



# Measuring Technical Skill Attainment of Florida's Career and Technical Education Students

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# The Law

Secondary and Postsecondary Core Indicator of Performance requirements in Perkins IV:

*“....student attainment of career and technical skill proficiencies, including student achievement on technical assessments, that are aligned with industry recognized standards, if available and appropriate.” (Section 113)*

# OVAE's Expectations

*Final Desired Approaches presented by Federal staff at the June 2007 Data Quality Institute*

- **Gold** – An external 3rd party (eg. ASE) assessment of state/industry/postsecondary agreed upon standards (clusters/pathways)
- **Silver** – Teacher/Instructor developed assessment of state/industry/postsecondary agreed upon standards (clusters/pathways) meeting state established validity and reliability guidelines

*Interim Approach*

- **Bronze** – No longer available after phase-in period includes other indicators of technical skill attainment such as GPA, course completion, program completion, etc.

## Technical Skill Attainment Gold Standard Assessments (As noted in Florida's State Plan )

The following *Gold Standard* assessments will be acceptable in any case throughout the plan period:

- federal or state regulatory agency-developed assessment instrument leading to licensure (FAA, Dept. of Health, DBPR)
- industry-developed assessment instrument leading to industry certification (ASE, HVAC Excellence)
- industry-developed end of program assessments (NATEF)
- proprietary company-developed assessment instrument leading to certification of proficiency in one or more company product (Microsoft, CISCO)
- third-party-developed assessment instrument (NOCTI, ASK Institute, Brainbench)

# Technical Skill Attainment Inventory Selection Criteria

The criteria for adoption of an evaluation instrument are:

- a valid and reliable measurement directly related to the learning outcomes of an occupational program and considered occupationally specific[1].
- The instrument requires students complete a minimum of 150 hours of instruction (secondary and clock hour certificate programs) or the equivalent of 3 credit hours

*[1] An occupationally specific evaluation instrument is an assessment indicating that the recipient has achieved proficiency in technical skills directly related to the goal or goals of one or more occupations listed in the SOC. An instrument that is generic to a number of occupations (e.g., OSHA, CPR) is not considered to be occupationally specific.*

# Florida's Measurement Approaches

(As noted in Florida's State Plan)

The following Bronze Standard non-assessment indicators may be acceptable during the first three years (2008-2009, 2009-2010, 2010-2011) of the five-year plan, **but may not be used if a *Gold Standard* assessment is available:**

- student completion of an occupational completion point (secondary and postsecondary clock hour programs)
- student completion of certain percentage of program hours required with a grade point average of 2.5 or higher (postsecondary college credit programs)

# Florida's Technical Skill Attainment Phase-In (As noted in Florida's State Plan)

- **2012-** The Division will report only *Gold Standard* assessments\* to measure technical skill attainment.
- Prior to 2012, the *Gold Standard* technical skill assessment inventory will be progressively expanded based on Career Clusters.

\* Florida may continue to utilize the *Bronze Level* approach only if it is not possible to identify *Gold Standard* assessments for every career and technical education program.

# Technical Skill Attainment Inventories

- 3 Inventories – Secondary, Postsecondary Level, Postsecondary Adult Level posted at [http://www.fldoe.org/workforce/perkins/perkins\\_resources.asp](http://www.fldoe.org/workforce/perkins/perkins_resources.asp)
- Inventories contain only “Gold Standard” evaluation instruments as defined in Florida’s Five-Year State Plan
- Secondary inventory will contain all industry certifications on the approved CAPE Funding List

# The Population of Students Measured

## Secondary Level

- **Concentrators** –A secondary student who has earned three (3) or more credits in a single career and technical education program, or two (2) credits in a single CTE program, but only in those programs where 2 credit sequences at the secondary level are recognized by the State and/or its local eligible recipients.

## Postsecondary Level

**Concentrators** –A postsecondary student who completes at least one-third of the academic and/or technical hours in a college credit or clock hour career and technical education program that terminates in the award of an industry recognized credential, certificate or degree.

# Florida's Measurement Definitions

(as noted in the State Plan)

## **SECONDARY (2S1):**

**Numerator:** Number of senior CTE concentrators who 1) earned an industry certified credential through a third party assessment, or 2) successfully passed a state-approved end-of-course or end-of program assessment as demonstrated by an Occupational Completion Point.

**Denominator:** Number of senior CTE concentrators who have left secondary education in the reporting year.

## **POSTSECONDARY LEVEL (1P1)**

**Numerator:** Number of CTE concentrators who 1) earned an industry certified credential through a third party assessment or 2) earned 75 percent of the program hours required with a grade point average of 2.5 or higher.

**Denominator:** Number of CTE concentrators in the reporting year.

# Technical Skill Attainment Inventory Selection Criteria

Internal Approval Procedure:

An evaluation instrument will be validated if:

- the instrument is occupationally specific to one or more occupations listed in the 2000 Standard Occupational Classification (SOC) System and is listed in the current statewide Targeted Occupations List (TOL); and
- The instrument requires students complete a minimum of 150 hours of instruction (secondary and clock hour certificate programs) or the equivalent of 3 credit hours (proposed for college credit programs)

# RESOURCES

Florida Department of Education:

[http://www.fldoe.org/workforce/perkins/perkins\\_home.asp](http://www.fldoe.org/workforce/perkins/perkins_home.asp)

**General Perkins and Technical Skill Attainment Inquiries:**

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