



PSI: Test Development Services

FormCast™ Test Generation System

PSI uses a proprietary automated test generation system called FormCast™ to produce equivalent alternate examination forms from a bank of test items. At the heart of the FormCast™ test generation system is a powerful algorithm for test form assembly that can be used to generate a virtually infinite number of unique equivalent forms, making it possible to administer a different test to each examinee.

PSI is recognized as a leader in providing unique solutions and services to corporations, government regulatory agencies and professional associations. PSI has earned an outstanding reputation for responsive customer service and superior products. PSI's team of test development professionals, customer service representatives, proctors, and project managers are well recognized for their subject matter expertise and commitment to the success of your program. We offer end-to-end solutions from test development to administration to results processing to data management.

Active Participation:

ATP- Association of Test Publishers

SIOP- The Society for Industrial and Organizational Psychology

CLEAR- Council on Licensure Enforcement and Regulation

NOCA- National Organization for Competency Assurance



BENEFITS

- Scientifically proven method for assembling alternate examination forms that produce equivalent scores.
- Statistically robust model for practical use in a wide range of settings, unlike more complex models used in other systems requiring large sample sizes for stable item calibration.
- Preserves professional examination standards while maintaining a high level of security for your items.
- Provides a unique equivalent examination for each examinee.
- Substantially reduces opportunities for cheating and item exposure.
- Ensures the success of your high stakes exam.



FEATURES

FormCast™ Test Generation System

- Accommodates a range of configurable test assembly models (fixed form, scattered fixed form, and random parallel form).
- Unique FormCast™ algorithm balances content and psychometric specifications to assemble forms that are valid, reliable, and equivalent to established standards.
- Ensures good rotation of items across alternate forms (unlike some systems that tend to over-use items with certain statistical properties).
- Manages item banks, with the capability to import and edit item content, statistics, and taxonomy information.

Scientific Publications Support:

- "Licensing and Certification Test Construction: A Balancing Act," an article authored by Dr. Wade Gibson and PSI's Chief Science Officer John Weiner published in the CLEAR Exam Review, Winter Volume, 1996.
- "Generating Random Parallel Test Forms Using CTT in a Computer-based Environment" was published in the Journal of Educational Measurement, Winter 1998, Volume 35, No. 4.
- The FormCast™ method is further supported by an independent study conducted by researchers at Michigan State University (Oswald, et al, 2005), "Extending a Practical Method for Developing Alternate Test Forms Using Independent Sets of Items," Organizational Research Methods, Vol. 8, No. 2.

ABOUT PSI

PSI has over 60 years of experience with providing solutions to corporations, professional associations and government regulatory agencies. We offer a comprehensive solutions approach from test development to delivery to results processing including pre-hire employment selection, managerial assessments, licensing and certification tests, license management services and professional services. More information is available at www.psonline.com.

