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Standards for Accreditation of Testing Programs
INTRODUCTION

The Buros Center for Testing is the world’s premier institution for the evaluation and review of tests. The Buros Center for Testing Standards for Accreditation of Testing Programs are intended for use in accreditation of testing programs that are proprietary or otherwise not commercially available. The Standards for Accreditation of Testing Programs provide transparency regarding the process by which Buros evaluates testing programs for accreditation. More information regarding our accreditation process is available under in the Psychometric Consulting section of our website (buros.org/psychometric-consulting).

The Standards for Accreditation of Testing Programs are highly consistent with the current leading professional standards for testing: the 2014 Standards for Educational and Psychological Testing, developed by the American Educational Research Association, the American Psychological Association, and the National Council on Measurement in Education. The current document synthesizes key requirements of the more comprehensive Standards for Educational and Psychological Testing in a format intended to facilitate the Buros accreditation process. Although the Standards for Accreditation of Testing Programs are not explicitly intended to guide test development per se, testing programs may find these standards useful for such purposes as well.

Testing programs seeking accreditation by Buros may wish to review the Standards for Accreditation of Testing Programs in conjunction with their application or in determining whether to seek accreditation. The outcome of the evaluation will be based on a holistic review of the extent to which the testing program demonstrates meeting these standards. Programs are not required to meet every standard in order to receive accreditation. Testing programs completing the accreditation process will receive a report identifying ways in which the program might be improved and an explanation of why accreditation was or was not granted. Providing formative feedback is an important component of our accreditation process.

A wide variety of testing programs may seek accreditation from Buros. Credentialing tests and higher education assessment are the most common applications, but the standards are intended to be used with virtually any type of testing program. For testing programs with certain features, other specific requirements for may apply. In such instances, Buros may incorporate additional relevant standards in the evaluation process and will inform clients when additional evaluative criteria apply.

The Buros Center for Testing is perhaps best known for its test reviews of commercially available tests and assessments in the *Mental Measurements Yearbook* series. Publishers of commercially available tests and assessments are invited to submit their products for review consideration. More information regarding reviews of commercially available tests is available in the Test Reviews and Information section of our website. Although the *Standards for Accreditation of Testing Programs* are not explicitly intended as standards for *Mental Measurements Yearbook* reviews, test publishers, reviewers, or readers may find it to be a useful resource, along with the *Standards for Educational and Psychological Testing*. 
SECTION 1:
THE TESTING PROGRAM

Purpose of the Testing Program

1.1 The testing program should clearly define the purpose of the testing program, the constructs to be assessed, and the population for which the test is appropriate.

1.2 The testing program should explicitly outline how test scores and other test results should be used and interpreted, as well as describe limitations of these interpretations.

1.3 The testing program should provide potential test users with a description of anticipated unintended or inappropriate test score uses and interpretations.

1.4 If a credential, certificate, or similar recognition is awarded based on exam performance, the scope and limitations of such recognitions should be made clear to relevant parties.

Validity

1.5 The defined purpose of the test scores should be supported by a documented validity framework. The validity framework should provide multiple sources of validity evidence in support of each intended use and interpretation of scores and should be integrated to provide a coherent justification for the intended uses and interpretations of the test scores.

1.6 The testing program should include an ongoing program of validity research broadly defined by which it continually gathers and considers a variety of evidence to support each intended use and interpretation of the test scores. The testing program should provide evidence that the results of the full body of validity research, including potentially unfavorable results, are used to make improvements to the testing program.

Structure and Resources of the Testing Program

1.7 The testing program should demonstrate that the relationship between the testing program and any related association, organization, or agency (e.g., licensing board) ensures the independence of the testing program and its related functions.

1.8 If the testing program provides both education and testing, it should administratively and financially separate the educational and testing functions related to any high stakes decisions made about examinees.

1.9 The testing program should demonstrate that its staff possesses the knowledge, skills, and professional credentials necessary to conduct the testing program and/or that it has made use of non-staff consultants and professionals to sufficiently supplement staff knowledge and skills.
SECTION 2:
EXAMINATION CONTENT

Content Framework and Test Specifications

2.1 The test developer should provide clear documentation of the method used to define the content included in the exam. Included in this documentation should be detailed description and evidence of any analyses or judgmental procedures used at each major step of the test development process, along with results of such processes.

2.2 The knowledge, skills, abilities, and judgments to be assessed by the exam should be determined through a psychometrically sound job/practice analysis or other comparable content specification methodology.

2.3 The panel of subject matter experts providing judgments for the job analysis or content specification should be demographically and technically representative and possess significant experience with the intended examinee population and the content and skills measured.

2.4 The test content framework should be developed using a psychometrically sound methodology to translate results from the job analysis or content specification into a comprehensive list of the knowledge, skills, abilities, and cognitive (or non-cognitive) dimensions required for and important to the construct(s) of interest.

2.5 Detailed test specifications should be derived consistent with the test content framework and should consist of, at a minimum, the relative percentages or number of items devoted to each content area, item format, and cognitive (or non-cognitive) dimension.

2.6 The testing program should systematically and periodically evaluate practices or content in the tested domain(s) to assure the test content framework remains current in accordance with the intended use and interpretation of exam scores.

Item Development and Selection

2.7 The testing program should provide clear documentation of the procedures used in the development, review, and selection of items.

2.8 Exam items should be written by qualified persons who have knowledge of the content domain and have participated in adequate training on item writing relevant for the exam format and content.

2.9 All items should undergo a rigorous review process conducted by qualified and adequately trained persons to evaluate item content and readability, appropriateness of the cognitive level, and the item classification relative to the test specifications.

2.10 The testing program should have a procedure in place to maintain a sufficiently large and adequately balanced item pool that appropriately represents the test specifications.
SECTION 3: FORM DEVELOPMENT AND REVIEW

Pilot Testing

3.1 The testing program should normally pilot test any potential exam items to determine the psychometric adequacy of items to be included in the operational form(s).

3.2 The testing program should provide clear documentation of the procedures used to pilot test the exam items. The conditions under which the pilot data are gathered should be the same as those by which the operational items will be administered.

3.3 The testing program should provide clear documentation of the characteristics of the pilot test sample. The pilot sample should be of adequate size and representative of the intended population of examinees with respect to ability (on the construct being measured) and relevant demographic characteristics (e.g., gender, ethnicity, geographic location).

3.4 The pilot test stage should incorporate evaluation of examinees’ understanding of and interaction with test items, using methodology such as cognitive labs or statistical analysis as possible and relevant.

3.5 If the exam is computer/internet based, the pilot test process should include a test of the system capabilities, including capacity of the computer hardware and server.

Creation of Final Exam Forms

3.6 The testing program should provide clear documentation of the process used to assemble the final operational exam form(s) or, for programs without fixed forms of the examination, to select items for operational administration.

3.7 Psychometric analyses should be conducted with the pilot data to determine which items from the item pool should be included in the operational exam forms and to detect potential item bias.

3.8 Selection of items for inclusion on the final form(s) should incorporate consideration of the items’ psychometric properties, where possible, as well as correspondence to the test specifications.

3.9 The alignment between the final exam form(s) and the test specifications should be objectively evaluated and documented. Testing programs without fixed exam forms should also conduct relevant evaluations of the correspondence between the test specifications and the results of the item selection algorithm as utilized in operational administration.
Psychometric Review of Operational Tests

3.10 The testing program should regularly conduct psychometric reviews of all operational items, whether using classical scoring or item response theory. Evaluation and documentation of item performance should normally include item discrimination, item difficulty, and differential item functioning statistics.

3.11 At least annually, the testing program should conduct a psychometric review of its examination form(s). The review should include the following summary statistics for all examination form(s) administered since the last reporting period:
   a. number of examinations administered;
   b. exam score descriptive statistics, including mean, median, standard deviation, and range;
   c. reliability, overall and for key points on the score scale, and decision consistency coefficients (if applicable);
   d. when applicable, the number and percentage of examinees passing the examination or classified into performance categories, including separate reporting for original examinees and for retakes;
   e. model fit (e.g., if using IRT for data calibration).

3.12 The testing program should provide documentation of the psychometric reviews and any actions that were taken based on the results.

Comparability across Forms, Formats, and Language

3.13 If the testing program utilizes multiple exam forms, the process by which equivalence across forms is evaluated and ensured should be clearly documented.

3.14 If the examination is administered in more than one format, evidence should be collected and evaluated to ensure equivalence with other examination formats and to ensure examinee performance will result in reliable and valid interpretation of scores across formats.

3.15 If a test is adapted from one language to another, the testing program should provide evidence supporting intended interpretations of test scores for the adapted exam version. The testing program should provide clear and detailed documentation of the process by which the adapted version was created and the qualifications and training of those completing the adaptation.

3.16 If adapting an exam from one language or location, the testing program should consider the impact of linguistic and cultural differences related to relevant details of exam design, content, or administration, with the consultation of personnel competent in the languages and culture of both the original and adapted version of the examination.
SECTION 4:
EXAMINATION ADMINISTRATION

Eligibility and Application

4.1 Eligibility requirements should be documented and should clearly specify necessary qualifications or characteristics of the population for whom the test is intended.

4.2 The testing program should provide clear documentation of the process by which exam candidates apply to take the exam, including instructions given to applicants, and should provide clear documentation of its procedures for reviewing applications, by which it assures that all candidates who are permitted to sit for the exam meet the eligibility requirements.

4.3 In advance of testing, the testing program should provide to examinees information about the purpose of the test, intended use of scores, the scope of test content, testing procedures and format, scoring criteria, and available alternative formats, such as different languages.

4.4 The testing program should have in place a reasonable re-take policy specifying under what conditions and after what period of time an examinee may re-take the exam.

Administration Sites

4.5 When delivered as paper-based examinations, exams should be scheduled far enough in advance to allow for timely shipment of supplies to administration sites or other necessary preparation of materials.

4.6 The testing program should offer the examination at a sufficient number of sites to ensure reasonable access to the exam administration site for as large a percentage of candidates as is practicable, taking into account security concerns.

4.7 If the testing program is administering a computer-based or internet-based exam, the testing program should ensure the administration sites conform to necessary technological requirements. When multiple technological device types are used for test administration, evidence for comparability should be studied and documented.

4.8 Sites chosen for administering examinations should conform to legal requirements for safety, health, and accessibility for all qualified examinees and should maintain the integrity of scores and security. Requirements at each site include but are not limited to:
   a. accessibility for qualified examinees with disabilities, in accordance with appropriate legislation, whether it be at the main site or an alternative site meeting all other requirements;
   b. adherence to all fire safety and occupancy codes of the jurisdiction in which they are located;
   c. a quiet, well-lit environment with minimal distraction;
   d. sufficient spacing between each examinee or other appropriate and effective methods to preclude any examinee from viewing another examinee’s test responses;
   e. acoustics that allow each examinee to hear instructions clearly, using an electronic audio system if necessary;
   f. ventilation and temperature appropriate for health and comfort of examinees.
Test Administrators and Proctors

4.9 Responsibilities, duties, and qualifications of test administrators and monitors/proctors should be directed toward assuring standardized, secure examination administration and fair and equitable treatment of examinees.

4.10 The testing program should provide documentation of the responsibilities and minimum criteria for approval of test administrators and monitors/proctors.

4.11 The testing program should provide suitable training for test administrators and monitors/proctors to enable them to fulfill the above responsibilities and adequately prepare them to deal with issues that may arise during administration, including security concerns.

4.12 The number of approved monitors/proctors assigned to a test administrator should be sufficient to allow each examinee to be observed and supervised to assure conformance to standardization and security requirements.

4.13 The testing program should have administrators or monitors/proctors sign a confidentiality statement assuring they will not reveal or reproduce any of the test information.

Procedures for Administration

4.14 The testing program should provide each test administrator with a manual detailing the procedures and requirements for all aspects of the examination administration process.

4.15 The test administration should be conducted in a standardized fashion according to the procedures documented in the test administration manual. Any disruptions to the procedure should be documented by the test administrator/proctor and reported to the testing program.

4.16 The examinee should be presented with detailed instructions specifying how to proceed through the exam and clearly stating any rules or regulations the examinee is expected to follow during the administration, including enforced policies regarding personal technology devices such as phones.

4.17 The testing program should establish and enforce procedures by which examinee identity is verified when taking the test to prevent intentional or unintentional identification errors.

Record Keeping

4.18 The testing program should provide evidence that each examinee’s examination results are held at the appropriate level of confidentiality.

4.19 The testing program should specify the length of time that records of test administrations and score reports will be maintained. The specific length of time should be sufficient for reasonably anticipated needs, such as score appeals, and in accordance with applicable regulations or laws.

4.20 Records maintained by testing programs should identify the examination form and/or version and specify the date the examination was taken for each examinee.
SECTION 5:
FAIRNESS AND DIVERSITY

Accommodations

5.1 The process by which the testing program determines eligibility of candidates to receive accommodations should be clearly documented and compliant with the guidelines set forth by the Americans with Disabilities Act, the Individuals with Disabilities Education Act, or other relevant legislation, as applicable.

5.2 Sufficiently in advance of test administration, the testing program should give clear instructions to candidates about the eligibility criteria for receiving accommodations, which accommodations are allowable, the process by which they may apply for accommodations, and the documentation that must accompany accommodations requests.

5.3 The testing program should enact consistent policies to ensure eligible applicants receive appropriate accommodations and provide rationale for disallowing specific accommodations thought to interfere with accurate measurement of the intended test construct. Procedures by which candidates who are denied accommodations requests may appeal the decision should be specified and shared with such candidates.

5.4 Where accommodations requiring additional administration personnel are provided, arrangements should be such that neither the security of the examination contents nor the validity of score interpretations is compromised.

Fairness for Diverse Groups

5.5 Throughout the test development process, samples should include sufficiently large numbers of examinees from relevant demographic groups within the population of interest, potentially by oversampling these groups if necessary for adequate subgroup sample sizes.

5.6 The testing program should guard against bias by taking steps throughout the process to evaluate and reduce the influence of extraneous factors on test scores or item responses, using quantitative and judgmental methods.

5.7 The testing programs should conduct all steps of the process to promote valid score interpretations for test takers from diverse backgrounds and provide evidence to support claims that the test can appropriately be used with diverse groups.

5.8 Panels of experts providing judgements in various stages of exam development should be sufficiently diverse as to identify and prevent potential test or item bias related to culture, gender, language, disability, etc.
SECTION 6: SCORING AND REPORTING

Scoring and Scaling

6.1 The testing program should have clear documentation describing the procedures used for scoring an exam, including procedures to calculate raw scores and to verify the accuracy of exam scores.

6.2 For paper-based tests, materials containing examinees responses should be shipped to the testing program or scoring facility in a timely and secure manner.

6.3 If the testing program utilizes raters or subjective scorers for any part of the exam, the testing program should provide adequate training for the scorers and have in place a process by which the accuracy of these scores is checked on an ongoing basis.

6.4 Clear documentation should be provided for all procedures related to scaling of the exam scores, including development of the scale, procedures used to translate raw scores to the reporting scale, and rationale for the scaling method.

6.5 The development of the score scale and the translation of raw scores to scale scores should be based on psychometrically sound procedures appropriate for the intended interpretation of test scores.

Determining Cut Scores

6.6 Where relevant, performance standards should be determined using an accepted standard-setting method appropriate for the exam and for which panelists receive adequate training.

6.7 Panelists should be provided with a clear description of the purpose of the standard-setting workshop, the intended use of the cut score(s) being estimated, the definition of the performance standard(s), and empirical data to evaluate the impact of their recommendations.

6.8 Standard-setting panelists should generally be subject matter experts who are familiar with the target population of examinees and the construct/content being assessed. Panelists selected to participate in the standard-setting workshop should be representative of the stakeholders who are qualified to make decisions about the required proficiency of examinees.

6.9 The procedure and results of the standard-setting workshop should be clearly documented, including the method used to determine the recommended cut score(s), the resulting cut score recommendations, and an estimate of variability in panelists’ recommendations. The final cut score(s) adopted and used in practice should also be clearly reported.
**Norm-Referenced Interpretation**

6.10 If the testing program utilizes norm-referenced reporting or interpretation of examinee scores, a thorough norming study should be conducted to collect appropriate data on which to base such score interpretation.

6.11 The selection of individuals included in the norming study should be based on psychometrically sound sampling procedures. The sample selected should be representative of the target population with respect to demographic and other relevant characteristics.

6.12 The norming study should be conducted in the same conditions under which the operational exam will be administered.

6.13 The documentation of the norming study should provide a clear description of the process, including a description of the sample, administration format, test dates, and results.

**Score Reporting**

6.14 The testing program should prepare score reports that include a guide to interpreting any scores reported (e.g., sub-scores in addition to total scores). Score interpretations presented in the guide should be in accordance with the test's defined purpose and intended uses of the scores.

6.15 The testing program should clearly describe the professional skills and qualifications required to interpret test results.

6.16 Examinees and test score users should be provided with adequate documentation to appropriately interpret scale scores.

6.17 The testing program should provide evidence of the reliability and/or precision of each score reported. If subscores are reported, the testing program should provide evidence of adequate reliability and precision of these subscores. Standard errors or other measures of uncertainty should be presented in a way that is understandable to readers.

6.18 The testing program should have a procedure in place by which score reports will be delivered to authorized recipients in a time frame specified.

6.19 If a testing program is considered to be high stakes for examinees, the testing program should have in place a formal appeals procedure by which examinees can appeal eligibility to take the exam or review their scores. This process should include a procedure by which exam scores will be investigated and scoring issues addressed. Test takers should have the opportunity to question the appropriateness of a keyed answer or scoring rubric.
SECTION 7:
EXAM SECURITY AND PRIVACY

Exam Material Security

7.1 The testing program should have effective procedures in place to protect the security of the exam items, forms, and administration records, whether physical or stored as data, at all stages of the process, and monitor these practices to detect potential breaches.

7.2 When tests are administered in paper format, security of the examination materials should be maintained in shipments to and from the administration site.

7.3 The examinations should be administered in a manner that maximizes the security of the exam contents. This set of procedures includes ensuring only the examinees and authorized proctors see the contents of the exam, before, during, and after administration.

7.4 For computerized exams, testing programs should establish and enforce precautions that effectively protect the security of the test materials and test items from unauthorized access.

7.5 The testing program should define procedures to be followed in any instance where the security of an examination or the integrity of scores is suspected to be compromised. Included should be specific procedures for identifying, handling, and reporting suspected or alleged cheating incidents, lost or stolen booklets, intentional or unintentional divulging of test items by examinees or administration personnel, or any other incidents perceived to have potentially damaged the security of the examination or to have reduced the credibility of examinees’ scores.

Security and Privacy of Examinee Data

7.6 The testing program should have effective procedures in place to protect the security and privacy of examinees’ personal information, responses, and scores at all stages of the process.

7.7 The testing program should provide documentation of procedures ensuring the confidential release of examinee scores to the examinee and other authorized persons or organizations (e.g., school, licensing agency), as indicated in the program’s policy documents.

7.8 For computerized exams, the testing program should provide for appropriate precautions that protect the security of any candidate responses, scores, or personal information as the information is transmitted or stored as data.