fire Fighter Training	630	Fire Fighter II Certification – Ohio Emergency Medical Services	√	√	P4
172811	Emergency Medical Technician – Secondary	640	EMT Basic National Registry Certificate – Ohio Emergency Medical Services	√	√	P3
173601	Wood Product Technologies	270	Woodlinks Certification – Woodlinks USA	√	√	DC
330005	Culinary and Food Service Operations	480	ProStart Certificate of Achievement – National Restaurant Association Education Foundation	√	√	L0
340005	Visual Design and Imaging	580	Print ED Certification – The Graphic Arts and Research Foundation	√	√	B2

APPENDIX E

FY2011 Nontraditional CTE Subjects

Nontraditional CTE programs prepare students for occupations or fields of work in which individuals from one gender comprise less than 25 percent of the individuals employed in those occupations or fields of work.

- Female nontraditional occupations – Less than 25 percent of individuals employed are female
- Male nontraditional occupations – Less than 25 percent of the individuals employed and male

The FY2011 Nontraditional CTE Subjects data is used in the calculation of Nontraditional Participation (6S1) and Nontraditional Completion (6S2) in these ways:

- **Nontraditional Participation (6S1)** – Students included in this calculation are those identified as **CTE Participants** in these CTE courses.
- **Nontraditional Completion (6S2)** – Students included in this calculation are those identified as **CTE Concentrators Who Left Secondary Education in FY2011** and who:
 - In FY2011, were NOT reported as a CTE Concentrator with a 2-digit CTE Program of Concentration code;
 - AND**
 - Prior to FY2011, were reported as a CTE Concentrator in any subject that is NOT aligned with a FY2011 CTE Program of Concentration code.

FY2011 Nontraditional CTE Subjects

Subject Code	Subject Title	Female or Male
010001	Environmental and Agricultural Science	Female
010201	Agricultural and Industrial Equipment	Female
010301	Agribusiness and Production Systems	Female
010601	Horticulture	Female
010701	Natural Resource Management	Female
010901	Animal Science and Management	Female
011001	Food Science and Technology	Female
040810	Marketing Management	Female
040115	Entertainment Marketing	Female
041900	Acquisition and Logistics	Female
070410	Exercise Science/Sports & Recreation Healthcare	Female
074850	Biotechnology	Female
090203	Culinary Arts and Food Service Management	Female
090205	Hotel and Resorts	Female
090230	Government and Public Administration	Female
140001	Business and Management Foundation	Female
140200	Information Technology I	Female
140210	Information Support and Services	Female
140220	Network Systems	Female
140230	Programming and Software Development	Female
140240	Interactive Media	Female
170005	Construction Technologies	Female
170006	Manufacturing Technologies	Female
170007	Engineering Systems	Female
170100	Environmental Control Technologies	Female
170301	Auto Collision Repair	Female
170302	Auto Technology	Female

Subject Code	Subject Title	Female or Male
170303	Auto Specialization	Female
170360	Manufacturing Operations	Female
170370	Automation and Robotics	Female
170400	Aviation Occupations	Female
170401	Aircraft Maintenance	Female
170403	Ground Operations	Female
170700	Commercial Art Occupations	Female
170900	Commercial Photography Occupations	Female
171001	Carpentry	Female
171002	Electrical Trades	Female
171003	Heavy Equipment (Construction)	Female
171004	Brick, Block and Cement Masonry	Female
171005	Interior Design Applications	Female
171007	Plumbing and Pipefitting	Female
171011	Building and Property Maintenance	Female
171012	Integrated Systems Technology	Female
171017	Building Technology	Female
171100	Custodial Services	Female
171200	Medium/Heavy Truck Technician	Female
171300	Manufacturing Design and Development	Female
171402	Power Transmission	Female
171503	Electronics	Female
171504	Telecommunications	Female
171600	Energy Science	Female
171805	Construction – Design-Build	Female
171806	Construction – Management	Female
171807	Engineering Technologies – Design	Female
171808	Engineering Technologies – Process	Female
171809	Engineering Technologies – Product/Service	Female
171810	Engineering Technology	Female
171815	Engineering Science	Female
171816	Computer Integrated Manufacturing	Female
171817	Civil Engineering and Architecture	Female
171818	Fuel Cell Technologies	Female
171819	Materials Joining Technologies	Female
171820	Biotechnical Engineering	Female
171821	Computational Science and Engineering	Female
171825	Engineering Design and Development	Female
171900	Graphic Occupations	Female
172000	Chemical Laboratory Assisting	Female
172004	Industrial Laboratory Assisting	Female
172302	Precision Machining	Female
172303	Manufacturing Occupations	Female
172306	Welding and Cutting	Female
172801	Fire Fighter Training	Female
172802	Criminal Justice	Female
172808	Private Security	Female
172812	Public Safety – Core	Female
172815	Criminal Science Technology	Female

Subject Code	Subject Title	Female or Male
173100	Power Equipment Technology	Female
173601	Wood Product Technologies	Female
179960	Diversified Cooperative Training (DCT)	Female
330005	Culinary and Food Service Operations	Female
330010	Lodging	Female
330015	Introduction to Hospitality and Tourism	Female
340005	Visual Design and Imaging	Female
340015	Media Arts	Female
340020	Performing Arts	Female
360230	Government and Public Administration	Female
041118	Hospitality and Tourism	Male
070005	Health Science	Male
070101	Dental Assistant	Male
070103	Dental Laboratory Technology	Male
070203	Medical Laboratory Technology	Male
070204	Phlebotomy	Male
070302	Practical Nursing	Male
070303	Nurse Assisting	Male
070305	Surgical Technology	Male
070307	Home Health	Male
070603	Optometric Occupations	Male
070904	Medical Assistant	Male
070906	Community Health Aide	Male
070912	Pharmacy Technician	Male
070913	Health Unit Coordinator	Male
070994	Patient Care Technician	Male
070998	Diversified Health Occupations (DHO)	Male
071100	Clinical Health Care Services	Male
074820	Diagnostic Pathway	Male
074830	Therapeutic Pathway	Male
074840	Health Support Pathway	Male
074890	Health Information Management Services	Male
079960	Diversified Cooperative Health Occupations (DCHO)	Male
090011	Career Paths for the Teaching Professions	Male
090201	Early Childhood Education and Care	Male
140025	Finance Career Field Course	Male
140050	Introduction to Business and Administrative Services	Male
140300	Administrative and Professional Support	Male
140310	Legal Management and Support	Male
140320	Medical Management and Support	Male
172600	Human Services	Male
172602	Cosmetology	Male
172605	Family and Community Services	Male
175000	Biomedical Science	Male
330020	Travel and Tourism	Male
350001	Introduction to Education and Training	Male
350011	Teaching Professions	Male
350201	Early Childhood Education	Male

APPENDIX F

FY2011 Nontraditional CTE Programs

Nontraditional CTE programs prepare students for occupations or fields of work in which individuals from one gender comprise less than 25 percent of the individuals employed in those occupations or fields of work.

- Female nontraditional occupations – Less than 25 percent of individuals employed are female
- Male nontraditional occupations – Less than 25 percent of the individuals employed and male

Students reported as CTE Concentrators in these CTE programs are included in the calculation of Nontraditional Completion (6S2).

CTE Program Code	CTE Program Name	Female or Male
A0	Agribusiness and Production Systems	Female
A1	Agricultural and Industrial Power Technology	Female
A2	Animal Science and Management	Female
A4	Food Science and Technology	Female
A5	Horticulture	Female
A6	Natural Resource Management	Female
B0	Media Arts	Female
B1	Performing Arts	Female
B2	Visual Design and Imaging	Female
C1	Business Management	Female
D0	Brick, Block and Cement Masonry	Female
D1	Building and Property Maintenance	Female
D2	Building Technology	Female
D3	Carpentry	Female
D4	Construction- Design -Build	Female
D5	Construction--Management	Female
D6	Custodial Services	Female
D7	Electrical Trade	Female
D8	Environmental Control Technologies	Female
D9	Heavy Equipment Operations (Construction)	Female
DA	Interior Design Applications	Female
DB	Plumbing and Pipefitting	Female
DC	Wood Product Technologies	Female
F0	Biotechnical Science	Female
F1	Energy Science	Female
F2	Engineering Science	Female
F3	Engineering Technology	Female
F4	Power Transmissions	Female
F5	Telecommunications	Female
H0	Government and Public Administration	Female
J0	Biotechnology	Female
J6	Exercise Science/Sports and Recreation Healthcare	Female
L0	Culinary and Food Service Operations	Female
L1	Lodging	Female
N0	Information Support and Services	Female
N1	Interactive Media	Female
N2	Network Systems	Female

CTE Program Code	CTE Program Name	Female or Male
N3	Programming and Software Development	Female
P1	Criminal Justice	Female
P2	Criminal Science Technologies	Female
P4	Fire Fighter Training	Female
P5	Private Security	Female
R0	Automation and Robotics	Female
R1	Electronics	Female
R2	Integrated Systems Technology	Female
R3	Manufacturing Design and Development	Female
R4	Manufacturing Occupations	Female
R5	Precision Machining	Female
R6	Welding and Cutting	Female
S0	Acquisition and Logistics	Female
S4	Marketing Management	Female
T0	Aircraft Maintenance	Female
T1	Auto Collision Repair	Female
T2	Auto Specialization	Female
T3	Auto Technology	Female
T4	Aviation Occupations	Female
T5	Ground Operations	Female
T7	Medium/Heavy Truck Technician	Female
T8	Power Equipment Technology	Female
C0	Administrative and Professional Support	Male
C2	Legal Management and Support	Male
C3	Medical Management and Support	Male
E0	Early Childhood Education and Care	Male
E1	Teaching Professions	Male
F0	Biomedical Science	Male
J0	Biotechnology	Male
J2	Community Health Aide	Male
J3	Dental Assistant	Male
J4	Dental Lab Technology	Male
J5	Diagnostic Pathway	Male
J7	Health Information Management Services	Male
J8	Health Support Pathway	Male
J9	Health Unit Coordinator	Male
JA	Home Health	Male
JB	Medical Assistant	Male
JC	Medical Lab Technology	Male
JD	Nurse Assisting	Male
JE	Optometric Occupations	Male
JF	Patient Care Technician	Male
JG	Pharmacy Technician	Male
JH	Phlebotomy	Male
JJ	Practical Nursing	Male
JK	Surgical Technology	Male
JL	Therapeutic Pathway	Male
L2	Travel and Tourism	Male

CTE Program Code	CTE Program Name	Female or Male
M1	Cosmetology	Male
M2	Family and Community Services	Male

APPENDIX G

FY2011 CTE Nontraditional Enrollees (Student Subgroup)

A CTE Nontraditional Enrollee is a student who:

- Is a CTE Concentrator Who Left Secondary Education; and
- Was a Nontraditional Participant (in the numerator of 6S1 (Nontraditional Participation)) in the current or previous years.

EXAMPLE of Nontraditional Participant – Carpentry (171001) is a nontraditional CTE course for female students.

- FEMALE CTE Participant in this course is a CTE Nontraditional Enrollee.
- MALE CTE Participant in this course is NOT a CTE Nontraditional Enrollee.

CTE Nontraditional Enrollees is a student subgroup for which CTE performance must be calculated for the following CTE indicators of performance:

- High School Academic Achievement Standard—Reading/Language Arts (1S1)
- High School Academic Achievement Standard—Mathematics (1S2)
- Technical Skill Attainment (2S1)
- Secondary School Completion (3S1)
- Student Graduation Rates (4S1)
- Secondary Placement (5S1)
- Industry-Recognized Certificate/License (1STP3; and State Quality Indicator 1)
- Passed Course that Awarded Postsecondary Credit (1STP4; and State Quality Indicator 2)

CTE Nontraditional Enrollees are included in FY2011 CTE performance calculations based on the year the CTE Concentrators left secondary education:

- 1S1, 1S2, 6S1, 6S2 and 1STP4/State Quality Indicator 2 – CTE Concentrators Who Left Secondary Education in FY2011.
- 2S1, 3S1, 4S1, 5Sa and 1STP3/State Quality Indicator 1 – CTE Concentrators Who Left Secondary Education in FY2010.

FY2009 / FY2010 / FY2011 Nontraditional CTE Courses

Subject Code	Subject Title	Female or Male	FY2009	FY2010	FY2011
010001	Environmental and Agricultural Science	Female	√	√	√
010201	Agricultural and Industrial Equipment	Female	√	√	√
010301	Agribusiness and Production Systems	Female	√	√	√
010601	Horticulture	Female	√	√	√
010701	Natural Resource Management	Female	√	√	√
010901	Animal Science and Management	Female	√	√	√
011001	Food Science and Technology	Female	√	√	√
040810	Marketing Management	Female	√	√	√
040115	Entertainment Marketing	Female	√	√	n/a
041900	Acquisition and Logistics	Female	√	√	√
070410	Exercise Science/Sports & Recreation Healthcare	Female	√	√	√
074850	Biotechnology	Female	√	√	√
090203	Culinary Arts and Food Service Management	Female	√	√	n/a
090205	Hotel and Resorts	Female	√	√	n/a
090230	Government and Public Administration	Female	n/a	√	n/a
140001	Business and Management Foundation	Female	n/a	n/a	√
140200	Information Technology I	Female	√	√	√

Subject Code	Subject Title	Female or Male	FY2009	FY2010	FY2011
140210	Information Support and Services	Female	√	√	√
140220	Network Systems	Female	√	√	√
140230	Programming and Software Development	Female	√	√	√
140240	Interactive Media	Female	√	√	√
170005	Construction Technologies	Female	√	√	√
170006	Manufacturing Technologies	Female	√	√	√
170007	Engineering Systems	Female	√	√	√
170100	Environmental Control Technologies	Female	n/a	n/a	√
170301	Auto Collision Repair	Female	√	√	√
170302	Auto Technology	Female	√	√	√
170303	Auto Specialization	Female	√	√	√
170360	Manufacturing Operations	Female	√	√	√
170370	Automation and Robotics	Female	n/a	n/a	√
170400	Aviation Occupations	Female	√	√	√
170401	Aircraft Maintenance	Female	√	√	√
170403	Ground Operations	Female	√	√	√
170700	Commercial Art Occupations	Female	√	√	n/a
170900	Commercial Photography Occupations	Female	√	√	n/a
171001	Carpentry	Female	√	√	√
171002	Electrical Trades	Female	√	√	√
171003	Heavy Equipment (Construction)	Female	√	√	√
171004	Brick, Block and Cement Masonry	Female	√	√	√
171005	Interior Design Applications	Female	√	√	√
171007	Plumbing and Pipefitting	Female	√	√	√
171011	Building and Property Maintenance	Female	√	√	√
171012	Integrated Systems Technology	Female	√	√	√
171017	Building Technology	Female	√	√	√
171100	Custodial Services	Female	√	√	√
171200	Medium/Heavy Truck Technician	Female	√	√	√
171300	Manufacturing Design and Development	Female	√	√	√
171402	Power Transmission	Female	√	√	√
171503	Electronics	Female	√	√	√
171504	Telecommunications	Female	√	√	√
171600	Energy Science	Female	√	√	√
171805	Construction – Design-Build	Female	√	√	√
171806	Construction – Management	Female	√	√	√
171807	Engineering Technologies – Design	Female	√	√	n/a
171808	Engineering Technologies – Process	Female	√	√	n/a
171809	Engineering Technologies – Product/Service	Female	√	√	n/a
171810	Engineering Technology	Female	√	√	√
171815	Engineering Science	Female	√	√	√
171816	Computer Integrated Manufacturing	Female	√	√	√
171817	Civil Engineering and Architecture	Female	√	√	√
171818	Fuel Cell Technologies	Female	√	√	√
171819	Materials Joining Technologies	Female	√	√	√

Subject Code	Subject Title	Female or Male	FY2009	FY2010	FY2011
171820	Biotechnical Engineering	Female	√	√	√
171821	Computational Science and Engineering	Female	√	√	√
171825	Engineering Design and Development	Female	√	√	√
171900	Graphic Occupations	Female	√	√	n/a
172000	Chemical Laboratory Assisting	Female	√	√	n/a
172004	Industrial Laboratory Assisting	Female	√	√	n/a
172302	Precision Machining	Female	√	√	√
172303	Manufacturing Occupations	Female	√	√	√
172306	Welding and Cutting	Female	√	√	√
172801	Fire Fighter Training	Female	√	√	√
172802	Criminal Justice	Female	√	√	√
172808	Private Security	Female	√	√	√
172812	Public Safety – Core	Female	√	√	√
172815	Criminal Science Technology	Female	√	√	√
173100	Power Equipment Technology	Female	√	√	√
173601	Wood Product Technologies	Female	√	√	√
179960	Diversified Cooperative Training (DCT)	Female	√	√	n/a
330005	Culinary and Food Service Operations	Female	n/a	√	√
330010	Lodging	Female	n/a	√	√
330015	Introduction to Hospitality and Tourism	Female	n/a	n/a	√
340005	Visual Design and Imaging	Female	n/a	√	√
340015	Media Arts	Female	n/a	√	√
340020	Performing Arts	Female	n/a	√	√
360230	Government and Public Administration	Female	n/a	√	√
041118	Hospitality and Tourism	Male	√	√	n/a
070005	Health Science	Male	√	√	√
070101	Dental Assistant	Male	√	√	√
070103	Dental Laboratory Technology	Male	√	√	√
070203	Medical Laboratory Technology	Male	√	√	√
070204	Phlebotomy	Male	√	√	√
070302	Practical Nursing	Male	√	√	√
070303	Nurse Assisting	Male	√	√	√
070305	Surgical Technology	Male	√	√	√
070307	Home Health	Male	√	√	√
070603	Optometric Occupations	Male	√	√	√
070904	Medical Assistant	Male	√	√	√
070906	Community Health Aide	Male	√	√	√
070912	Pharmacy Assisting Technician	Male	√	√	√
070913	Health Unit Coordinator	Male	√	√	√
070994	Patient Care Technician	Male	√	√	√
070998	Diversified Health Occupations (DHO)	Male	√	√	n/a
071100	Clinical Health Care Services	Male	√	√	√
074820	Diagnostic Pathway	Male	√	√	√
074830	Therapeutic Pathway	Male	√	√	√

Subject Code	Subject Title	Female or Male	FY2009	FY2010	FY2011
074840	Health Support Pathway	Male	√	√	√
074890	Health Information Management Services	Male	√	√	√
079960	Diversified Cooperative Health Occupations (DCHO)	Male	√	√	n/a
090011	Career Paths for the Teaching Professions	Male	√	√	n/a
090201	Early Childhood Education and Care	Male	√	√	n/a
140025	Finance Career Field Course	Male	√	√	√
140050	Introduction to Business and Administrative Services	Male	√	√	√
140075	Interdisciplinary Career Field Business Concepts	Male	√	n/a	n/a
140300	Administrative and Professional Support	Male	√	√	√
140310	Legal Management and Support	Male	√	√	√
140320	Medical Management and Support	Male	√	√	√
172600	Human Services	Male	n/a	n/a	√
172602	Cosmetology	Male	√	√	√
172605	Family and Community Services	Male	n/a	n/a	√
175000	Biomedical Science	Male	n/a	√	√
330020	Travel and Tourism	Male	√	√	√
350001	Introduction to Education and Training	Male	n/a	√	√
350011	Teaching Professions	Male	n/a	√	√
350201	Early Childhood Education	Male	n/a	√	√