

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



Office of Career-Technical Education

Version 1.0 – January 25, 2012

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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](http://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**
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- 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**
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**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 12<sup>th</sup> 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 12<sup>th</sup> 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 12<sup>th</sup> 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)<sup>1</sup> 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).

<sup>1</sup> 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)<sup>2</sup>, or Incorrectly reported as a CTE Concentrator (X)

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

<sup>2</sup> 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 <sup>1</sup> | 1S2 <sup>1</sup> | SCI <sup>1</sup> | 2S1 <sup>2</sup> | 3S1 <sup>2</sup> | 4S1 <sup>2</sup> | 5S1 <sup>2</sup> | 6S1 <sup>3</sup> | 6S2 <sup>1</sup> | 1STP3 <sup>2,4</sup> | 1STP4 <sup>1,5</sup> |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|----------------------|
| 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 <sup>6</sup> | X                | X                | X                | X                | X                | X                | X                | --               | --               | X                    | X                    |
| Secondary Tech Prep CTE Concentrators     | X                | X                | X                | X                | X                | X                | X                | X                | X                | --                   | --                   |

<sup>1</sup> CTE Concentrators Who Left Secondary Education the reporting (current) year.

<sup>2</sup> CTE Concentrators Who Left Secondary Education the previous year.

<sup>3</sup> CTE Participants in the reporting (current) year.

<sup>4</sup> Secondary Tech Prep CTE Concentrators Who Left Secondary Education the previous year.

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

<sup>6</sup> 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 |
| <b>Ohio Career Field name: Agricultural and Environmental Systems (01)</b>                            |                  |  |   |
| 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<br>[NEW in FY2011]               |
|   |                  | Landscape Systems Management (PC)                      | 010615<br>[NEW in FY2011]               |
|   |                  | Agronomic Systems (PC)                                 | 010620<br>[NEW in FY2011]               |
|   |                  | Floral Design and Marketing (PC)                       | 010625<br>[NEW in FY2011]               |
|   |                  | Landscape Design and Build (PC)                        | 010630<br>[NEW in FY2011]               |
|   |                  | Turf Science and Management (PC)                       | 010635<br>[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<br>[NEW in FY2011]               |
|   |                  | Landscape Systems Management (PC)                      | 010615<br>[NEW in FY2011]               |
|   |                  | Floral Design and Marketing (PC)                       | 010625<br>[NEW in FY2011]               |
|   |                  | Landscape Design and Build (PC)                        | 010630<br>[NEW in FY2011]               |
|   |                  | Turf Science and Management (PC)                       | 010635<br>[NEW in FY2011]               |
| Natural Resource Management   | A6               | Environmental and Agricultural Science (CC)            | 010001*                                 |
|   |                  | Natural Resource Management (PC)                       | 010701                                  |
| <b>Ohio Career Field name: Arts and Communication (02)</b>  |                  |  |   |
| 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               |
| <b>Ohio Career Field name: Business and Administrative Services (03)</b>                  |    |   |                      |
| 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* <sup>2</sup> |
|   |    | Finance Career Field Course (CC)  | 140025*              |
|   |    | Introduction to Business and Administrative Services (CC)   | 140050* <sup>2</sup> |
|   |    | Administrative and Professional Support (PC)  | 140300               |
| Business Management   | C1 | Introduction to Marketing (CC)  | 040805*              |
|   |    | Business and Management Foundations (FC)  | 140001* <sup>2</sup> |
|   |    | Finance Career Field Course (CC)  | 140025*              |
|   |    | Introduction to Business and Administrative Services (CC)   | 140050* <sup>2</sup> |
|   |    | Business Management (PC)  | 140800               |
| Legal Management and Support  | C2 | Introduction to Marketing (CC)  | 040805*              |
|   |    | Business and Management Foundations (FC)  | 140001* <sup>2</sup> |
|   |    | Finance Career Field Course (CC)  | 140025*              |
|   |    | Introduction to Business and Administrative Services (CC)   | 140050* <sup>2</sup> |
|   |    | Legal Management and Support (PC)   | 140310               |
| Medical Management and Support  | C3 | Introduction to Marketing (CC)  | 040805*              |
|   |    | Business and Management Foundations (FC)  | 140001* <sup>2</sup> |
|   |    | Finance Career Field Course (CC)  | 140025*              |
|   |    | Introduction to Business and Administrative Services (CC)   | 140050* <sup>2</sup> |
|   |    | Medical Management and Support (PC)   | 140320               |
| <b>Ohio Career Field name: Construction Technologies (04)</b>                             |    |   |                      |
| 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               |
| <b>Ohio Career Field name: Education and Training (05)</b>                                |    |   |                      |
| 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               |
| <b>Ohio Career Field name: Engineering and Science Technologies (06)</b>                  |    |   |                      |
| 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)<br>(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               |
| <b>Ohio Career Field name: Finance (07)</b>                                   |    |   |                      |
| 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* <sup>2</sup> |
|   |    | 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* <sup>2</sup> |
|   |    | Introduction to Business and Administrative Services (CC) | 140050*              |
|   |    | Financial Services (PC)                                   | 140110               |
| <b>Ohio Career Field name: Government and Public Administration (08)</b>      |    |   |                      |
| States' Career Clusters Initiative name: Government and Public Administration |    |   |                      |
| Government and Public Administration  | H0 | Government and Public Administration (PC)                 | 360230               |
| <b>Ohio Career Field name: Health Science (09)</b>                            |    |   |                      |
| 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               |
| <b>Ohio Career Field name: Hospitality and Tourism (10)</b>                           |    |   |                      |
| 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*              |
| <b>Ohio Career Field name: Human Services (11)</b>                                    |    |   |                      |
| 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               |
| <b>Ohio Career Field name: Information Technology (12)</b>                            |    |   |                      |
| 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               |
| <b>Ohio Career Field name: Law and Public Safety (13)</b>                             |    |   |                      |
| 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*              |
| <b>Ohio Career Field name: Manufacturing Technologies (14)</b>                        |    |   |                      |
| 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               |
| <b>Ohio Career Field name: Marketing (15)</b>   |    |   |                      |
| States' Career Clusters Initiative name: Marketing                                    |    |   |                      |
| Acquisition and Logistics   | S0 | Introduction to Marketing (CC)                | 040805* <sup>2</sup> |
|   |    | 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* <sup>2</sup>             |
|   |    | 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<br>[NEW in FY2011]        |
|   |    | Wealth Management (PC)                                    | 042015<br>[NEW in FY2011]        |
|   |    | Principles of Business (PC)                               | 042020<br>[NEW in FY2011]        |
|   |    | Principles of Economics (PC)                              | 042025<br>[NEW in FY2011]        |
|   |    | Principles of Marketing (PC)                              | 042030<br>[NEW in FY2011]        |
|   |    | Principles of Finance (PC)                                | 042035<br>[NEW in FY2011]        |
|   |    | Principles of Management (PC)                             | 042040<br>[NEW in FY2011]        |
| Marketing Communications  | S3 | Business Strategies (PC)                                  | 042045<br>[NEW in FY2011]        |
|   |    | Introduction to Marketing (CC)                            | 040805* <sup>2</sup>             |
|   |    | 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* <sup>2</sup>             |
|   |    | Business and Management Foundations (FC)                  | 140001*                          |
|   |    | Marketing Management (PC)                                 | 040810                           |
|   |    | Finance Career Field Course (CC)                          | 140025*                          |
|   |    | Introduction to Business and Administrative Services (CC) | 140050*                          |
| <b>Ohio Career Field name: Transportation Systems (16)</b>                          |    |   |                                  |
| 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<br>[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<br><i>[Eliminated in FY2011]</i> | Entertainment Marketing<br><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<br><i>[Eliminated in FY2011]</i> | Marketing Technology<br><i>[Eliminated in FY2011]</i>                 | 36EA   | Marketing Technology   | n/a               | 50                | 50                |
| n/a              | 040830<br><i>[Eliminated in FY2011]</i> | Marketing Technology<br><i>[Eliminated in FY2011]</i>                 | 36MB<br><i>[Eliminated in FY2010]</i>                                    | Marketing Technology<br><i>[Not used in FY2010 calculations]</i> | n/a               | n/a               | 50                |
| L2               | 041118<br><i>[Eliminated in FY2011]</i> | Hospitality and Tourism<br><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<br><i>(Eliminated in FY2011)</i> | Diversified Health Occupations (DHO)<br><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<br><i>[Eliminated in FY2011]</i>                                      |                                       |  |     |     |     |
| L0  | 090203<br><i>[Eliminated in FY2011]</i> | Culinary Arts and Food Service Management<br><i>[Eliminated in FY2011]</i> | 34EA                                  | Food Production, Management, and Service   | n/a | 64  | 64  |
| L1  | 090205<br><i>[Eliminated in FY2011]</i> | Hotels and Resorts<br><i>[Eliminated in FY2011]</i>                        | 40EA                                  | Hospitality and Facility Care Services   | n/a | n/a | 63  |
| L1  | 090205<br><i>[Eliminated in FY2011]</i> | Hotels and Resorts<br><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<br><i>[Eliminated in FY2010]</i> | Information Support and Technology<br><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<br><i>[Eliminated in FY2010]</i> | Network Systems<br><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<br><i>[Eliminated in FY2010]</i> | Programming and Software Development<br><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<br><i>[Eliminated in FY2010]</i> | Interactive Media<br><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<br><i>(Not used in FY2010 calculations)</i>            | 69  | n/a | 69  |
| T3  | 170302                                  | Auto Technology  | 10DA                                  | Auto Mechanics<br><i>(Not used in FY2010 calculations)</i>                       | 67  | n/a | 67  |
| n/a | 170700<br><i>[Eliminated in FY2011]</i> | Commercial Art Occupations<br><i>[Eliminated in FY2011]</i>                | 18EA                                  | Visual Communications Art  | n/a | 61  | 61  |
| n/a | 170700<br><i>[Eliminated in FY2011]</i> | Commercial Art Occupations<br><i>[Eliminated in FY2011]</i>                | 18MA                                  | Visual Communications  | n/a | 58  | 58  |
| n/a | 170900<br><i>[Eliminated in FY2011]</i> | Commercial Photography Occupations<br><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<br><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<br><i>[Eliminated in FY2011]</i> | Graphic Occupations<br><i>[Eliminated in FY2011]</i>                 | 38EA  | Graphic Communications   | n/a | 61                   | 61                   |
| B2  | 171900<br><i>[Eliminated in FY2011]</i> | Graphic Occupations<br><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<br><i>(Not used in FY2010 calculations)</i> | 63  | n/a                  | 63                   |
| n/a | 179960<br><i>[Eliminated in FY2011]</i> | Diversified Cooperative Trade (DCT)<br><i>[Eliminated in FY2011]</i> | Any of the tests for subject codes<br>17XXXXX | Any of the tests for subject codes<br>17XXXXX                          | n/a | As<br>Applic<br>able | As<br>Applic<br>able |
| L0  | 330005<br><i>[NEW in FY2010]</i>        | Culinary and Food Service Operations<br><i>[NEW in FY2010]</i>       | 34EA  | Food Management, Production and Service                                | 64  | 64                   | 64                   |
| E0  | 350201<br><i>[NEW in FY2010]</i>        | Early Childhood Education<br><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<br><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<br><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<br><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<br><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<br><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)<br><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)  | √                       | √  |

| <b>Subject Code</b> | <b>Subject Title</b>                     | <b>EMIS Code</b> | <b>CTE Industry Assessment Name</b>   | <b>EMIS FY2009 Yearend (N)</b> | <b>EMIS FY2010 Yearend (N) AND FY2011 March (D)</b> |
|---------------------|--|------------------|---|--------------------------------|---|
| 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<br>[Eliminated in FY2010]  | 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)<br>[Eliminated in FY2011]              | 440       | State Tested Nurse Aide Examination (STNA) – Ohio Department of Health   | √                       | n/a  | n/a              |
| 070998       | Diversified Health Occupations (DHO)<br>[Eliminated in FY2011]              | 460       | Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health<br>[Eliminated in FY2010]  | n/a                     | n/a  | n/a              |
| 070998       | Diversified Health Occupations (DHO)<br>[Eliminated in FY2011]              | 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<br>[Eliminated in FY2010]  | 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<br>[Correction]                        | 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)<br>[Eliminated in FY2011] | 440       | State Tested Nurse Aide Examination (STNA) – Ohio Department of Health   | √                       | n/a  | n/a              |
| 079960       | Diversified Cooperative Health Occupations (DCHO)<br>[Eliminated in FY2011] | 460       | Diversified Health Occupations – State Tested Nurse Aide Examination (STNA) – Ohio Department of Health<br>[Eliminated in FY2010]  | n/a                     | n/a  | n/a              |
| 079960       | Diversified Cooperative Health Occupations (DCHO)<br>[Eliminated in FY2011] | 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<br>[Eliminated in FY2011]         | 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)<br>[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<br>[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         |

| <b>Subject Code</b> | <b>Subject Title</b>                       | <b>Female or Male</b> |
|---------------------|--|-----------------------|
| 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                |

| <b>Subject Code</b> | <b>Subject Title</b>                                 | <b>Female or Male</b> |
|---------------------|--|-----------------------|
| 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).

| <b>CTE Program Code</b> | <b>CTE Program Name</b>                           | <b>Female or Male</b> |
|-------------------------|---|-----------------------|
| 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                |

| <b>CTE Program Code</b> | <b>CTE Program Name</b>                 | <b>Female or Male</b> |
|-------------------------|---|-----------------------|
| 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                  |

| <b>CTE Program Code</b> | <b>CTE Program Name</b>       | <b>Female or Male</b> |
|-------------------------|-------------------------------|-----------------------|
| 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           | √      | √      | √      |

| <b>Subject Code</b> | <b>Subject Title</b>                                 | <b>Female or Male</b> | <b>FY2009</b> | <b>FY2010</b> | <b>FY2011</b> |
|---------------------|--|-----------------------|---------------|---------------|---------------|
| 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           | √             | √             |