



CTECS Technical Assessment System Design Model

The Career and Technical Education Consortium of States (CTECS) (formerly VTECS) has a 50-year history of providing the Career and Technical Education community instructional and assessment development resources and services including: Occupational analysis; standards-based test development; test preparation guides; online test administration; statistical analysis of test results; and workshops for developing standards and writing items.

The CTECS model for designing a technical assessment system involves following a step-by-step process that assures valid, defensible, psychometrically sound tests. It begins with the identification of a Business/ Industry/ Education Technical Advisor Committee and ends with a fully operational, field tested system. CTECS believes that assessment tools must be aligned to a set of measurable standards or competencies and that

items must meet rigorous quality guidelines. Each activity is conducted with these overriding criteria in mind. CTECS provides the level of service that works best for each client.

You can depend on our experience to:

train your staff to design and develop your assessment system,

facilitate your staff's work as they design and develop the system, or

develop the entire system for you.

No matter which level of service you choose, the result will be a practical, cost-effective solution to your assessment challenges.

While every assessment system is unique, the development will include the seven activities described on the back of this page.



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1

Initial Organizational Steps

Establish clear avenues of communication between CTECS and the client and identify the Business/Industry/Education Technical Advisory Committee (TAC) subject matter experts who will guide and approve each step of the process.

2

Identify/Adapt/Develop/Validate a Skill Standards List

Identify existing skill/standards or competency lists from CTECS' database and from the client's resources. Research these resources to create a list that can be reviewed and validated by the TAC.

3

Item Development and Modification

Develop an item bank blueprint and identify existing items from CTECS' database and from the client's resources. Review the identified items and develop additional items.

4

Validation of the Items

Review all items for accuracy, relevance, and alignment with the standards. The TAC performs this activity and has final approval on all items.

5

Provide Technical Assistance

Develop instructional manuals for the administration of the assessment instrument.

6

Assessment Development

Develop an assessment blueprint based on the levels of criticality assigned to the standards during review and analysis.

7

Field Test Administration, Scoring and Reporting

Publish the assessment(s) via a web-based system; score the test(s); report the results. Provide the customary item analysis data.

Call or visit us online!

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