



CALIFORNIA COMMUNITY COLLEGES

Standards for Assessment Test Instrument
Review

2021

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Note: These standards and this document are under review and being updated.

1 **SECTION ONE: ASSESSMENT IN THE STUDENT EQUITY AND ACHIEVEMENT**
2 **PROGRAM**

3
4 Assessment is a holistic process through which each college collects information about
5 students in an effort to facilitate their success by ensuring their appropriate placement into
6 the curriculum. Assessment is one of the core services provided to students through the
7 Student Success and Support Program (SSSP) established under the Seymour-Campbell
8 Student Success Act of 2012. Per the Education Code, section 78211.5(a), the purpose of the
9 Act was “to increase California community college student access and success by providing
10 effective core matriculation services, including orientation, assessment and placement,
11 counseling, and other education planning services, and academic interventions.” [The Student](#)
12 [Equity and Achievement Program](#) replaced the SSSP program on June 29, 2020, but maintains
13 these same (and additional) aims.

14
15 Assessment is governed by California Education Code, sections 78210-78219 and California
16 Code of Regulations, title 5, sections 55502-55532. In addition to these statutes and
17 regulations, colleges must adhere to the standards provided in this document when
18 implementing and managing any assessment instrument used for course placement. The
19 Education Code and title 5 sections referenced are included in Appendix A. The core
20 requirements of placement assessments and their review are summarized below.

21
22 Per the California Code of Regulations (CCR), title 5, section 55522, high school performance data
23 should be used as the primary source for placement in English and mathematics (or quantitative
24 reasoning) for all U.S. high school graduates (or the equivalent). While districts are allowed to use
25 multiple measures in placing students, any form of assessment must be submitted to the
26 Chancellor’s Office for review and approval. Per Education Code 78213, a community college district
27 or college shall not use any assessment instrument related to Education Code 78213 without the
28 authorization of the board of governors. The board of governors may adopt [a list of authorized](#)
29 [assessment instruments](#) and shall establish an [advisory committee](#) to review and make
30 recommendations concerning all assessment instruments used by districts and colleges related to
31 Education Code 78213. California Code of Regulations (CCR), title 5, section 55522, further stipulates
32 that assessment tests and instruments for use in placing students in English, mathematics (or
33 quantitative reasoning), or English as a Second Language (ESL) courses must be approved by the
34 Chancellor’s Office, along with guidelines for their use by community college districts.

35
36 Education Code 78213 further defines assessment as “the process of gathering information about a
37 student regarding the student’s study skills, English language proficiency, computational skills,
38 aptitudes, goals, learning skills, career aspirations, academic performance, and need for special
39 services. Assessment methods may include, but not necessarily be limited to, interviews,
40 standardized tests, attitude surveys, vocational or career aptitude and interest inventories, high
41 school or postsecondary transcripts, specialized certificates or licenses, educational histories, and
42 other measures of performance.”

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43

44 Additionally, per Education Code 78213, assessment instruments must meet the following
45 requirements:

46 (1) Assessment instruments shall be sensitive to cultural and language differences between
47 students, and shall be adapted as necessary to accommodate students with disabilities.

48 (2) Assessment instruments shall be used as an advisory tool to assist students in the
49 selection of appropriate courses.

50 (3) Assessment instruments shall not be used to exclude students from admission to
51 community colleges.

52

53 California Code of Regulations (CCR), title 5, section 55522, further details what is required of
54 California Community Colleges:

55

- 56 • Use only assessment instruments approved by the California Community Colleges
57 Chancellor's Office, with the exception of limited field testing for new or alternative tests.
- 58 • Evaluate assessment instruments to meet content validity, cut score validity, minimization of
59 bias, reliability, and disproportionate impact standards defined by the Chancellor's Office.
- 60 • Implement a plan to address any disproportionate impact identified, in consultation with the
61 Chancellor's Office.
- 62 • Adopt and clearly communicate procedures regarding the college's sample test preparation,
63 placement decisions, and retest policies.
- 64 • Use assessment instruments solely for the purpose for which they were developed and for
65 which purposes they have been validated.
- 66 • Prohibit use of assessment instruments to exclude a student from admission to the college,
67 from any particular course, or educational program, except in the case of nursing programs
68 or special part-time or full-time students under Education Code section 76002, based on an
69 assessment that involves multiple measures and complies with title 5.
- 70 • Any placement decision must be supported by data and validated to ensure that no tool or
71 measure is being used to preclude students from enrolling in a course they have a legal right
72 to access.
- 73 • Placement practices should be designed to fulfill the requirements of title 5 § 55522 and §
74 55522.5.

75

76 Title 5 further requires students with disabilities to be provided necessary accommodations (section
77 55526(a)). In addition, title 5 addresses student responsibilities (section 55530) and institutional
78 responsibilities (section 55531), including assessment, as well as exemption policies for assessment
79 and other services (section 55532) that colleges may choose to implement.

80

81 These state regulations provide the context for establishing the standards for assessment
82 review. A test that provides information gathered to make course placement decisions
83 regarding individual students must be submitted for approval from the Chancellor's Office to
84 ensure its validity, reliability, and fairness (freedom of bias).

85

86 **The Assessment Instrument Approval Process: Broad Overview**
87

88 The ultimate responsibility for the validity and successful use of assessment instruments and
89 procedures and resulting course placement rests with local colleges. Approval of an
90 assessment instrument by the Chancellor’s Office allows a college to use the instrument;
91 however, approval does not automatically endorse **how** a local college uses the test. Each
92 college must sufficiently document that the test is used appropriately, regardless of whether
93 the test has been created by a second-party publisher or was locally developed or managed.
94

95 Any test used to assist with the appropriate placement of students into different levels of
96 instruction, classes, or programs must receive approval from the Chancellor’s Office. Although
97 assessment is broadly defined in Education Code (see above), these standards focus largely
98 on tests specifically, although guidance is also provided for other measures used in placement
99 decisions. The Standards for Educational and Psychological Testing (2014; hereafter referred
100 to as Joint Standards) define a test as “an evaluative device or procedure in which a sample of
101 an examinee’s behavior in a specified domain is obtained and subsequently evaluated and
102 scored using a standardized process.”
103

104 When requesting approval of a test instrument, second-party publishers and colleges locally
105 developing or managing a test must take the following steps:
106

- 107 1. Compile and submit information on assessment instruments to the Chancellor’s Office.
- 108 2. Review the preliminary approval recommendation from the Chancellor’s Office and
109 respond to any questions or requests for additional information.
- 110 3. Review the final report regarding the determination of approval and prepare an
111 appeal to determination, if needed.
- 112 4. Continue to collect and document the validity and the impact of using the instrument.
113

114 Tests that have not received approval from the Chancellor’s Office may **not** be used to place
115 students. They may, however, be used on an experimental or pilot basis, such as to conduct
116 research needed to obtain approval, or they may be used to assess student progress.
117

118 The remainder of this document provides standards for the review of test instruments. While
119 these standards define the criteria for judging the acceptability of an instrument, they should
120 not be considered complete instructions for test approval and validation, nor should they be
121 used as the only guidance needed to perform the necessary documentation.
122

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123

124 Applicants for approval are strongly urged to identify experienced researchers, psychometricians,
125 and other relevant experts to assist them in conducting the research and providing the necessary
126 information required in the approval process. It is also highly recommended to become familiar
127 with the Standards for Educational and Psychological Testing (2014), the [Code of Fair Testing](#)
128 [Practices in Education \(2004\)](#) and the [Uniform Guidelines for Employee Selection Procedures](#)
129 [\(1978\)](#).

1 **SECTION TWO: STANDARDS FOR THE EVALUATION OF TEST INSTRUMENTS**

2
3 **National Standards Governing the Evaluation of Test Instruments**

4
5 The [Standards for Educational and Psychological Testing](#) (2014; hereafter referred to as Joint
6 Standards) represent the joint efforts of the [American Educational Research Association](#)
7 [\(AERA\)](#), the [American Psychological Association \(APA\)](#), and the [National Council on](#)
8 [Measurement in Education \(NCME\)](#) to establish guidelines and criteria for the development,
9 use, and evaluation of tests. The Joint Standards are intended to apply to a wide range of test
10 instruments and procedures that sample, evaluate, and score an individual’s behavior
11 through a standardized process. As noted above, the Joint Standards (p. 183) define a test as
12 “an evaluative device or procedure in which a sample of an examinee’s behavior in a specified
13 domain is obtained and subsequently evaluated and scored using a standardized process.”
14

15 The Joint Standards is the primary guidance document for assessment and measurement
16 professionals in the United States and many other countries worldwide. It has been
17 referenced in federal law and cited in Supreme Court and other judicial decisions, where it
18 has been recognized as setting the gold standard for the testing profession. Given the
19 document’s recognized authority on tests and testing practices, the Joint Standards also
20 serves as the primary reference for this document (the CCC Assessment Standards).
21

22 Two additional reference documents have guided the development of the CCC Assessment
23 Standards: the [Code of Fair Testing Practices in Education \(2004\)](#) and the [Uniform Guidelines](#)
24 [for Employee Selection Procedures \(1978\)](#), hereafter referred to as the EEOC Guidelines.
25

26 The Code of Fair Testing Practices was developed by the [Joint Committee on Testing Practices](#)
27 as a guide for professionals to help them meet “their obligation to provide and use tests that
28 are fair to all test takers” (p.3). The document is consistent with the Joint Standards but
29 focuses more narrowly on testing in education and presents guidelines separately for test
30 developers and test users.
31

32 The EEOC Guidelines developed by the [Equal Employment Opportunity Commission \(EEOC\)](#)
33 were considered in the development of the CCC Assessment Standards for their specific focus
34 on the proper use of tests for fair and equitable selection purposes. In particular, the EEOC
35 Guidelines’ criteria regarding the identification of adverse impact and requirements regarding
36 the documentation of evidence greatly informed the assessment review criteria for
37 disproportionate impact and the testing of special groups in this document.
38

39 The CCC Assessment Standards are intended to align with these three reference sources.
40

41 **Criteria for the Evaluation of Assessment Instruments**

42

43 The CCC Assessment Standards are organized around five key areas of review:

44

45 1. Fairness

46 2. Validity

47 3. Reliability and errors of measurement

48 4. Scaling, norming, score comparability, and cut scores

49 5. Test administration, scoring, reporting, and interpretation

50

51 Each key area specifies several criteria that must be considered during assessment review,
52 with references that have been paraphrased from the Joint Standards.

53

54 **Fairness**

55

56 The diversity of the test-taking population requires an evaluation of the appropriateness and
57 fairness of test use with special groups, such as individuals of different linguistic backgrounds
58 or with disabilities. The special characteristics of these groups may require test
59 accommodations to minimize barriers irrelevant to measuring student knowledge. Such
60 barriers may be found in test content, setting, instructions, response format, access, or
61 opportunity to learn. It is important that test developers and test users are cognizant of the
62 potential presence of these barriers and take appropriate measures to mitigate them. Criteria
63 that enhance measurement and evaluation of diverse populations are presented below:

64

65 Criterion 1. Testing Special Groups: General. Decisions regarding appropriate test selection,
66 provision of test accommodations or other modifications of testing procedures, and test
67 score interpretation with respect to individuals with special characteristics and needs must
68 always be made by someone who has expertise in testing these special groups or in
69 consultation with someone who possesses this expertise.

70

71 Criterion 2. Test Design for Non-Native English Speakers. Tests and test procedures must
72 minimize threats to validity and reliability that may arise from language differences. Any
73 modifications made to accommodate individuals with limited language proficiency must be
74 described in detail. When a test is used with linguistically diverse test takers, information
75 must be provided for appropriate test use and test score interpretation. Translated tests must
76 be evaluated for reliability, validity, and comparability with the English version.

77

78 Criterion 3. English Language Proficiency Tests for Non-Native English Speakers. Assessments
79 of English language proficiency must be comprehensive in scope (e.g., reading, grammar,
80 writing, listening, and speaking) and must reflect the language requirements of the academic
81 environment. It is insufficient to assess only a single language skill such as reading or writing
82 in order to draw inferences about an individual's overall language proficiency.

83

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84 Criterion 4. Test Design for People with Disabilities. Expertise in psychometrics and
85 populations with disabilities is required for modifications on tests provided to individuals with
86 disabilities. Knowledge of the effects of various disabilities on test performance is essential.
87 Until validity data are obtained for test scores resulting from non-standardized testing
88 conditions, test documentation must issue cautions for the interpretation of test scores. Pilot
89 testing of any modified assessment instruments is strongly advised with persons having the
90 same or similar disability. When feasible, time limits should be modified for students with
91 disabilities on the basis of expert judgment and/or previously conducted reliability and
92 validity studies.

93
94 Criterion 5. User Responsibility. When modified forms of a test are available for special
95 populations, they are to be used with these students. Proper selection of appropriate norms
96 to facilitate valid score interpretation for these groups is essential. Using personnel who have
97 been specifically trained for the group or person to be tested is also strongly encouraged for
98 test administration.

99

100 **Validity**

101

102 Validity is the most fundamental concern when evaluating an assessment process and
103 placement decision. Validity is demonstrated through a variety of evidence sources that
104 support the specific interpretation of test scores and their use. It is important to point out
105 that a test or assessment method itself is not validated but rather the interpretation and use
106 of the score. If the score interpretation and use differs across applications, then each specific
107 application requires validation. The following review criteria address various types of validity
108 evidence that are especially germane to the use of assessments for course placement
109 purposes in the California community colleges. Unless otherwise noted, test developers
110 ordinarily have responsibility to provide the information called for by each criterion for their
111 tests.

112

113 **Criterion 1. Validity: General.** Evidence must be provided by the test developer or test user
114 supporting the particular interpretation and use(s) of the test scores. Each evidence source
115 must be described in detail and a rationale be given that explains how the reported evidence
116 supports test score interpretation and use. The rationale given for each evidence source will
117 guide test reviewers in determining the soundness and sufficiency of the evidence.

118

119 In some assessment contexts—for example, during the initial implementation of a course
120 placement assessment—validity evidence may not be available for review. In those contexts,
121 test materials must explicitly state that the validity of the assessment has not been
122 established. Test developers or test users must accompany those statements with a plan for
123 test validation that specifies the type of validity evidence to be provided, a rationale for the
124 type of validity evidence that will be provided, and a data collection plan.

125

126 If a test developer or test user substantially alters a test or its use, new validity evidence
127 obtained under the changed testing conditions must be presented for the altered test.

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128 Alternatively, the test developer or test user may offer a rationale that addresses why the
129 changes to the test have not substantially altered it. Changed testing conditions can result
130 from changes in item format, test administration procedures, language, instructions, or test
131 content. The extent of the revalidation will likely vary with the nature of the changes.
132

133 **Criterion 2. Content-Related Evidence.** If a test is proposed to represent a defined domain of
134 content and/or skills, then a clear definition of the content domain and rationale for its
135 relevance to the proposed test use(s) must be provided. Additionally, the relationship
136 between item content and the content domain must be described fully and accurately. For
137 example, test developers must provide information describing how individual items map onto
138 the various categories that make up the content domain. Sufficient detail is expected so that
139 test users and reviewers can evaluate the range of content in the assessment instrument and
140 consider its appropriateness. If content experts are used to judge the appropriateness of the
141 selected test content, then their qualifications and independence from the test development
142 must be described.
143

144 **Criterion 3. Construct-Related Evidence.** If a test is proposed to measure a construct, the
145 construct must be specified and well defined. In addition, evidence to support the inference
146 from the test to the construct must be presented. Evidence must show the relationship of the
147 instrument to what it measures, and, conversely, that it does not relate to what it should not
148 measure. The instrument should also show relationships with other variables when such
149 relations can be expected based on psychological or educational theories, including non-
150 cognitive variables that relate to motivation, such as hope or leadership experience.
151

152 **Criterion 4. Criterion-Related Evidence.** If a test is proposed to measure content that is
153 similar to an already existing test and/or dissimilar to another already existing test, then the
154 expected strength of the relationship between performance on the new test and on the
155 criterion test must be demonstrated using correlational or other statistical evidence. All
156 criterion-related studies must be completely described, including a specification of the
157 sample, data collection process, and statistical analyses. In addition, substantive and
158 psychometric information must be provided for each criterion measure along with a rationale
159 for their selection.
160

161 **Criterion 5. Differential Prediction.** Differential prediction should be investigated whenever
162 feasible, and when prior research has established a substantial likelihood for differential
163 prediction to occur with a particular type of test. That is, when groups differ, for example, in
164 terms of demographics, past experiences, or instructional treatment, and when such factors
165 are expected to produce differential performance on the test, then it must be determined if
166 decisions are systematically different for the members of a given group compared to all
167 groups combined. Such information may be useful if disproportionate impact is indicated for
168 certain groups that differ in terms of their performance on a given test.
169

170 **Criterion 6. Cut Scores.** If a test is used to make classification decisions about test takers
171 based on cut scores (e.g., classifying test takers into groups or categories such as course

172 placement), then the method used to determine the cut scores must be fully documented.
173 Documentation must include information that allows reviewers and other test users to
174 evaluate the appropriateness and rationale for each cut score. When cut scores are based on
175 professional judgment, the qualifications of the judges must be documented. Colleges are
176 also advised that the setting of cut scores should be done in ways that are consistent with
177 other standards on prerequisites such that cut scores cannot be used to preclude students
178 from enrolling in a course in which they have a reasonable likelihood of successful
179 completion.

180

181 **Reliability and Errors of Measurement**

182

183 No assessment instrument is free of error. Recognition of this fact requires that the reliability
184 of the assessment instrument and the degree of error associated with test scores be
185 documented. Because error results from many different sources depending on what is
186 measured and the assessment context, the type of reliability evidence that is provided should
187 take into account the error sources that are most relevant and of greatest concern for the
188 assessment instrument. The following criteria for reliability of tests are most applicable to the
189 California community colleges:

190

191 **Criterion 1. Reliability: General.** To determine whether each reported score is sufficiently
192 accurate for the intended use, estimates of reliability and standard errors of measurement
193 must be provided. The sample characteristics, statistics, and the methodology employed to
194 document reliability must be described completely. If theoretical or empirical information
195 suggests that estimates differ by population group, then estimates must be provided for each
196 major population group. Direct performance assessments that rely on human judgment must
197 document adequate levels of scorer consistency using an appropriate statistical method.

198

199 As a note of caution, proper documentation of reliability evidence is in itself not sufficient to
200 meet standards for reliability unless the reported estimates of reliability and standard error
201 indicate sufficient accuracy for the test's intended use.

202

203 **Criterion 2. Type of Reliability Estimates Provided.** The type of reliability estimate should be
204 appropriate for the proposed test score use and properly interpreted. For example,
205 coefficients of internal consistency yield information about the agreement among test items
206 but not about the test score's stability over time.

207

208 When tests are speeded by design, appropriate methods yielding non-spurious reliability
209 estimates must be used. When corrected coefficients are reported, uncorrected indices must
210 be presented as well. If a test is scored using human raters and a judgmental process, the
211 degree of error between the human raters must be documented using appropriate statistical
212 methods.

213

214 **Criterion 3. Specific Reliability Applications.** For tests relying on cut scores, reliabilities need
215 to be reported at each cut score or for the score intervals separated by cut scores. Also,

216 decision consistency information must be reported for selected score points. For computer-
217 adaptive tests, reliabilities must be reported for repeated administrations using different item
218 selections.

219

220 **Scaling, Norming, Score Comparability, and Equating**

221

222 The metric or score scale with which test scores are reported is generally chosen to support
223 the interpretability of test scores with respect to their intended meaning and use. Frequently,
224 raw test scores are transformed to facilitate proper test score interpretation. For example,
225 test scores may be transformed to facilitate norm-referenced interpretations; that is, to
226 produce information about a test taker's relative standing within a population or comparison
227 group.

228

229 Another important reason to transform test scores is to achieve comparability of test scores
230 across different forms of an assessment. Regardless of the utility achieved by establishing
231 derived scales, the resultant transformed scores can introduce error in the measurement
232 process due to the procedure itself or the sampling methodology used. Important criteria for
233 evaluating the appropriateness of test score transformations used in the California
234 community colleges are presented below. As these criteria suggest, benefits realized by
235 transforming scores must be carefully weighed with any drawbacks.

236

237 **Criterion 1. Choice of Scales.** The method used to compute the transformed (derived) scale
238 or raw score must be clearly delineated. In addition, the rationale must address the
239 relationship between the scaling methodology and the test's purpose.

240

241 **Criterion 2. Norms.** If a test proposes a norm-referenced interpretation of test scores, the
242 reference group to which test scores are compared must be clearly described. Furthermore,
243 the choice of reference group must be appropriate for the proposed interpretation and use of
244 test scores. The methodology for constructing norms, including sampling plan, participation
245 rates, and descriptive statistics, must be exhaustively specified. In addition, the year(s) in
246 which the norming data were collected must be reported. Outdated norms generally do not
247 support the use of test scores with current populations unless an argument can be made that
248 the population has not substantially shifted or changed.

249

250 **Criterion 3. Comparability of Scores.** When test scores based on different test forms and/or
251 different response formats are intended to be interchangeable, data that support the
252 equivalence of the test forms must be provided. When the test content changes across years,
253 the changes must be fully described along with a rationale for each change. Test users must
254 be informed of all test changes and how the test changes impact the comparability of test
255 scores. When the changes to a test are substantial, it must be revalidated.

256

257

258

259 **Standards for Administration, Scoring, and Interpretation of Standardized Tests**

260

261 To ensure that test takers experience the same test conditions, it is essential that procedures
262 for test administration, scoring, and reporting are carefully documented and made available
263 to test users. Instructions must be clear, accurate, and complete and must enable test users
264 to accurately implement all procedures as well as to make informed decisions when selecting
265 an assessment instrument appropriate for their need. The following criteria speak to the
266 adequacy of documentation and the use of information as it pertains to the assessment
267 needs in the California community colleges.

268

269 **Criterion 1. Administration and Scoring.** The standardized procedures for the administration
270 and scoring of an assessment instrument must be fully described in the accompanying
271 manual. A test manual must identify the qualifications necessary to administer the test
272 appropriately. The standardized procedures for test administration and scoring specified in
273 the manual must be appropriate for the purpose of the assessment instrument. Any
274 modification of standardized test administration procedures or scoring must be fully
275 described in the manual with appropriate cautions noted. A local community college or its
276 representative that develops a test has the same obligation to supply manuals and technical
277 reports as does a commercial test publisher. Standardized scoring instructions and rubrics are
278 essential when the measure is a direct performance assessment.

279

280 **Criterion 2. Interpretation: General.** A test manual should identify qualifications necessary to
281 interpret test results. Screening measures should be used only to identify individuals for
282 further evaluation. Test users must not base decisions on interpretations of test scores unless
283 they have documentation that indicates the validity of the interpretations for the intended
284 use.

285

286 **Criterion 3. Interpretation: Test for Certification.** If a test is used to certify completion of a
287 given education level, both the test content domain and the content domain of instruction at
288 the target education level must be described in sufficient detail so that the agreement
289 between the content domain of instruction and the test content can be assessed. An
290 assessment instrument should not cover material that a student has not had an opportunity
291 to learn. Students must have multiple opportunities to take a test used for certification.

292

293 **Criterion 4. Test Materials.** Test documentation must be readable and understandable. Any
294 claims regarding test properties and characteristics must be limited to those for which data
295 exist to support the claim. Such data must be documented and made available to test users.

296

297 **Criterion 5. Decision Making.** A decision or characterization that will have a major impact on
298 a test taker must not be made solely on the basis of a single test score or single measure.
299 California Code of Regulations, title 5, section 55522 requires that when colleges use an
300 assessment for course placement, "it must be used with one or more other measures to

Section TWO

301 comprise multiple measures.” Title 5, section 55502(i) further defines the “multiple
302 measures” as “a required component of a district’s assessment system and refers to the use
303 of more than one assessment measure in order to assess the student.” Decisions are to be
304 made in conjunction with other assessment information, previous classroom performance,
305 and/or opinions of advisors familiar with the impacted test taker. Section 7 provides more
306 information on multiple measures.

307
308

309 **Criteria Associated with Direct Performance Assessment**

310

311 The preceding discussion of fairness, validity, reliability, scaling and equating, and
312 administration offers guidelines for the evaluation of tests in general. Additional criteria are
313 useful for the evaluation of direct performance assessments, such as essay writing tests,
314 which require test takers to perform a real-life or simulated task. Direct performance
315 assessments generally require an evaluation of the quality of performance based on explicit
316 performance criteria. Accuracy can play an important role as an evaluation criterion but it
317 may not be the sole criterion. Typically, direct performance assessments are scored by human
318 judges using a scoring rubric or other well-defined scoring procedure. The following sections
319 present specific criteria pertinent to the evaluation of direct performance assessments in the
320 California community college context.

321

322 **Fairness**

323

324 Special care needs to be taken when considering the appropriateness of direct performance
325 assessments for special student groups (e.g., students with special needs). Due to the
326 inherently greater complexity of performance-based response formats, there is a greater
327 likelihood of construct-irrelevant factors influencing both test performance as well as the
328 judgment of human scorers. Alternative means of responding to test prompts or tasks may
329 need to be incorporated into the assessment process for some groups (e.g., the visually
330 impaired).

331

332 **Validity**

333

334 There are three central validity concerns regarding direct performance assessments:

335

- 336 • the development and selection of appropriate prompts or tasks;
- 337 • the development of fair and reliable scoring procedures; and
- 338 • the use and re-use of prompts or tasks over time.

339

340 The first and second concerns may both be addressed by providing detailed documentation of
341 the development of prompts and tasks and of scoring procedures and their logical connection
342 to the measurement construct. The third concern should be addressed by presenting
343 evidence of the comparability of prompts and tasks across test takers as well as across

344 assessment occasions. Lastly, evidence should be provided that the assessment instrument
345 can be administered and scored in a standardized (consistent and well-defined) manner.

346

347 **Reliability and Errors of Measurement**

348

349 Most direct performance assessments rely on human scorers to accurately and consistently
350 apply scoring rules. Consequently, reliability evidence should focus on the human scorers as a
351 potential source of error and include estimates of inter-rater reliability. When performance
352 assessments vary the types of prompts or tasks across test takers, reliability evidence must be
353 presented separately for each prompt or task. The scorer orientation or training should be
354 articulated and the procedures for scorer calibration (norming) should be specified.

355 Additionally, when appropriate, procedures or evidence must be presented addressing intra-
356 rater reliability issues and concerns to ensure that rater drift does not occur over a scoring
357 period.

358

359 **Scaling, Norming, Score Comparability, and Equating**

360

361 When test scores from direct performance assessments are transformed into scale scores, the
362 scaling method must be clearly delineated. Furthermore, a rationale must be given that
363 addresses how the scaling methodology supports the test's purpose.

364

365 When a total score is computed on the basis of individual component scores—for example,
366 when individual performance criteria are judged and scored separately as is the case in
367 analytical scoring models—then the methodology used to derive the total score
368 (computations, weighting, etc.) along with a rationale for its use must be provided.

369

370 Additionally, when direct performance assessments vary the types of prompts or tasks across
371 test takers, documentation of the equivalence of scoring procedures across prompts or tasks
372 must be presented. If the test content or the scoring procedures change across prompts or
373 tasks but the resulting scale scores are intended to be comparable, the method for
374 maintaining comparability must be described and be shown to be appropriate for its intended
375 use.

376

377 **Standards for Administration, Scoring, and Interpretation of Standardized Tests**

378

379 Because of the prevalence of human scoring in direct performance assessments, emphasis
380 must be given on the clear documentation of scoring procedures, including the description of
381 procedures implemented to train scorers. A second concern is the threat to test security that
382 would occur if test prompts or tasks were disseminated. Test developers and test users
383 should describe all measures implemented to minimize such test security threats.

1 **SECTION THREE: THE PROCESS FOR REVIEWING ASSESSMENTS**

2
3 California Code of Regulations, title 5, section 55522 vests the California Community Colleges
4 Chancellor’s Office with the responsibility to approve any assessment test used in placing
5 students in English, mathematics, or English as a Second Language (ESL) courses at the
6 colleges. Section 55522 also requires the Chancellor’s Office to establish at least annually a
7 list of approved tests.

8
9 The Chancellor’s Office is responsible for reviewing tests used for course placement in the
10 community colleges. It is advised and aided by its Assessment Advisory Committee and
11 psychometric experts in this review process and in making decisions regarding approval of
12 placement tests for the colleges. This section outlines the review process.

13
14 **Step 1. Request for Assessment Approval**

15
16 A formal written request for assessment approval must be submitted by either a local college
17 developing/managing a test or a second-party test publisher. Appendix C provides an example
18 of the request form that a college must submit. Second-party test publishers must include a
19 cover letter with their application instead of the request form as their requirements for
20 submission differ. Depending on the applicant (college or test publisher) and the type of
21 application (initial submission, follow-up submission, or renewal submission), application
22 materials must sufficiently address relevant criteria described in Section 4. A flowchart and
23 tables outlining criteria for different submission types are provided in Appendix C.

24
25 Applications should be sent to the Chancellor’s Office before the published submission
26 deadlines to be considered for approval (at assessmentadvisory@cccco.edu). The annual
27 review schedule and required form are published on [the Chancellor’s Office website](#).
28 Applications received after the published deadlines may be accommodated if scheduling
29 permits; however, this is not guaranteed. Applicants should anticipate that late submissions
30 will be reviewed during the next semiannual cycle. The corresponding list of approved tests is
31 updated after completion of each review cycle.

32
33 **Step 2. Preliminary Psychometric Expert Review**

34
35 The information submitted to the Chancellor’s Office will be reviewed by at least two
36 psychometric experts with doctoral degrees in a measurement-related area or who have had
37 five or more years of experience in tests and measurement. They must also have a broad
38 understanding of both theoretical and applied issues for testing. Their evaluation of the
39 instruments is based primarily on the evaluation criteria specific to the California Community
40 Colleges as described in the following sections. Reviewers may also use other guidelines that
41 are commonly accepted by the psychometric profession, such as the Joint Standards, the
42 Code of Fair Testing, and the EEOC Guidelines.

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43

44 Although much of the documentation on a test instrument is likely to be supplied by the
45 instrument's developer and made available in the assessment approval request, the
46 psychometric experts contracted by the Chancellor's Office may compile additional
47 information relevant to the instrument including, but not limited to, technical reports, test
48 reviews conducted by an independent third party (such as those found in the [Mental](#)
49 [Measurement Yearbook \(MMY\) series](#) for second-party tests), review articles that are
50 published in professional journals and books, and technical reports prepared by California
51 community college users or the Chancellor's Office. The quality of the recommendation made
52 by the Assessment Advisory Committee to the Chancellor's Office depends upon the quality
53 of the information considered in the review for approval. Consequently, as much information
54 as possible should be compiled and deliberated.

55

56 Upon completing an initial review of the application for approval, the Chancellor's Office's
57 psychometric experts will submit a preliminary assessment evaluation to the applicant (i.e.,
58 local college or test publisher) as well as the Chancellor's Office. The applicant has up to 14
59 days to respond to this preliminary report if it wants to amend its application. However, the
60 Chancellor's Office may reduce the response time if it is necessary to streamline the review
61 process for the specific application cycle. Responses are limited to clarifications of the data
62 previously submitted and/or to additional information that already exists but was not
63 provided by the applicant in the initial submission. Responses should not involve assembling,
64 analyzing, and reporting "new" data gathered in response to the preliminary evaluation.

65

66 Upon receiving additional information from the applicant, the psychometric experts may
67 revise the preliminary assessment evaluation. The updated preliminary assessment
68 evaluation will be submitted to the Assessment Advisory Committee to be considered in Step
69 4.

70

71 **Step 3. Content Expert Review (For Initial Review of Second-Party Tests)**

72

73 For the initial review of a new second-party test, the instrument will be reviewed by at least
74 two subject matter experts in each pertinent content area. These subject matter reviewers
75 are California community college faculty members who are knowledgeable about the specific
76 content area courses the instrument assesses.

77

78 The content experts must evaluate all of the following:

79

- 80 1) The rationale underlying the assessment instrument stated by the applicant.
- 81 2) The items on the instrument.
- 82 3) The suggested interpretation of scores relative to the instrument's intended use.
- 83 4) The appropriateness of content for the diverse populations served in the California
84 community colleges.

85

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86 These content reviewers will submit a written report to the Assessment Advisory Committee
87 to be considered in the next step.

88

89 **Step 4. Assessment Advisory Committee Review**

90

91 The Assessment Advisory Committee consists of a cross-section of community college faculty,
92 staff, and administrators with expertise in assessment, research, teaching, or instruction.

93 Appendix D presents the Charter of the Assessment Advisory Committee. The Assessment
94 Advisory Committee will review the approval request, test materials and relevant documents,
95 the preliminary assessment evaluation prepared by the psychometric experts, and the review
96 report prepared by the content experts if the submission is a new second-party test. The
97 committee may solicit additional information from test developers or test users, if necessary.

98

99 The Assessment Advisory Committee review culminates in a final recommendation report to
100 be written and submitted to the Chancellor's Office. The report summarizes the key points of
101 the application as well as the resulting analysis of the committee. The recommendation will
102 be in one of the following four categories:

103

- 104 • Full Approval
- 105 • Provisional Approval
- 106 • Probationary Approval
- 107 • Not Approved

108

109 Only test instruments receiving Full, Provisional, or Probationary Approval may be used by the
110 colleges. The length of time colleges may use a test varies by level of approval. However, a
111 test may only maintain Provisional Approval or Probationary Approval for no more than three
112 (3) years in combination. That is, tests will not maintain approval unless Full Approval is
113 attained within three years. In applying for Full Approval, new evidence to support this
114 designation must be submitted.

115

116 The categories for approval are further described below.

117

118 **Full Approval**

119 Test instruments in this category fully meet **all** relevant standards and criteria. The available
120 evidence indicates a high probability of yielding test scores useful in assisting decision making
121 for a particular community college student.

122

123 **Provisional Approval**

124 Test instruments in this category meet most but not all relevant standards and criteria, and
125 the tests lack sufficient or recent information to assign the unequivocal Full Approval rating.
126 The expectation of the instrument with Provisional Approval is that the necessary clarifying
127 information to attain Full Approval can and will be provided within one academic year. Failure
128 to submit the required data and/or clarification within one year will result in reclassification

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129 into either a two-year Probationary Approval or the Not Approved category (if the test had
130 Probationary Approval prior to the current Provisional Approval).

131

132 **Probationary Approval**

133 Test instruments in this category are missing critical information, or noticeable deficiencies
134 are found in the documentation provided. The intended use of these instruments is clearly
135 stated, and some positive information supporting its use is available, but the necessary
136 evidence available for a final judgment is incomplete. To attain this minimal approval
137 standard, the test must satisfy at least one form of validity as well as the fairness/test bias
138 standard. Instruments can only maintain Probationary Approval for a maximum of two years.
139 Failure to submit the required satisfactory evidence within two years will result in
140 reclassification into the Not Approved category.

141

142 **Not Approved**

143 Test instruments in this category have failed to meet one or more of the essential standards
144 (validity and fairness/test bias as well as a plan to address disproportionate impact) or have
145 failed to meet a condition of title 5.

146

147 **Step 5. Chancellor's Office Decision**

148

149 The Chancellor's Office will make the final decision regarding approval. Per title 5, section
150 55522, instruments that are not on the Chancellor's list of approved tests must not be used
151 for course placement in the California community colleges. The list of approved test
152 instruments is posted on [the Chancellor's Office website](#). The applicant will receive a copy of
153 the final evaluation report and be notified by the Chancellor's Office regarding the approval
154 decision.

155

156 **Step 6. Appeals Process**

157

158 A decision by the Chancellor's Office may be appealed by any applicant for approval. Requests
159 for an appeal must be submitted in writing to the Chancellor's Office within 30 days of
160 notification of the Chancellor's Office decision. The request must clearly explain why the
161 decision is being challenged. The Chancellor's Office may determine the next course of action,
162 including the option of convening an appeals workgroup, consisting of Assessment Advisory
163 Committee members, to reconsider the status. The Chancellor's Office must make a
164 determination regarding the appeal within two months of the request.

165

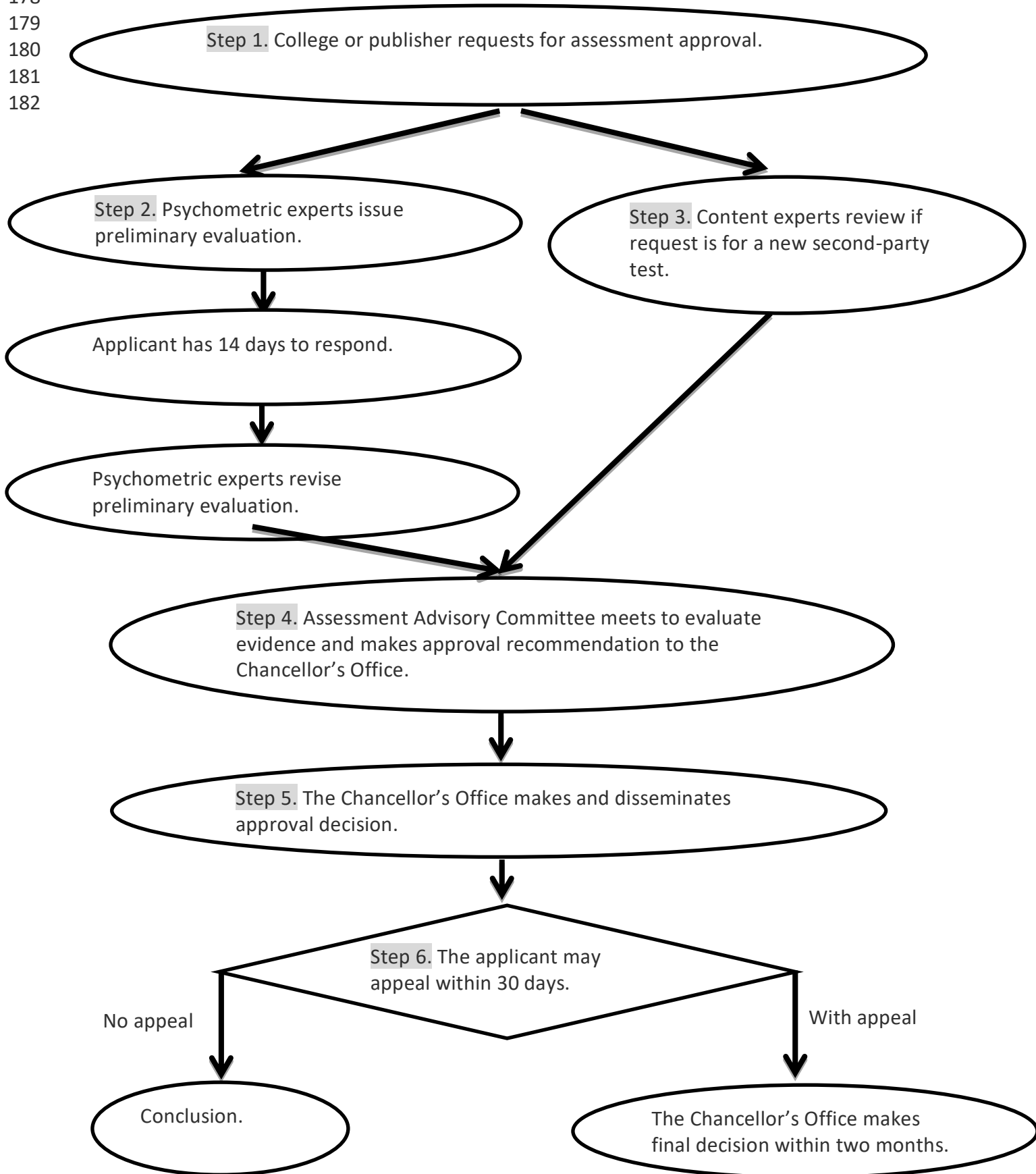
166 Validation and documentation of instrument quality is considered an ongoing process;
167 therefore, publishers and colleges are expected to continuously monitor and evaluate their
168 test instruments. Further, once any approval status is attained, that instrument is "approved"
169 for a period not to exceed six years. Well before the end of this six-year period of approval,
170 new supporting materials or documentation must be submitted or the instrument will lose
171 approval. Therefore, second-party publishers with test instruments nearing completion of six
172 years of approval status must resubmit information and documentation during the fifth year

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173 of approval so that continued use can be maintained by colleges. Similarly, colleges with
174 locally developed or managed test instruments are encouraged to resubmit information and
175 documentation during the fifth year of approval, but they may elect to wait to resubmit no
176 later than midway through the sixth year of approval. Section Six of this document provides
177 additional details for the “renewal” of a test’s approval status.

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1 **SECTION FOUR: SPECIFIC CRITERIA FOR TEST USAGE**

2
3 Section TWO of this document summarizes and abstracts portions of the Joint Standards that
4 are most relevant to the California community college context and provides the general
5 framework for test evaluation. Most tests used by California community colleges are intended
6 to help students enroll in appropriate courses. The tests serve a placement purpose, offering
7 students guidance as to whether they should enroll in a course at the beginning of the
8 sequence of courses in mathematics, for example, or somewhat later in the sequence. Because
9 of the specific nature of these measures and their common use within the California
10 community colleges, more explicit criteria can be written.

11
12 In this section, specific criteria for reviewing placement tests are provided to tailor the
13 standards for this specific use of tests. These criteria apply to specific parties responsible for
14 test development and management in the California community colleges. Specifically, two
15 types of tests are differentiated:

- 16
17 • Tests developed or managed by a California community college or district (referred to
18 as “locally developed/managed tests”, and
19 • Tests developed and maintained by a second-party external to the California
20 community colleges (referred to as “second-party tests”).

21
22 The locally developed/managed tests include two types of tests: (1) tests developed by a
23 California community college or district, or (2) tests developed by an independent vendor and
24 not approved by the Chancellor but whose use is deemed appropriate by a college or district,
25 in which case that institution assumes responsibility for bringing the test into compliance with
26 the standards as a locally managed test.

27
28 In the case of a locally developed/managed test, a local college (or district) takes on the role
29 of both test developer and test user. In the case of a second-party test, the test vendor is the
30 test developer while local colleges are test users. Therefore, the responsibilities of test
31 developers and those of test users with regard to a second-party test will be presented in
32 separate subsections.

33
34 Specific criteria have also been developed for computer-based assessments, including both
35 computer-administered tests and computer-adaptive tests. Advancements in technology and
36 psychometric models in the past decades permit further flexibility of testing; thus, computer-
37 based assessments require additional considerations due to their distinctive testing features.

38
39

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40

41 In summary, the remainder of this section is divided into four subsections:

42

43 I. Specific Criteria for Locally Developed/Managed Tests

44 II. Specific Criteria for Second-Party Tests: Primary Responsibility of the Test Developer

45 III. Specific Criteria for Second-Party Tests: Primary Responsibility of the Local College or
46 District as Test User

47 IV. Additional Criteria for Computer-Based Testing

48

49 It should be noted that the specific criteria detailed in the following subsections establish
50 minimum requirements necessary to gain an approval status. In general, the expectation is
51 that **all** specific criteria should be met. Under no circumstances can a test instrument gain
52 approval for use without meeting the minimum requirements regarding validity and test
53 fairness. At a minimum, **there must be evidence of the test's validity for the intended
54 purpose; and there must be evidence that the test minimizes cultural/linguistic bias,
55 insensitivity, and offensiveness.** In addition, the college should have a plan to mitigate any
56 disproportionate impact that is identified for any student groups. In the absence of such
57 information, the test will not be approved for use in the CCC.

58

59 In general, the appropriate use of a test needs to be considered in light of all applicable
60 standards described in the Joint Standards, the Code for Fair Testing, and the EEOC
61 Guidelines. Consequently, meeting the specific criteria described in the following subsections
62 may not be sufficient to receive a favorable recommendation for using a test instrument. It
63 should also be noted that evaluating the appropriateness and usefulness of a particular
64 assessment instrument is an **ongoing** activity. As student populations, the nature of a test,
65 course prerequisites, and/or placement sequences change over time, it will be necessary for
66 test developers and test users to reevaluate the instrument and its use.

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67

68 **I. Specific Criteria for Locally Developed/Managed Tests**

69

70 The responsibilities for colleges that locally develop or manage placement tests are
71 delineated in this section. At a minimum, these colleges must provide acceptable
72 documentation addressing **all** of the following:

73

- 74 • Fairness based on bias review findings (for a locally developed test) or adequate
75 fairness evidence provided by the test publisher or another college (for a locally
76 managed test).
- 77 • Content validity based on an item-by-item evaluation.
- 78 • A brief description of and rationale for the initial setting of cut scores (however, cut
79 score validity evidence is not required to obtain a minimum/probationary level of
80 approval).
- 81 • A plan to mitigate any disproportionate impact that is identified for any student
82 groups.

83

84 However, meeting the minimum requirements is not sufficient to attain Full Approval status.
85 Colleges that locally develop or manage tests should carefully consider all requirements in
86 this section for Full Approval.

87

88 **1. Fairness**

89

90 **a. Logical review of bias, insensitivity, and offensiveness**

91

92 Evidence focusing on the lack of cultural and/or linguistic bias, insensitivity, and offensiveness
93 must be provided. This evidence must involve evaluations of test items by diverse panels of
94 people who demographically represent the college's student population. Federal and state
95 anti-discrimination laws and guidelines should be consulted for identifying relevant protected
96 classes. As a general rule, when a protected class (as designated by race, gender, age, and
97 disability) constitutes at least two percent of the student population, that group should be
98 represented in the investigation. For tests of English language proficiency used for the English
99 learner population (e.g., English as a Second Language or ESL tests), the linguistic and cultural
100 background of test takers must also be considered.

101

102 The bias review guidelines, procedures, and training must be described in the application for
103 approval. A description of the panel members' qualifications and demographic
104 representations must also be included. At least two reviewers representing each protected
105 class must be involved in the logical review, and a reviewer can represent more than one
106 class (e.g., gender and ethnicity). Faculty, staff, students, and community participants can
107 serve as reviewers. However, faculty who are involved in the test's development and/or item
108 writing should not participate in the logical review. The determination of potential bias from
109 these investigations must be used to eliminate or minimize sources of test/item bias,
110 insensitivity, and offensiveness.

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When a college is managing a second-party instrument for which there is adequate and representative fairness evidence from the test publisher or from another college’s study, additional data from the college is not required. In this case, the fairness evidence and the sources should be cited in the approval request. Colleges are encouraged, but not required, to supplement the existing evidence with logical reviews conducted locally.

When assessment procedures are in place to minimize potential bias—for example, by providing students a choice of questions, prompts, or tasks—then the procedure must be clearly stated and described.

b. Disproportionate impact

Disproportionate impact must be monitored on an ongoing basis for various demographic groups (including race, gender, age, and disability). Disproportionate impact must be summarized and reviewed by pertinent college staff at least every three years. Federal and state anti-discrimination laws and guidelines should be consulted for identifying relevant protected classes. For tests of English language proficiency used for the English learner population, the linguistic and cultural background of test takers must also be considered. Colleges must update their disproportionate impact investigations when there has been a significant change in student demographics at the college.

When disproportionate impact is observed, the college shall, in consultation with the Chancellor’s Office, develop and implement a plan for addressing the disproportionate impact, including studies of differential prediction. Colleges may consult the California community colleges document titled [Ensuring Equitable Access and Success: A Guide to Assessing & Mitigating Disproportionate Impact in Student Success and Support Programs \(Aug, 2013\)](#) for further details on the definition, identification, and treatment of disproportionate impact. The requirement that disproportionate impact is to be continuously monitored must not be overlooked and colleges should be aware that they will be held to the standard of having plans to mitigate disproportionate impact in assessment.

The initial submission for a new test only needs to include a plan for data collection and analysis to monitor disproportionate impact. Actual data and findings are not expected for the first submission, although disproportionate impact information is welcome if available.

When a test is nearing the end of its initial six-year approval cycle is submitted for approval under the renewal process as described in Section SIX, the college must submit disproportionate impact findings along with mitigation plans or actions (if any disproportionate impact was found). Full approval of a renewal application can only be granted when:

- disproportionate impact findings are reported and judged acceptable, or

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- 154 • appropriate actions and/or plans to address significant disproportionate impact
155 findings are sufficiently described by the college.

156

157 **c. Standardization**

158

159 If the test is revised for testing individuals who cannot take it under standard conditions, there
160 must be documentation of all changes along with the basis for each accommodation. The
161 justification for changing or altering assessment instruments or procedures must be kept on
162 file at the local college.

163

164 **2. Validity**

165

166 **a. Content-related validity evidence**

167

168 The college must provide a comprehensive description of the appropriateness of a placement
169 test for a course sequence based on the overlap of the **knowledge and skills measured by the**
170 **test and the prerequisite knowledge/skills for courses in the sequence**. Content-related
171 validity evidence must be grounded in statements of specific pre-course expectations (i.e.,
172 prerequisite skills) that are then linked to the actual tested skills. Information addressing the
173 extent of the alignment between prerequisite skills and the specific content measured by the
174 test provides strong rational evidence of the content representativeness and relevance of the
175 test for the course sequence. In addition, the college must comply with title 5, section 55003
176 (d), which addresses the allowable purposes for establishing a prerequisite.

177

178

179 Procedurally, local college faculty are to evaluate the content representativeness by
180 participating in an **item-by-item evaluation** of the test content considering the prerequisite
181 skills for each course in the placement sequence. When the test is a performance assessment
182 (e.g., writing samples), the evaluation is with regard to prompts, tasks, and rubrics. At least
183 one instructor (with current or recent teaching assignment) for each course in the sequence
184 should be included in this content review while the involvement of multiple instructors is
185 encouraged. To the extent possible, faculty who were involved in item writing or any other
186 part of the test development process should not serve on the content review panel.

187

188 Summary information that describes the process and results of the content review must be
189 provided. Results must include tabulations addressing the degree of match between the
190 prerequisite skills and the assessed content/skills. The necessary prerequisite skills not
191 measured by the instrument must be noted, as well as those skills/content tested that are not
192 relevant to the prerequisite skills. In other words, information presented on content-related
193 validity evidence must address the following questions:

194

- 195 • Does the instrument measure all prerequisite skills that are necessary for appropriate
196 course placement?
- 197 • Are there sufficient items and coverage to adequately assess each prerequisite skill?

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- 198 • Does the instrument assess skills and knowledge that are not prerequisite skills?
199

200 The greater the degree of the overlap between course prerequisite skills and those skills
201 measured by the test, the stronger the evidence in support of content-related validity. The
202 extent to which a test measures irrelevant (non-prerequisite) skills must be documented and
203 considered when judging the appropriateness of the test. When a test can be used to “test
204 out” of a course or course sequence (e.g., English as a Second Language), a content-related
205 validity evaluation must provide evidence of the content match between the instrument and
206 the objectives of the alternative course (e.g., native English course).
207

208 **For direct performance assessments**, descriptions of how prompts/tasks and scoring rubrics
209 were developed must be included in the initial submission in addition to the alignment
210 results. A copy of the rubrics must be provided. Including the actual prompts/tasks is at the
211 applicant’s discretion, but the test review process may be facilitated if the prompts/tasks are
212 provided. A description of how raters are trained to administer the instrument/task and apply
213 the scoring rules consistently must be documented. Additionally, the methods used for
214 resolving inconsistencies between scorers should be described and justified.
215

216 **b. Criterion-related or consequential-related validity evidence**

217
218 Evidence addressing criterion-related or consequential-related validity need only be collected
219 if such a design is implemented in order to provide the empirical validation of local cut scores.
220 (See subsequent [Subsection I.2.c.](#))
221

222 **c. Evidence addressing adequacy of cut scores**

223
224 It is the local community college's responsibility to validate its cut scores. Data are to be
225 collected by the individual college to justify the selection of any cut scores or score ranges
226 used for placement recommendations. The adequacy of any cut score may be demonstrated by
227 either a judgmental or an empirical approach. Arbitrary decisions about cut scores (e.g.,
228 passing with 70 percent of items correct) are not based on empirical evidence or informed
229 judgments and are therefore not acceptable. However, setting initial cut scores on the basis
230 of an item-by-item analysis of relevance of each test item to “pre-course” skills is an
231 acceptable judgmental methodology provided empirical evidence is later collected to support
232 or modify the cut scores.
233

234 A judgmental approach typically focuses on setting the initial cut scores. However, if such
235 judgmental data are to be used as the only evidence to support the adequacy of the cut
236 scores, the college must use a systematic procedure that can be found in the cut-score setting
237 literature (for example, see Cizek & Bunch, 2007, and Zieky, Perie, & Livingston, 2008, for
238 appropriate procedures). In addition to the process and the results, the college must also
239 document the persons involved and their credentials. Individuals involved in this process
240 should be familiar with student learning in the courses in the placement sequence.
241

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242 When an empirical approach is used to determine cut scores, the results must, at a minimum,
243 demonstrate that individuals who score above the cut score or within a score range have a
244 statistically significant expectancy of success in a specific course for which placement
245 recommendations are made than those who score below the cut score or score range. The
246 “success” may be defined as the appearance of preparation for the course based on instructor
247 ratings, a mid-term grade, or a final course grade of C or higher. Other operational definitions
248 for success may be articulated by the college. Either criterion-related or consequential-related
249 evidence is appropriate for meeting this standard with the determination as to which
250 evidence is most appropriate being based on the following general principle:

251

- 252 • Criterion-related studies are appropriate for a new test that has not yet been
253 approved and whose test scores have **not** been used for course placement.
- 254 • Consequential-related studies are appropriate for a previously approved test whose
255 test scores have been used for course placement.

256

257 Determining the methods and procedures for carrying out cut score validation studies is a
258 local college decision. However, colleges are expected to follow proper and reasonable
259 investigative approaches, including obtaining sufficient sample sizes and maintaining
260 objective judgments (or impartiality) by using double blind experimentation.

261

262 **For criterion-related validity studies**, a variety of research designs are acceptable including
263 mean comparisons or correlational designs. Appropriate criterion variables may include, but
264 are not limited to, any of the following:

265

- 266 • Student ratings of ability to meet course requirements.
- 267 • Instructor ratings of students’ abilities to meet course requirements.
- 268 • Midterm grades or test scores.
- 269 • Final course grades or test scores.

270

271 When used as the primary index for criterion-related validity, the coefficient of the
272 correlation between the test score and the criterion must be greater than or equal to .35 (or a
273 comparable effect size if an alternative statistical analysis was performed). Coefficients
274 corrected for range restrictions (either on the test score, on the criterion, or both) are
275 acceptable if a rational foundation is presented for their use.

276

277 **For consequential-related validity studies**, the following research questions are to be
278 considered:

279

- 280 (i) After the first few weeks of a course (e.g., between the fourth and sixth weeks), how do
281 students whose test scores recommended placement into that class evaluate the
282 appropriateness of their course placement (e.g., placed in the correct/proper course,
283 should have been placed in a higher course, should have been placed in a lower
284 course)? The standard is at least 75 percent affirmative endorsement by students.

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- 285 (ii) After the first few weeks of a course (e.g., between the fourth and sixth weeks), how do
286 instructors evaluate the readiness to undertake the material of the course for
287 individual students whose test scores recommended placement into that course?
288 The standard is at least 75 percent of students are considered properly placed by
289 instructors.
- 290 (iii) For students who choose not to follow a test's course placement recommendation,
291 how do these students fare (in terms of material learned, suitability of the placement,
292 and their likelihood of successful matriculation) in the classes into which they choose
293 to enroll, and can such performance be justified/expected?
- 294 (iv) What do students and instructors identify as undesirable results of an "incorrect"
295 course placement and what are the consequences (for students, instructors, academic
296 units, and the institution) of such decisions?
297

298 Under any approach chosen by a college for investigating consequential-related validity, at a
299 minimum, items (i) and (ii) above must be formally addressed and satisfied for the instrument
300 to be fully approved. Items (iii) and (iv) are optional and supplementary; although they are not
301 required, they can be extremely useful sources of information to colleges that may choose to
302 pursue such lines of inquiry. Other supplemental research questions are possible, and
303 comparable investigative orientations that involve students and instructors are encouraged.
304

305 Consequential-related validity evidence results should be reported separately for each course
306 in the placement sequence as well as a cumulative result for the entire sequence.
307

308 A minimum sample size of 30 students is required for each course in a consequential-related
309 validity study. When sample sizes are small due to low enrollment via assessment, colleges
310 must attempt to collect information from students and instructors over multiple terms and
311 report results with both cumulative data and single-term data. In addition, the data must be
312 collected within a recent three-year period. If sample sizes are still too small even after
313 collecting data over a recent three-year period, colleges may submit analyses using recent
314 three-year data regardless of the small sample size. However, in this case, colleges must
315 document in writing their efforts to collect, analyze, and monitor all available student data
316 and use due diligence to ensure fair and proper test usage.
317

318 **d. Validity evidence for subscores**

319
320 When subscores are used to assist placement recommendations, validity evidence
321 ([Subsections I.2.a. through I.2.c.](#)) must be demonstrated for each subscore.
322

323 **3. Reliability and Errors of Measurement**

324
325 The local community college should attempt to evaluate all relevant sources of measurement
326 errors. The sources of measurement errors may include score variability over testing
327 occasions, item sampling, alternate forms, or scorers. At least one form of reliability must be
328 provided for Full Approval status. Multiple forms of reliability evidence may be required

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329 depending on the nature of the test (e.g., direct performance assessment) and its score
330 usage. The minimum sample size for a reliability analysis is 50 students.

331

332 **a. Variability over testing occasions (test-retest reliability)**

333

334 Test score stability may be assessed by administering the test on two occasions to the same
335 student sample. The design may involve administering the same test form twice (test-retest
336 approach) or using alternate test forms for the two administrations (equivalent-form
337 approach). In order to assess stability, the two testing occasions must be at least two weeks
338 apart. The resulting correlation coefficients between the test scores from two administrations
339 must be .75 or higher.

340

341 When a college locally manages a second-party test, the stability coefficients from the test
342 publisher or another college may be cited to meet this requirement.

343

344 **b. Variability over items (internal consistency reliability)**

345

346 Internal consistency reliability represents the agreement among test items measuring the
347 same construct. Evidence documenting the internal consistency reliability must be based on
348 appropriate analyses (e.g., alpha coefficient, split-half coefficient, Kuder-Richardson index, or
349 indices based on test information curves). The minimum acceptable value for these internal
350 consistency indices is .80.

351

352 When a college locally manages a second-party test, the internal consistency reliability
353 coefficients from the test publisher or another college may be cited to meet this requirement.

354

355 **c. Variability over parallel forms (equivalent-form or inter-prompt reliability)**

356

357 When there are multiple test forms, question sets, prompts, or tasks used concurrently to
358 produce interchangeable test scores for placement recommendations, the score variability
359 over those forms/question sets/prompts/tasks must be evaluated and reported. A college
360 may use correlation coefficients to evaluate the equivalency between scores on different
361 forms/question sets/prompts/tasks, and the correlation coefficients must be .75 or higher. As
362 an alternative approach, colleges may conduct random assignments of forms/question
363 sets/prompts/tasks and evaluate the comparability of the resulted score distributions.

364

365 When a college locally manages a second-party test, the parallel-form reliability coefficients
366 from the test publisher or another college may be cited to meet this requirement.

367

368 **d. Variability over raters (inter-scorer reliability)**

369

370 **For direct performance assessments** (e.g., writing samples), where score assignments involve
371 subjective judgments, inter-scorer consistency must be evaluated to support the usage of
372 these assessments:

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- 373 • If inter-scorer correlation coefficients are provided, these coefficients must be .70 or
374 higher.
- 375 • If percent agreement indices are provided, they must indicate a high level of
376 consistency. For example, if a 6-point scale is used, it is expected to have at least 90
377 percent score agreement within a 1-scale-point difference.
- 378 • If Cohen's Kappa coefficients (a chance-corrected agreement index) are provided, they
379 must be .40 or higher.
- 380 • When appropriate, other recognized chance-corrected agreement indices can also be
381 used to support inter-score reliability.

382

383 A description of how raters are trained to administer the instrument/task and apply the
384 scoring rules consistently must be documented. Additionally, the methods used for resolving
385 inconsistencies between scorers should be described and justified.

386

387 Colleges **cannot** cite inter-score reliability coefficients from the test publisher or another
388 college to meet this requirement.

389

390 **e. Standard errors of measurement (SEM)**

391

392 Standard errors of measurement must be provided for intervals across the score scale or at
393 likely cut points.

394

395 **f. Reliability of subscores**

396

397 When subscores are used to assist placement recommendations, reliability evidence
398 ([Subsections I.3.a. through I.3.e.](#)) must be demonstrated for each subscore.

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II. Specific Criteria for Second-Party Tests: Primary Responsibility of the Test Developer

Second-party publishers' responsibilities are delineated in this section. At a minimum, second-party publishers must provide acceptable documentation addressing **all** of the following:

- Fairness based on **both** empirical and logical analysis findings.
- Specificity of test objectives and test content.
- Acceptable criterion-related or consequential-related validity evidence.
- Accessibility of the testing instruments to students with disabilities or alternative accessible arrangements that are offered for such individuals.

However, meeting the minimum requirements is **not** sufficient to attain Full Approval status. Second-party publishers should carefully consider all requirements in this section for Full Approval.

1. Fairness

a. Logical and empirical review of bias, insensitivity, and offensiveness

Evidence focusing on the lack of cultural and/or linguistic bias, insensitivity, and offensiveness must be provided. Federal and state anti-discrimination laws and guidelines should be consulted for identifying relevant protected classes. As a general rule, when a protected class (as designated by race, gender, age, and disability) constitutes at least two percent of the California community college student population, that group should be represented in the investigation. For tests of English language proficiency used for the English learner population (i.e., English as a second language or ESL tests), the linguistic and cultural background of test takers must also be considered. Test publishers must provide fairness evidence from two types of studies: "logical review" and "empirical review."

In a logical review, test items, prompts, and scoring rubrics must be reviewed by diverse panels of people who demographically represent the California community college's student population. A description of the panel members' qualifications and demographic representations must be included. At least two reviewers representing each protected class must be included in the logical review. Test publishers, employees of test publishers, persons who are involved in test development or item writing, or persons who may have a conflict of interest may not participate in logical reviews. The review guidelines, procedures, and training should be described.

An empirical review of test data and item performance (e.g., differential item functioning) must be conducted on data from students similar to those ordinarily served by the California community colleges. Analysis must be based on sufficient sample sizes for protected classes. Follow-up investigation must be described if any item is flagged by the empirical review.

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443 The determination of potential bias from these investigations must be used to eliminate or
444 minimize sources of test/item bias, insensitivity, and offensiveness. Item removal must be
445 documented and justifications must be provided for item retention or revision.

446

447 When assessment procedures are in place to minimize potential bias—for example, by
448 providing students a choice of questions, prompts, or tasks—then the procedures must be
449 clearly stated and described.

450

451 **b. Testing special groups**

452

453 Test publishers must agree to provide the test and response forms in alternate media upon
454 request of a college. Testing instruments must be accessible to students with disabilities or
455 publishers must offer alternative accessible arrangements for such individuals (e.g., braille,
456 large print, audiotape, and electronic tests). Such a commitment is required for a test to
457 receive any level of approval from the Chancellor’s Office.

458

459 **2. Validity**

460

461 **a. Content-related validity evidence**

462

463 Explicit statements of test objectives and table of specifications must be available to inform
464 test users. Test publishers must describe the test content (items and item formats) with
465 sufficient and clear specificity for colleges to evaluate the test's appropriateness for making
466 placement recommendations at their colleges.

467

468 Upon request, test publishers must provide an operational test booklet or, in the case of
469 computer-adaptive tests, a sufficient representative sample of operational test items to
470 enable local colleges to conduct an item-by-item review. Retired items or forms are not
471 acceptable. If a sample of items is provided, the number of items must represent a
472 psychometrically sound single form of a traditional fixed form of the test.

473

474 **b. Criterion-related or consequential-related validity evidence**

475

476 Data must be presented to indicate that the test is useful for making placement
477 recommendations into courses offered in the California community colleges. Empirical
478 evidence must support the following conclusion: Test takers who achieve scores within some
479 specified range should enroll in a different course or set of courses in comparison with test
480 takers who score outside that range. When submitting evidence to meet this standard, the
481 course content must bear a close logical relationship with courses offered by the California
482 community colleges, and the student samples must be demographically representative of the
483 students ordinarily served by the California community colleges.

484

485 Supportive data from at least **six** community colleges in six different districts representing the
486 diversity of courses and students in the California community colleges are required to attain

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487 Full Approval status; supportive data from at least **four** community colleges in four different
488 districts are required to attain Provisional Approval status; and supportive data from at least
489 **three** community colleges in three different districts are required to attain Probationary
490 Approval status. **Additionally, a majority of the colleges included must be California**
491 **community colleges** to attain a specific approval level status (i.e., 4 of 6, 3 of 4, or 2 of 3
492 respectively for Full, Provisional, and Probationary Approval status). An instrument can be
493 piloted to gather needed information prior to approval but it cannot be used for course
494 placement purposes until it receives at least Probationary Approval from the Chancellor. Until
495 some level of approval is received, colleges are prohibited from using an unapproved test for
496 making placement recommendations.

497
498 Either criterion-related or consequential-related evidence is appropriate for meeting this
499 standard with the determination as to which evidence is most appropriate being based on the
500 following general principle:

- 501 • Criterion-related studies are appropriate for a new test that has **not** yet been
502 approved and whose test scores have **not** been used for course placement.
- 503 • Consequential-related studies are appropriate for a previously approved test whose
504 test scores have been used for course placement.

505
506 For criterion-related validity studies, a variety of research designs are acceptable including
507 mean comparisons or correlational designs. Appropriate criterion variables may include, but
508 are not limited to, any of the following:

- 509 • Student ratings of ability to meet course requirements
- 510 • Instructor ratings of students' abilities to meet course requirements
- 511 • Midterm grades or test scores
- 512 • Final course grades or test scores

513
514 When used as the primary index for criterion-related validity, the coefficient of the
515 correlation between the test score and the criterion must be greater than or equal to .35 (or a
516 comparable effect size if an alternative statistical analysis was performed). Coefficients
517 corrected for range restrictions (either on the test score, on the criterion, or both) are
518 acceptable if a rational foundation is presented for their use.

519
520 **For consequential-related validity studies**, the following research questions are to be
521 considered:

- 522 (i) After the first few weeks of a course (e.g., between the fourth and sixth weeks), how do
523 students whose test scores recommended placement into that class evaluate the
524 appropriateness of their course placement (e.g., placed in the correct/proper course,
525 should have been placed in a higher course, should have been placed in a lower
526 course)? The standard is at least 75 percent affirmative endorsement by students.
- 527 (ii) After the first few weeks of a course (e.g., between the fourth and sixth weeks), how do
528 instructors evaluate the readiness to undertake the material of the course for
529 individual students whose test scores recommended placement into that course?

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- 530 The standard is at least 75 percent of students are considered properly placed by
531 instructors.
- 532 (iii) For students who choose not to follow a test’s course placement recommendation,
533 how do these students fare (in terms of material learned, suitability of the placement,
534 and their likelihood of successful matriculation) in the classes into which they choose
535 to enroll, and can such performance be justified/expected?
- 536 (iv) What do students and instructors identify as undesirable results of an “incorrect”
537 course placement and what are the consequences (for students, instructors, academic
538 units, and the institution) of such decisions?

539

540 Under any approach chosen by a college for investigating consequential-related validity, at a
541 minimum, items (i) and (ii) above must be formally addressed and satisfied for the instrument
542 to be fully approved. Items (iii) and (iv) are optional and supplementary; although they are not
543 required, they can be extremely useful sources of information to colleges that may choose to
544 pursue such lines of inquiry. Other supplemental research questions are possible, and
545 comparable investigative orientations that involve students and instructors are encouraged.

546

547 Determining the methods and procedures for carrying out validation studies is the publisher’s
548 decision. However, publishers are expected to follow proper and reasonable investigative
549 approaches, including obtaining sufficient sample sizes and maintaining objective judgments
550 (or impartiality) by using double blind experimentation. Publishers may report aggregated
551 results across colleges; however, publishers must also separately report findings for each
552 participating college. Further, a minimum sample size of 30 students is required for each
553 course in a consequential-related validity study.

554

555 **c. Validity evidence for subscores**

556

557 When subscores are used to assist placement recommendations, validity evidence
558 ([Subsections II.2.a. through II.2.b.](#)) must be demonstrated for each subscore.

559

560 **3. Reliability and Errors of Measurement**

561

562 Test publishers are responsible for evaluating all relevant sources of measurement errors. The
563 sources of measurement errors may include score variability over testing occasions, item
564 sampling, alternate forms, or scorers. Multiple forms of reliability evidence may be required
565 depending on the nature of the test (e.g., direct performance assessment) and its score
566 usage. However, the stability of test performance over testing occasions is particularly
567 relevant for all placement tests in the California community colleges; therefore, test-retest
568 reliability must be evaluated by test publishers. The minimum sample size for a reliability
569 analysis is 50 students.

570

571

572

573 **a. Variability over testing occasions (test-retest reliability)**

574

575 Test score stability may be assessed by administering the test on two occasions to the same
576 student sample. The design may involve administering the same test form twice (test-retest
577 approach) or using alternate test forms for the two administrations (equivalent-form
578 approach). In order to assess stability, the two testing occasions must be at least two weeks
579 apart. The resulting correlation coefficients between the test scores from two administrations
580 must be .75 or higher.

581

582 **b. Variability over items (internal consistency reliability)**

583

584 Internal consistency reliability represents the agreement among test items measuring the
585 same construct. Evidence documenting the internal consistency reliability must be based on
586 appropriate analyses (e.g., alpha coefficient, split-half coefficient, Kuder-Richardson index, or
587 indices based on test information curves). The minimum acceptable value for these internal
588 consistency indices is .80.

589

590 **c. Variability over parallel forms (equivalent-form or inter-prompt reliability)**

591

592 When there are multiple test forms, question sets, prompts, or tasks used concurrently to
593 produce interchangeable test scores for placement recommendations, the score variability
594 over those forms/question sets/prompts/tasks must be evaluated and reported. When
595 correlation coefficients are used to evaluate the equivalency between scores on different
596 forms/question sets/prompts/tasks, the correlation coefficients must be .75 or higher.

597

598 **d. Variability over raters (inter-scorer reliability)**

599

600 **For direct performance assessments** (e.g., writing samples), where score assignments involve
601 subjective judgments, inter-scorer consistency must be evaluated to support the usage of
602 these assessments:

- 603 • If inter-scorer correlation coefficients are provided, these coefficients must be .70 or
604 higher.
- 605 • If percent agreement indices are provided, they must indicate a high level of
606 consistency. For example, if a 6-point scale is used, it is expected to have at least 90
607 percent score agreement within a 1-scale-point difference.
- 608 • If Cohen's Kappa coefficients (a chance-corrected agreement index) are provided, they
609 must be .40 or higher.
- 610 • When appropriate, other recognized chance-corrected agreement indices can also be
611 used to support inter-score reliability.

612

613 Additionally, the methods used for resolving inconsistencies between scorers should be
614 described and justified.

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615

616 **e. Standard errors of measurement**

617

618 Standard errors of measurement must be provided for intervals across the score scale or at
619 likely cut points.

620

621 **f. Reliability of subscores**

622

623 When subscores are used to assist placement recommendations, reliability evidence
624 ([Subsections II.3.a. through II.3.e.](#)) must be demonstrated for each subscore.

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III. Specific Criteria for Second-Party Tests: Primary Responsibility of the Local College or District as Test User

When using a second-party test, each college retains the responsibilities for documenting fairness, validity, and reliability of test scores and how they are used locally. For each course sequence in which the test is used for placement, the college must maintain an assessment portfolio containing the following evidence to support the test as appropriate and valid:

- Fairness evidence (entails a review of the test publisher’s evidence addressing test bias)
- Validity evidence
- Reliability evidence
 - For direct performance assessments, reliability studies are required.
 - For all other tests, a review of the test publisher’s reliability evidence is required.

The assessment portfolio must be updated at least every six years, with the exception of disproportionate impact analyses that must be updated at least every three years. Assessment portfolios do not need to be submitted to the Chancellor’s Office.

1. Fairness

a. Review of bias, insensitivity, and offensiveness

Local community colleges must review the evidence addressing test bias supplied by the test publisher to ensure that the results are generalizable to the student demographics at their colleges.

b. Disproportionate impact

Local community colleges must conduct a disproportionate impact study according to the approach described in [Section FOUR, Subsection I.1.b.](#) (see p. 28). The disproportionate impact study must be updated every three years.

c. Standardization

If the instrument is revised for testing individuals who cannot take the test under standard conditions, there must be documentation of all changes along with the basis for each accommodation. The justification for changing or altering assessment instruments or procedures must be kept on file at the local college.

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667

668 **2. Validity**

669

670 **a. Content-related validity evidence**

671

672 Local community colleges must conduct a content-related validity study according to [Section](#)
673 [FOUR, Subsection 1.2.a.](#) (see p. 29).

674

675 **b. Evidence addressing adequacy of the cut score(s)**

676

677 Local community colleges must conduct a cut-score validity study according to [Section FOUR,](#)
678 [Subsection 1.2.c.](#) (see p. 30).

679

680 **3. Reliability and Errors of Measurement**

681

682 Local community colleges must review the evidence addressing reliability and standard errors
683 of measurement supplied by the test publisher to ensure that the results are generalizable to
684 their colleges.

685

686 **For direct performance assessments,** colleges must conduct local inter-scorer reliability
687 studies to ensure score consistency on their campus.

688

689 **IV. Additional Criteria for Computer-Based Testing**

690

691 Assessments can differ in terms of test delivery mode (e.g., paper-and-pencil, oral, or
692 computerized administration). Advancements in technology and psychometric models in the
693 past decades permits further flexibility of testing and allows different forms to be
694 administered to different students. Computer-based tests can be traditional fixed-form tests
695 administered via computer, they can be assessments using complex algorithms to produce
696 random test forms (i.e., linear-on-the-fly testing, or they can be assessments that produce
697 unique test forms based on examinees' ability levels (i.e., computer-adaptive testing or CAT).

698

699 In most cases, the criteria presented in previous subsections (I, II, and III) apply to computer-
700 based testing. However, because of the technology and often complex item types involved in
701 computer-based tests, other criteria have been enhanced. Further, as the technology used in
702 computer-based testing continues to evolve, test developers and users are advised to contact
703 the Chancellor's Office to determine if there may have been changes to these specific criteria.
704 Publishers are encouraged to present and discuss their methodology and psychometric
705 results using non-technical language for prospective California community college users.

706

707 **If a computer-based test was previously approved in a paper-and-pencil format**, the prior
708 approval status for the paper-and-pencil test does not automatically transfer to the computer
709 version of the assessment. A primary means to accomplish this is through an evaluation of
710 equivalent-form reliability. The equivalent-form reliability coefficient for the computer-based
711 and paper-and-pencil forms must be at least .80. If this equivalent-form reliability is
712 established, the computer-based test can receive some level of approval for use.

713

714 However, publishers are not limited to the equivalent-form design. Alternative data gathering
715 and analysis models will be considered if a rationale is provided—and that rationale is
716 considered valid by the Chancellor's Office. The analysis used must result in a high level of
717 consistency between scores from the different formats. Alternatively, the computer-based
718 version of a previously approved paper-and-pencil test can be submitted as a new application
719 if the claim of test equivalency is not intended.

720

721 **Computer-adaptive tests** rely on item banks (also known as item pools) from which items are
722 chosen as testing is initiated or underway (i.e., a variable collection of questions is
723 administered to examinees). Publishers of these tests must demonstrate the quality of the
724 item banks and the quality of the collections of items selected for administration to students.
725 The publishers must also provide specifications of the item bank, documentation of the
726 algorithms used to select items, and the method to reach a final student's result. This
727 information is needed to ensure that items are representative of and appropriate for the
728 content domain being evaluated.

729

730 Administrative manuals must address and detail the technical properties of computer-based
731 tests. Considerations of score interpretation and scoring algorithms, how initiating items are

Section FOUR

732 chosen, stopping rules, item exposure control, security, and any non-traditional
733 administrations must be formally and completely described. Suitable accommodations for
734 examinees with special needs must also be provided.

735

736 The manuals made available to test administrators must clearly and explicitly detail
737 instructions specifically applicable to computer-based test administrations (e.g., how to save
738 data, how to re-administer an assessment when there is a power failure or machine lock-up,
739 and how to attend to examinees who evidence significant anxiety related to the testing
740 format).

741

742 **1. Fairness**

743

744 **a. Logical and empirical review of bias, insensitivity, and offensiveness**

745

746 All operational items in the item bank must undergo review for bias, insensitivity, and
747 offensiveness. The standards described in [Section FOUR, Subsections I.1.a.](#) (see p. 27) and [II.1.a.](#)
748 (see p. 35) are applicable to locally developed/managed computer-based tests and second-
749 party computer-based tests, respectively.

750

751 **b. Technology availability and familiarity**

752

753 Students' lack of familiarity with technology and complex/innovative item types must not
754 unfairly impact their ability to demonstrate content-related skills with computer-based
755 testing. Therefore, test developers must provide **all** of the following:

756

- Documentation of required and recommended technology infrastructures, devices,
757 and software.

758

- Sample interface of testing modules.

759

- Description of test instructions to examiners and examinees (e.g., time limit, how to
760 respond to different item types, whether items can be skipped and revisited later in
761 the testing).

762

- Training and assistance for examinees to assure that the testing format does not
763 interfere with the achievement estimate for the examinee.

764

765 **c. Testing special groups**

766

767 Testing instruments must be accessible to all students including students with disabilities.
768 Test developers/publishers must provide alternative accessible arrangements (e.g., paper-
769 and-pencil format, braille, large print, audiotape, and electronic tests) when requested. Such
770 a commitment is required for a test to receive any level of approval from the Chancellor's
771 Office.

772

773

774

775 **2. Validity**

776

777 **a. Content-related validity evidence**

778

779 The standards described in [Section FOUR, Subsections I.2.a.](#) (see page 29) and [II.2.a.](#) (see page
780 36) are applicable to locally developed/managed computer-based tests and second-party
781 computer-based tests, respectively.

782

783 **For all computer-based tests**, including adaptive tests, the evidence for supporting content-
784 related validity must also include the following:

- 785 • A test blueprint (or table of specifications) so local colleges know the construct being
786 evaluated and how/which items (content and cognitive areas) are being used
787 (distributed) on forms of the test to arrive at a score(s).
- 788 • Information for prospective college users on how to access all or a sufficiently large
789 and representative sample of operational test items, performance tasks, and/or test
790 forms.
- 791 • For a machine-scored direct performance assessment, a description of the scoring
792 engine, including its development process, scoring criteria, rules, and algorithms. This
793 description must include enough specifics so local colleges can evaluate the content
794 validity of the machine-generated scores. In addition, example papers for each score
795 point must be available to local colleges upon request.

796

797 In addition, **for computer-adaptive tests**, the supporting evidence must also include **all** of the
798 following:

- 799 • Documentation of the item bank, including pool size and the composition of the pool
800 in terms of construct/content/cognitive domain (i.e., all item features considered in
801 the table of specifications) and psychometric properties.
- 802 • Goals of the item-selection mechanism and documentation of algorithms used for
803 item selection during the entire test administration cycle and termination criterion.
- 804 • Discussion of rules or restrictions about content specifications, item bundles, enemy
805 items, and exposure control, when applicable.
- 806 • When multistage testing or testlet-based designs are implemented, documentation of
807 the routing of first-stage tests, the second-stage tests, and so on must be presented
808 and justified for each stage. In addition, the decision rules moving the examinee on to
809 stages/levels/testlets are to be presented in terms of cognitive and content
810 specifications, and these rules must be justified.
- 811 • Sufficient representative samples of active (not retired) test items. Item samples may
812 be in the format of a fixed parallel form of the test or examples of testing forms
813 assembled by computer for students at different proficiency levels.
- 814 • When automated item generation is used, this design and methodology must be
815 discussed at length and validation evidence presented that clearly supports the
816 methodology.

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- 824
- Documentation of the item bank maintenance plan, providing a timeframe and procedures for reviewing, refreshing, retiring, and replacing items in the item pool(s).
 - If 20 percent or more of the item bank has changed (additions, removals, or revisions) since the test was last approved, the publisher is required to submit a new application within one year of when the changes reached the 20 percent threshold, even if it is prior to the six-year renewal deadline. A statement must be included in all application materials that the publisher acknowledges and will abide by this requirement.

825 **b. Criterion-related or consequential-related validity evidence**

826

827 The standards described in [Section FOUR, Subsections I.2.b.](#) (see p. 30) and [II.2.b.](#) (see p. 36) are
828 applicable to locally developed/managed computer-based tests and second-party computer-
829 based tests, respectively.

830

831 **c. Validity evidence for subscores**

832

833 When subscores are used to assist placement recommendations, validity evidence
834 ([Subsections IV.2.a. through IV.2.b.](#)) must be demonstrated for each subscore.

835

836 **d. Other validity evidence**

837

838 **For computer-adaptive tests**, the supporting evidence must also include all of the following:

839

- A description of the classical test theory (CTT) or item response theory (IRT) model(s) used for constructing the test, including the explicit scoring algorithm and scaling employed. An examination of the model fit or dimensionality assumptions must be conducted to support the model(s) used for test construction.
- A description of item calibration studies (including sample size, sample characteristics, and year of data collection) for obtaining item parameter estimates.
- A description of equating/linking/concordance studies when applicable.

840

841

842

843

844

845

846

847 **3. Reliability and Errors of Measurement**

848

849 **a. Variability over testing occasions (test-retest reliability)**

850

851 The standards described in [Section FOUR, Subsections I.3.a.](#) (see p. 33) and [II.3.a.](#) (see p. 38)
852 are applicable to locally developed/managed computer-based tests and second-party
853 computer-based tests, respectively.

854

855 **b. Variability over items (internal consistency reliability)**

856

857 **For fixed-form computer-based tests (i.e., non-adaptive tests)**, the standards described in

858

[Section FOUR, Subsections I.3.b.](#) (see p. 33) and [II.3.b.](#) (see p. 39) are applicable.

859

Section FOUR

860 **For computer-adaptive tests or tests developed with IRT model(s)**, internal consistency may
861 be demonstrated with IRT-based reliability estimate, test information function, or conditional
862 standard error of measurement.

863

864 **c. Variability over parallel forms (equivalent-form reliability)**

865

866 The standards described in [Section FOUR, Subsections I.3.c.](#) (see p. 33) and [II.3.c.](#) (see p. 39) are
867 applicable to fixed-form computer-based tests. However, equivalent-form reliability is not
868 applicable to computer-adaptive tests and thus not required.

869

870 **d. Variability over raters (inter-scorer reliability)**

871

872 The standards described in [Section FOUR, Subsections I.3.d.](#) (see p. 33) and [II.3.d.](#) (see p. 39)
873 are applicable to locally developed/managed computer-based tests and second-party
874 computer-based tests, respectively.

875

876 If student work for a direct performance assessment is machine scored using artificial
877 intelligence scoring algorithms, the consistency between computer scoring and expert human
878 scorers must be demonstrated. The indices and benchmarks specified in Section FOUR,
879 Subsections I.3.d and II.3.d are applicable.

880

881 **e. Standard errors of measurement**

882

883 The standards described in [Section FOUR, Subsections I.3.e.](#) (see p. 34) and [II.3.e.](#) (see p. 39)
884 are applicable to locally developed/managed computer-based tests and second-party
885 computer-based tests, respectively.

886

887 **f. Reliability of subscores**

888

889 When subscores are used to assist placement recommendations, the reliability evidence
890 ([Subsections IV.3.a. through IV.3.e.](#)) must be demonstrated for each subscore in addition to
891 the overall test score.

1 **SECTION FIVE: CRITICAL MASS APPROVAL OF AN INSTRUMENT**

2
3 The concept of "critical mass" pertains to situations where evidence on a specific assessment
4 instrument has been accumulated across several California community colleges such that its
5 approval status may be generalizable to other colleges. The principle of critical mass and
6 criteria for its application in attaining approval are outlined in the following paragraphs.
7

8 Specifically, any test instrument that has been approved for use in a minimum of six colleges
9 from six different California community college districts as a locally managed instrument may
10 be considered as reaching critical mass of evidence for the instrument to be used in other
11 colleges. The evidence from the six colleges must be of the same version of the instrument.
12 After approval as a critical-mass instrument, the instrument can be used by any California
13 community colleges in the same fashion as a second-party test.
14

15 Critical mass can be achieved in one of two ways:

- 16
- 17 1. A minimum of six colleges from at least six different California community college
18 districts have independently attained some level of approval for the same version of a
19 test.
20
 - 21 • Colleges following this process independently submit as colleges locally
22 developing or managing a test, and the criteria for locally developed/managed
23 tests (i.e., [Section FOUR, Subsection I](#)) would be followed.
24
 - 25 • The colleges may have gained approval concurrently or over time. The critical
26 factor is that at least six colleges have approval at the same time.
27
 - 28 • Disproportionate impact studies are not required for a critical mass approval,
29 although disproportionate impact must be addressed in a local college
30 application.
31
 - 32 • There must be at least one validity study using empirical data (e.g., consequential
33 validity or criterion validity) for critical mass approval.
34
 - 35 2. A consortium of a minimum of six colleges from at least six different California
36 community college districts collaborate on their submission efforts, and, as a group,
37 provide the required data as one submission. A consortium application must address
38 test fairness, validity, reliability, and accommodations for special groups.
39

Section FIVE

- 40 • A consortium of colleges that wishes to follow the critical mass process needs to
41 apply in writing to the Chancellor's Office providing notification of its intent and
42 justification for that approach.
43
- 44 • The concept of critical mass allows the consortium to generalize fairness and
45 reliability of an assessment instrument without having to replicate all of the data
46 collection normally required for a locally developed or managed test. Group
47 studies or aggregated data could be submitted for fairness/test bias and reliability.
48
- 49 • In submitting evidence as a consortium, validity studies must be conducted by each
50 college. Relevant and satisfactory validity evidence--including content validity,
51 criterion validity, or consequential validity--will be accepted. However, there must
52 be a validation study using empirical data other than content validity.
53
- 54 • If the instrument is revised for testing individuals who cannot take the test under
55 standard conditions, there must be documentation of all changes along with the
56 basis for each accommodation.
57

58 In either case, for approval as a critical-mass test, the Assessment Advisory Committee and
59 the Chancellor's Office must determine that the six (or more) colleges are indeed from six (or
60 more) different California community college districts **and** that they collectively form a
61 representative sample of the California community college student population including
62 gender, age, race/ethnicity, region, etc.
63

64 If the test garnered approval as a critical-mass test based on independent submissions (i.e.,
65 not through a consortium of colleges), the critical mass status is retained only for a period of
66 six years from when the first college gained approval, unless that college is approved again in
67 a timely manner under the renewal approval process or a consortium of colleges (as defined
68 above) has been approved in a timely manner through the renewal approval process.
69

70 If approval is granted, the test will be placed on the Chancellor's Office's approved list as a
71 critical-mass test. Any California community college can use an approved critical-mass test on
72 its campus. When using a critical-mass test, the local college assumes the same
73 responsibilities as those responsibilities it has when using a second-party test. In other
74 words, the criteria described in [Section FOUR, Subsection III](#) are applicable to the college using
75 a critical-mass test.
76

1 **SECTION SIX: RENEWAL OF AN INSTRUMENT'S APPROVAL STATUS**

2
3 The length of time a test can be available for use by the colleges varies by specific approval
4 category. (See [pp. 21-22](#) for the tenure interval for each approval category.) Regardless, a test
5 can only be considered approved for a maximum of six years starting when status in any of
6 the three approval categories is attained. After this six-year maximum tenure interval, unless
7 new supporting documentation has been submitted and favorably reviewed for its continued
8 use in the California community colleges, the instrument will be downgraded automatically to
9 the Not Approved status.

10
11 Sufficient evidence addressing relevant standards must be submitted in advance of the six-
12 year expiration date to allow for a timely renewal of the instrument to be retained on the
13 Chancellor's Office List of Approved Assessment Instruments. Second-party publishers must
14 resubmit information and documentation during the fifth year of approval so that continued
15 use can be maintained by colleges. Similarly, colleges with locally developed/managed tests
16 should resubmit information and documentation during the fifth year of approval.

17
18 The approval renewal process is viewed as a time when tests, evidence, and procedures are to
19 be reexamined relative to their appropriateness and continued use for placement in the
20 California community colleges. This renewal requirement is derived from the premise that
21 collecting and evaluating fairness, validity, and reliability evidence should be an ongoing and
22 continuous process. It should be noted that when changes occurred to the test instrument
23 (e.g., changes in items, scoring method, and/or norms) or to the proposed instrument usage
24 (e.g., different curriculum or course sequence), the test shall be reviewed as a new
25 instrument rather than renewal. Other changes triggering a new test review include:

- 26 • For a computer-adaptive test, 20 percent or more items in the item bank have been
27 changed (additions, removals, or revisions).
- 28 • For a locally developed/managed test, the student population at the college has
29 changed significantly since the test was last approved.

30
31 The extent to which the standards (fairness, validity, and reliability) are to be addressed was
32 detailed in Section FOUR of this document. Table 3 and Table 4 in Appendix D summarize the
33 specific requirements for each standard that colleges locally developing or managing tests
34 and second-party publishers need to meet for a renewal approval. Studies and data used to
35 support instrument renewal must be conducted/compiled within the three-year period prior
36 to the renewal application.

37
38 An assessment instrument under renewal review may be placed in any one of the three
39 approval categories or may be placed in the Not Approved category. If a renewed test initially
40 receives Provisional Approval or Probationary Approval, the timelines for attaining Full Approval
41 status are the same as for first-time approval requests described on [pages 21-22](#).

1 **SECTION SEVEN: MULTIPLE MEASURES**

2
3 California Code of Regulations, title 5, section 55522 requires that when colleges use an
4 assessment for course placement, “it must be used with one or more other measures to
5 comprise multiple measures.” Title 5, section 55502(i) further defines the “multiple
6 measures” as “a required component of a district’s assessment system and refers to the use
7 of more than one assessment measure in order to assess the student. Other measures that
8 may comprise multiple measures include, but are not limited to, interviews, holistic scoring
9 processes, attitude surveys, vocational or career aptitude and interest inventories, high
10 school or college transcripts, specialized certificates or licenses, education and employment
11 histories, and military training and experience.” Other than education, demographic factors
12 or personal student data (such as racial or ethnic origin, political or religious affiliation, trade-
13 union membership, or health status) are not valid multiple measures.

14
15 The measures chosen must be evidence-based. Multiple measures should be of different
16 formats to allow students multiple opportunities to illustrate their knowledge and readiness.
17 Therefore, using two or more highly correlated tests does not satisfy the requirement for the
18 use of multiple measures. The exception is the use of EAP, SAT, and ACT scores, which the
19 Chancellor’s Office has approved for use as multiple measures, or, in the case of the EAP, as a
20 waiver to place students directly in transfer-level coursework (see the [July 2015 memo](#) from
21 the Chancellor’s Office). The goal of multiple measures is to achieve a more comprehensive
22 student assessment than relying on a single measure or a single test.

23
24 Through continued validation, monitoring and refinement of the multiple measures system,
25 the expectation is that the college will identify an appropriate combination of methods to
26 most accurately assess students’ capacity to succeed in courses into which they are placed.
27 An evaluation may include gathering data on consequential-related evidence, course success
28 rates, and the likelihood of a student completing the course sequence from basic skills
29 through transfer-level. See the RP Group’s publication, “[Validating Placement Systems
30 Comprising Test and Multiple Measure Information.](#)”

31
32 Effects on students’ placement accuracy, student success, and its potential disproportionate
33 impact on course placement recommendations must be investigated and reviewed at least
34 every three years. Collecting and evaluating validity evidence for multiple measures must be
35 an ongoing and continuous process. **Colleges must maintain a portfolio for the multiple
36 measures system that includes an up-to-date description of the system, the evidence of
37 fairness and effectiveness of the system, and the history logs of the evolutions of the
38 system.**

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Appendix A

APPENDICES

Appendix A

Appendix A: Relevant Education Code Sections

Appendix A

California Education Code TITLE 3. POSTSECONDARY EDUCATION

Section 78213.

(a) No district or college may use any assessment instrument for the purposes of this article without the authorization of the board of governors. The board of governors may adopt a list of authorized assessment instruments pursuant to the policies and procedures developed pursuant to this section and the intent of this article. The board of governors may waive this requirement as to any assessment instrument pending evaluation.

(b) The board of governors shall review all assessment instruments to ensure that they meet all of the following requirements:

(1) Assessment instruments shall be sensitive to cultural and language differences between students, and shall be adapted as necessary to accommodate students with disabilities.

(2) Assessment instruments shall be used as an advisory tool to assist students in the selection of appropriate courses.

(3) Assessment instruments shall not be used to exclude students from admission to community colleges.

(c) The board of governors shall establish an advisory committee to review and make recommendations concerning all assessment instruments used by districts and colleges pursuant to this article.

(d) For purposes of this section, "assessment" means the process of gathering information about a student regarding the student's study skills, English language proficiency, computational skills, aptitudes, goals, learning skills, career aspirations, academic performance, and need for special services. Assessment methods may include, but not necessarily be limited to, interviews, standardized tests, attitude surveys, vocational or career aptitude and interest inventories, high school or postsecondary transcripts, specialized certificates or licenses, educational histories, and other measures of performance.

78214.

(a) All participating districts shall, with the assistance of the chancellor, establish and maintain institutional research to evaluate the effectiveness of the Student Success and Support Program described by this article and of any other programs or services designed to facilitate students' completion of their educational goals and courses of study.

(b) The metrics for this research shall include, but not be limited to:

(1) Prior educational experience, including transcripts when appropriate, as determined by the chancellor.

(2) Educational goals and courses of study.

(3) Criteria for exemption from orientation, assessment, or required counseling or advisement, if applicable.

(4) Need for financial assistance.

(5) Disaggregated data by ethnicity, gender, disability, age, and socioeconomic status, to the extent this information is available.

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(6) Academic performance, such as the completion of specified unit thresholds, success in basic skills courses, grade point average, course completion outcomes, transfer readiness, and degree and certificate completion.

(7) Any additional information that the chancellor finds appropriate.

(c) The evaluation provided for by this section shall include an assessment of the effectiveness of the programs and services in attaining at least the following objectives:

(1) Helping students to define their academic and career goals and declare a course of study.

(2) Assisting institutions in the assessment of students' educational needs and valid course placement.

3) Helping support students' successful course completion and goal attainment.

(4) Matching institutional resources with students' educational needs.

California Code of Regulations
Title 5 [sections relevant to assessment]

Section 55502. Definitions

For purposes of this subchapter, the following definitions shall apply:

(a) "Assessment for placement" hereinafter referred to as "assessment" is the process of gathering information about individual students in order to identify their skill level and appropriately direct them to courses for which they are prepared. Information used in the assessment process may include, but is not limited to, information regarding the student's study skills, English language proficiency, computational skills, aptitudes, goals, learning skills, career aspirations, academic performance, and need for special services. Assessment involves the collection of such information for purposes of course placement.

(b) "Assessment test" is a validated, standardized, or locally-developed test used in addition to other measures in the course placement process.

(e) "Disproportionate impact" in broad terms is a condition where access to key resources and supports or academic success may be hampered by inequitable practices, policies, and approaches to student support or instructional practices affecting a specific group. For the purpose of assessment, disproportionate impact is when the percentage of persons from a particular racial, ethnic, gender, age, or disability group, who are directed to a particular service or course placement based on an assessment test or other measure is significantly different from the representation of that group in the population of persons being assessed, and that discrepancy is not justified by empirical evidence demonstrating that the assessment test or other measure is a valid and reliable predictor of performance in the relevant educational setting.

(i) "Multiple measures" are a required component of a district's assessment system and refer to the use of more than one assessment measure in order to assess the student. Other measures that may comprise multiple measures include, but are not limited to, interviews, holistic scoring processes, attitude surveys, vocational or career aptitude and interest inventories, high school or college transcripts, specialized certificates or licenses, education and employment histories, and military training and experience.

Section 55520. Required Services

At a minimum, each community college district shall provide students, except as exempted pursuant to section 55532, with all of the following Student Success and Support Program services:

(a) orientation on a timely basis, pursuant to section 55521.

(b) assessment for all nonexempt students pursuant to section 55522;

Section 55522. English and Mathematics Placement and Assessment

(a) The Chancellor shall establish and update, at least annually, a list of approved assessment tests for use in placing students in English, mathematics, or English as a Second Language (ESL) courses and guidelines for their use by community college districts. When using an English, mathematics, or ESL assessment test for placement, it must be used with one or more other measures to comprise multiple measures.

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(1) Districts and colleges are required to use the Chancellor's guidelines for the validation of all assessment tests used for placement to ensure that they minimize or eliminate cultural or linguistic bias and are being used in a valid manner. Based on this evaluation, the district or college shall determine whether any assessment test, method, or procedure has a disproportionate impact on particular groups of students, as defined by the Chancellor. When there is a disproportionate impact on any such group of students, the district or college shall, in consultation with the Chancellor, develop and implement a plan setting forth the steps the district will take to correct the disproportionate impact.

(2) The Chancellor may identify other measures of a student's college readiness that community college districts may use for student placement into the college's curriculum.

(b) Each community college district shall adopt procedures that are clearly communicated to students, regarding the college's sample test preparation, how the student test results will be used to inform placement decisions, and the district's limits on the student's ability to re-test.

(c) Community college districts shall not, except as provided in subdivision (d), do any of the following:

(1) use an assessment test for placement which has not been approved by the Chancellor pursuant to section 55522, except that the Chancellor may permit limited field-testing, under specified conditions, of new or alternative assessment tests;

(2) use any assessment test in a manner or for a purpose other than that for which it was developed or has been otherwise validated;

(3) use any assessment test process to exclude any person from admission to a college, except that a college may determine the admission of special part-time or full-time students under Education Code section 76002 based on an assessment which involves multiple measures and complies with other requirements of this subchapter; or

(4) use any assessment test, method, or procedure to exclude students from any particular course or educational program, except that districts may establish appropriate prerequisites pursuant to sections 55002 and 55003.

(5) use any Student Success and Support Program practice which has the purpose or effect of subjecting any person to unlawful discrimination prohibited by subchapter 5 (commencing with section 59300) of chapter 10.

(d) Notwithstanding the provisions of subdivision (c)(1) and (2), assessment tests approved by the Secretary of the United States Department of Education may be used to determine "ability to benefit" in the process of establishing a student's eligibility for federal financial aid pursuant to title 20 United States Code section 1091(d).

(e) Notwithstanding paragraphs (1), (2), (3) or (5) of subdivision (c) or the provisions of sections 55003 or 55522, a community college district may use an assessment test to select students for its nursing program, provided that:

(1) the district complies with all other provisions of this subchapter;

(2) the assessment test or other measures are used in conjunction with other assessment test, methods, or procedures to select students for enrollment in the nursing program; and

(3) the Chancellor has determined that the assessment test predicts likelihood of success in nursing programs, has approved use of the assessment test for that purpose and has established statewide proficiency cut-off scores for that test pursuant to Education Code section 78261.

Note: Authority cited: Section 11138, Government Code; and Sections 66700 and 70901, Education Code. Reference: Section 11135, Government Code; and Sections 72011, 76002, 78211, 78212, 78213 and 78261, Education Code.

Section 55522.5. English as a Second Language Placement and Assessment

(1) The Chancellor shall establish and update, at least annually, a list of the approved assessment tests and instruments for use in placing students in credit ESL courses and guidelines for their use by community college districts. When using an ESL assessment test for placement into credit ESL coursework, it must be used with one or more other measures to comprise multiple measures.

(2) Districts and colleges are required to use the Chancellor's guidelines for the validation of all assessment tests used for placement to ensure that they minimize or eliminate cultural or linguistic bias and are being used in a valid manner. Based on this evaluation, the district or college shall determine whether any assessment test, method, or procedure has a disproportionate impact on particular groups of students, as defined by the Chancellor. When there is a disproportionate impact on any such group of students, the district or college shall, in consultation with the Chancellor, develop and implement a plan setting forth the steps the district will take to correct the disproportionate impact.

(3) The Chancellor may identify other measures of a student's college readiness that community college districts may use for student placement into the college's curriculum.

(d) Each community college district utilizing approved assessment tests or instruments shall adopt procedures that are clearly communicated to students regarding the college's sample test preparation, how the student test results will be used to inform placement decisions, and the district's limits on the student's ability to re-test.

(e) Community college districts shall not, except as provided in subdivision (g), do any of the following:

(1) Use an assessment test for placement which has not been approved by the Chancellor pursuant to this section, except that the Chancellor may permit limited field-testing, under specified conditions, of new or alternative assessment tests;

(2) Use any assessment test in a manner or for a purpose other than that for which it was developed or has been otherwise validated;

(3) Use any assessment test process to exclude any person from admission to a college, except that a college may determine the admission of special part-time or full-time students under Education Code section 76002 based on an assessment which involves multiple measures and complies with other requirements of this subchapter;

(4) Use any assessment test, method, or procedure to exclude students from any particular course or educational program, except that districts may establish appropriate prerequisites pursuant to sections 55002 and 55003; or

(5) Use any Student Success and Support Program practice which has the purpose or effect of subjecting any person to unlawful discrimination prohibited by subchapter 5 (commencing with section 59300) of chapter 10.

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Note: Authority cited: Sections 66700 and 70901, Education Code. Reference: Sections 72011, 76002, 78211, 78212, 78213 and 78261, Education Code; and Section 11135, Government Code.

Section 55526. Accommodations

(a) Student Success and Support Program services for students with disabilities shall be appropriate to their needs, and colleges shall, where necessary, make modifications to the services provided or use alternative tests, methods, or procedures to accommodate the needs of such students. Colleges may require students requesting such accommodations to provide proof of need. Disabled Students Programs and Services (DSPS) is authorized, consistent with the provisions of subchapter 1 (commencing with section 56000), to provide specialized services and modified or alternative services as identified in 55520. Notwithstanding this authorization, participation in the DSPS program is voluntary and no student may be denied necessary accommodations in the assessment process because he or she chooses not to use specialized services provided by these programs.

(b) Student Success and Support Program services for students served by the Extended Opportunity Programs and Services (EOPS) who are disadvantaged by economic, social, and educational status shall be appropriate to their needs, and colleges shall, where necessary, make modification to the services provided or use alternative supports to meet the needs of such students. EOPS is authorized, consistent with the provisions of subchapter 2.5 (commencing with section 56200) of chapter 7 to provide services that are over, above, and in addition to services otherwise provided to all credit-enrolled students. Notwithstanding this authorization, participation in the EOPS program is voluntary and no student may be denied necessary supports because he or she chooses to not use specialized services provided by this program.

(c) Colleges shall ensure that Student Success and Support Program services are accessible for English language learners and are appropriate to their needs. Colleges shall, where necessary, make modifications to the services provided to accommodate the needs of such students. Modified or alternative services for limited or non-English-speaking students may be provided in English as a Second Language programs.

Note: Authority Note: Authority Section 11138, Government Code; Sections 66700, 70901 and 78213, Education Code. Reference: Section 11135, Government Code; and Sections 72011, 78211 and 78213, Education Code.

Section 55530. Student Rights and Responsibilities

(a) All students shall be required to:

- (1) identify an education and career goal;
- (2) diligently engage in course activities and complete assigned coursework; and
- (3) complete courses and maintain progress toward an education goal and completing a course of study.

(b) Nonexempt first time students shall, within a reasonable period of time, be required to:

- (1) identify a course of study.
- (2) be assessed to determine appropriate course placement.
- (3) complete an orientation activity provided by the college.

Appendix A

(4) participate in counseling, advising, or another education planning service pursuant to section 55523 to develop, at a minimum, an abbreviated student education plan.

(c) For the purposes of this section, a first time student is a student who enrolls at the college for the first time, excluding students who transferred from another institution of higher education. For purposes of this section, first time enrollment does not include concurrent enrollment during high school. To the extent that a college has the capacity to require and provide the services identified in (b)(1) through (4) to other students, nothing in this section would preclude a college from doing so.

(d) Nonexempt students who have completed the services identified in (b)(1) through (4) shall be required to complete a comprehensive education plan after completing 15 semester units or 22 quarter units of degree applicable credit course work or prior to the end of the 3rd semester or 4th quarter of enrollment, or a shorter period if required by district or program policy.

(e) Failure to fulfill the required services listed in (b) may result in a hold on a student's registration or loss of registration priority pursuant to section 58108 until the services have been completed.

(f) Information obtained from the matriculation process shall be considered student records and shall be subject to the requirements of subchapter 6 (commencing with section 54600) of chapter 5.

Note: Authority cited: Sections 66700 and 70901, Education Code. Reference: Sections 76000, 76001 and 78212, Education Code.

Section 55531. Institutional Responsibilities

(a) The governing board of each community college district shall adopt policies reflecting the provisions of section 55530, Student Rights and Responsibilities. Colleges shall take steps to ensure that information regarding its matriculation policies are accessible and available to all students during or prior to enrollment (e.g., during orientation) and are included in class schedules, catalogs, or other appropriate communications describing student rights and responsibilities under this subchapter.

(b) Once the student has identified a course of study and completed 15 semester units or 22 quarter units of degree applicable course work, the college must provide the student with an opportunity to develop a comprehensive student education plan pursuant to section 55524 within a reasonable time period. Student responsibilities shall also be identified in the student's education plan developed pursuant to section 55524.

(c) Colleges are required to provide nonexempt students with the services specified in sections 55520, 55521, 55522, 55523, and 55524. Initial implementation of these services is required for first time students identified in section 55530(b) by the fall 2015 term. Beginning with the spring 2015 term, districts shall notify students of the requirements established by this subchapter.

(d) Districts may establish a policy providing that a nonexempt student will have a hold placed on registration or lose registration priority pursuant to section 58108 if a student fails to fulfill the responsibilities set forth in section 55530(b) and (c).

(e) Districts and colleges shall make reasonable efforts to avoid duplication of the orientation, assessment, counseling, advising, or other education planning services, and development of student education plans funded through this subchapter or funded through other programs.

(f) It is the intent of this subchapter that instructional and student services departments at each college shall use multiple sources of data from student education planning efforts and identified courses of study to coordinate course scheduling.

Note: Authority cited: Sections 66700 and 70901, Education Code. Reference: Sections 76000, 76001 and 78212, Education Code.

§ 55532. Exemptions

(a) Community college districts may elect to exempt certain students from participation in orientation, assessment, counseling, advising, or student education plan development, as required by subdivisions (a), (b), (c), or (d) of section 55520. Each district shall establish policies specifying the grounds for exemption. Such policies shall be identified in the Student Success and Support Program plan required under section 55510 and the number of students so exempted shall be reported, by category, to the Chancellor pursuant to section 55511.

(b) Districts may adopt policies that exempt a student from orientation, assessment, counseling, advising, or student education plan development if the student:

(1) has completed an associate degree or higher;

(2) has enrolled at the college for a reason other than career development or advancement, transfer, attainment of a degree or certificate of achievement, or completion of a basic skills or English as a Second Language course sequence;

(3) has completed these services at another community college within a time period identified by the district;

(4) has enrolled at the college solely to take a course that is legally mandated for employment as defined in section 55000 or necessary in response to a significant change in industry or licensure standards.

(5) has enrolled at the college as a special admit student pursuant to Education Code section 76001.

(c) Any student exempt from orientation, assessment, counseling, advising, or student education plan development shall be notified and may be given the opportunity to participate in those services.

(d) District policies shall not exempt a student solely because a student has not selected an education and career goal or course of study.

Note: Authority cited: Sections 66700, 70901, and 78215, Education Code. Reference: Section 78215, Education Code.

Appendix B: Request for Approval or Renewal of a Locally Developed/Managed Test

California Community Colleges Chancellor's Office

Preparing for Approval of a Locally Constructed/Managed Test

As indicated on the Request for Approval Form below, a brief narrative must be submitted summarizing the evidence supporting the use of the test. Based on reviews of previous material submitted, the following information may help you create these summary statements:

1. This narrative should not be a lengthy report. However, enough details should be provided for the Chancellor's Office and the Assessment Advisory Committee to evaluate the quality of the supporting studies provided. Summaries for all five standards (validity, reliability, fairness/test bias, cut or placement scores, and disproportionate impact) should not exceed 20 pages for any one test.
2. According to the Standards for Evaluation of Assessment Instruments, a test will not be approved unless evidence provided supports at least one aspect of validity and fairness/test bias. Therefore, to obtain at least the minimum level of approval, a college must provide sufficient evidence in these two areas to support the use of the test.
3. It is the college's responsibility to provide an integrated argument for claims concerning a standard rather than just presenting facts and letting the reviewer draw his own conclusions.
4. For content validity evidence, the college should describe how a test was selected to match the prerequisite skills of the course(s) for which it places students. A well-documented content validity study linking test items or performance tasks and scoring rubrics to course prerequisite skills based on instructor ratings provides powerful validity data supporting use of the test.
5. For the other types of validity evidence required, colleges have the option to submit either criterion-related or consequential-related validity evidence. Criterion-related validity does not need to be restricted to the correlation coefficients (e.g., studies seeking a .35 correlation) between the proposed placement test and end-of-course grade. Other criteria and types of analyses may be used as the primary evidence when arguing for the validity of the instrument.
6. Logical fairness review procedures should be conducted at the individual item level rather than at an overall test level. A diverse panel reflecting the college's student population (with the emphasis on including panelists from the impacted groups) should be used. The summary of this component should include a description of the number and type of each impacted group included in the review.
7. A description of the process to address any unfair items identified should be included.
8. Data collected for item fairness and disproportionate impact studies should be provided for each impacted student group. For ESL placement tests, the groups would be based on linguistic differences.

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9. Data submitted as cut-score validity or disproportionate impact evidence may be different depending on whether the application is an initial request or a renewal. For example, consequential validity study or success ratio data are not needed to validate cut-scores for initial requests, although colleges must submit documentation indicating appropriate procedures were used to determine cut scores. Similarly, only a description of the plan to monitor disproportionate impact is required for initial requests. For renewal applications, evidence that the cut-scores have been re-examined or monitored is required as is direct evidence (i.e., data) on disproportionate impact.
10. Evidence must be presented for generalization of results across forms, courses, and colleges.
 - If two or more forms or prompts of a test are in use, evidence that the forms or prompts are parallel and equated must be provided or evidence in each of the areas indicated in the standards must be presented.
 - If multiple courses are involved, evidence must be presented for each course.
 - If the request is for approval at two or more colleges, evidence must support that the colleges are parallel (the same) in course content, delivery of instruction and student populations served. Otherwise, each college must submit evidence specific to their campus.



California Community Colleges Chancellor's Office Request for Approval or Renewal of a Locally Developed/Managed Test

The minimum requirements for approval are to provide at least one type of validity evidence and address the fairness standard. Please note that it is not necessary to submit extensive documentation to support your request. Please summarize any data from technical reports or other sources that indicate whether a specific standard has been met at a minimal level for your instrument.

When requested, indicate which areas have been investigated or addressed and those not yet addressed. Studies addressing all of areas indicated in the standards need not be completed in order to request approval of an instrument.

Note: The college must receive authorization from the publisher for use of any locally managed, second-party test.

College:

Address:

Contact Person:

Title:

Telephone Number:

Email:

1. Identify the test with its complete title and its MIS code (if renewal):

2. Which course(s) is this test used to assist with student placement?

3. Have there been investigations of the validity of the use of scores obtained from this test? If you cannot answer yes to one of the options below, do not submit this request until some validity evidence is available.

- YES, all required studies have been completed. A brief narrative is attached that summarizes the information from all such investigations.
- YES, but not all required studies have been completed. A brief narrative is attached that summarizes the procedures and findings from all such investigations.

Projected completion date for required studies not completed:

4. Have there been investigations of the reliability of scores obtained from this test?

- YES. A brief narrative is attached summarizing the procedures and findings from all such investigations.
- NO. Projected completion date:

5. Have there been investigations of test bias? (If your response is no to this question, do not submit this request until some test bias evidence is available. Note also that the required evidence may be different depending on whether this is an initial or renewal request for an instrument.)

- YES. A brief narrative is attached summarizing the procedures and findings from all such investigations.

6. Have there been investigations of the adequacy of the **cut or placement score(s)** used with this test?

- YES. A brief narrative is attached summarizing the procedures and findings from all such investigations.
- NO. Projected completion date:

7. Have there been investigations planned (for first-time submissions) or conducted (for renewal) of **disproportionate impact** in those courses that rely on this test to assist in placement decisions?

- YES. A brief narrative is attached summarizing the procedures and findings from all such investigations.
- NO. Projected completion date:

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Documented evidence maintained at the appropriate college or district office supports the suitability of this assessment instrument to provide fair and equitable student placement information, as described in the California Community College validation standards. At a minimum, evidence from at least one validity study (content, criterion-related or consequential) and a bias study supports the continued use of the instrument.

<input type="text"/>	<input type="text"/>	<input type="text"/>
College Assessment Officer	Signature	Date
<input type="text"/>	<input type="text"/>	<input type="text"/>
College Research Officer	Signature	Date
<input type="text"/>	<input type="text"/>	<input type="text"/>
College Subject Discipline Faculty/Chair	Signature	Date
<input type="text"/>	<input type="text"/>	<input type="text"/>
College Superintendent/President	Signature	Date

Appendix C: Flowchart for Determining Application Category and Tables of Criteria

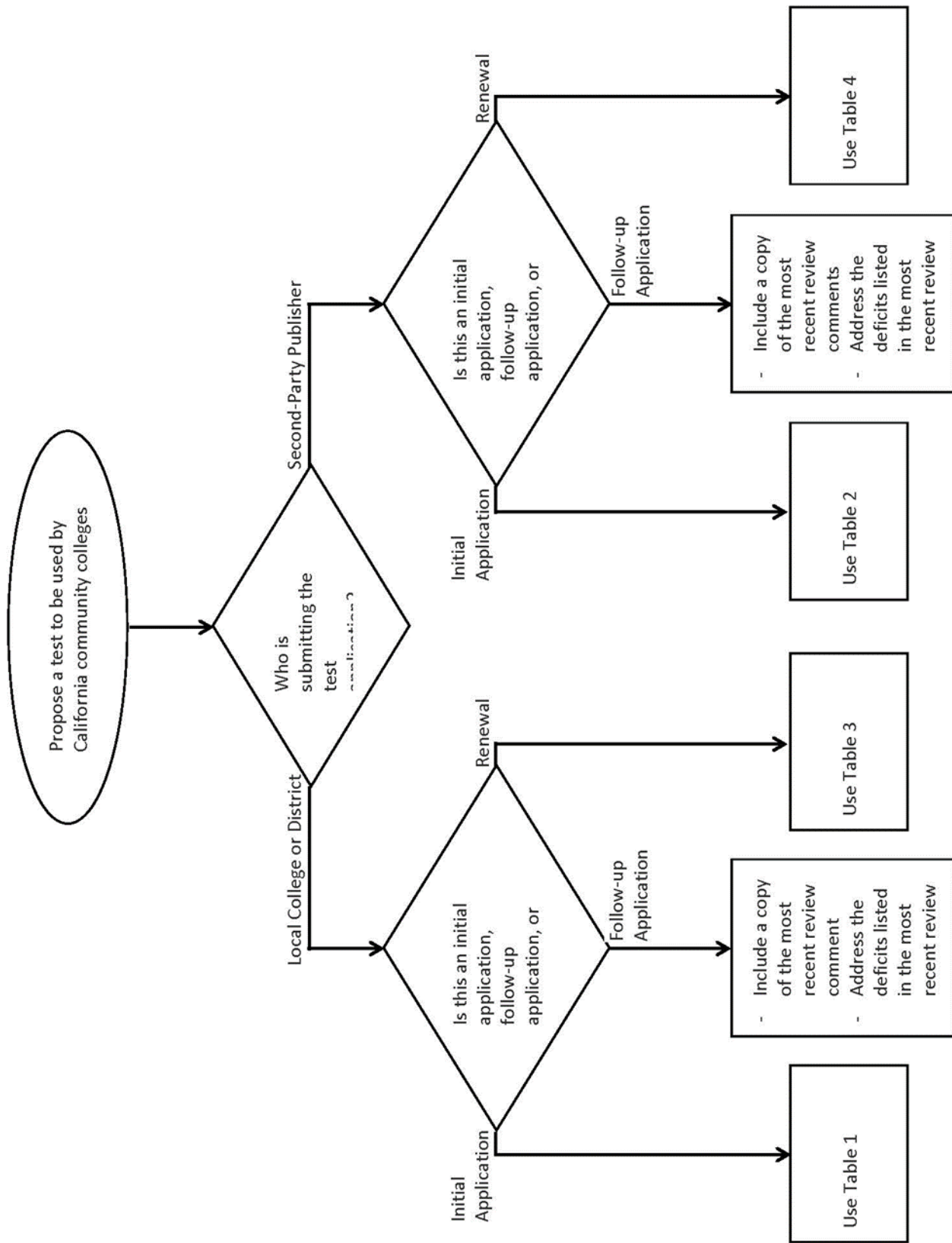


Table 1. Initial Application for Locally Developed/Managed Tests	
	Description and Requirements
Fairness/Test Bias	Logical review conducted at the local college or Citing logical review results conducted by other community college(s) with similar demographics or Citing logical review results conducted by the test publisher if appropriate See Section FOUR, Subsection I.1.a.
Content Validity	Item-by-item analysis comparing each test item to each course prerequisite See Section FOUR, Subsection I.2.a.
Consequential or Criterion Validity	Only need if providing local cut-score validation
Cut-Score Validation	Judgmental approach or Empirical approach (e.g., consequential/criterion validity study) See Section FOUR, Subsection I.2.c.
Reliability	At least one reliability estimate and the standard error of measurement associated with it and Direct performance assessments: Inter-scorer reliability See Section FOUR, Subsection I.3.
Disproportionate Impact	A plan describing how data on disproportionate impact will be monitored and evaluated locally See Section FOUR, Subsection I.1.b.
ADA Accommodations	Identify accommodations that are provided and Altered test forms need documentation and justification for all changes See Section FOUR, Subsection I.1.c.

Note. Additional information may be needed for computer-based testing. See [Section FOUR, Subsection IV.](#) for details.

Table 2. Initial Application for Second-Party Tests	
	Description and Requirements
Fairness/Test Bias	Logical review of bias, insensitivity, and offensiveness by a panel and Empirical review and justifications for item retention, revision, or removal See Section FOUR, Subsection II.1.a.
Content Validity	Test objective and table of specifications and Test booklets (or a representative sample of operational test items) and Contact information for requesting operational booklets for local colleges to conduct item-by-item content review See Section FOUR, Subsection II.2.a.
Consequential or Criterion Validity	Criterion or consequential validity study See Section FOUR, Subsection II.2.b.
Cut-Score Validation	Not required
Reliability	Reliability estimates for all relevant sources of measurement errors, including coefficient of stability and Standard errors of measurement and Direct performance assessments: Inter-scorer reliability See Section FOUR, Subsection II.3.
Disproportionate Impact	Not required
ADA Accommodations	Alternative test forms and/or appropriate accommodations for students with disabilities See Section FOUR, Subsection II.1.b.

Note. Additional information may be needed for computer-based testing. See [Section FOUR, Subsection IV.](#) for details.

Table 3. Renewal Application for Locally Developed/Managed Tests	
	Description and Requirements
Fairness Tests /Test Bias	Logical review conducted at the local college or Citing logical review results conducted by other community college(s) with similar demographics or Citing logical review results conducted by the test publisher if appropriate See Section FOUR, Subsection I.1.a.
Content Validity	Item-by-item analysis comparing each test item to each course prerequisite See Section FOUR, Subsection I.2.a.
Cut-Score Validation	Empirical approach (e.g., consequential validity study) See Section FOUR, Subsection I.2.c.
Reliability	Not required
Disproportionate Impact	Disproportionate impact analysis and A detailed action plan if disproportionate impact is found See Section FOUR, Subsection I.1.b.
ADA Accommodations	Identify accommodations that are provided and Altered test forms need documentation and justification for all changes See Section FOUR, Subsection I.1.c.

Note. Additional information may be needed for computer-based testing. See [Section FOUR, Subsection IV.](#) for details.

Note. All data and analyses used to support renewal must be recent (within the last three years).

Table 4. Renewal Application for Second-Party	
	Description and Requirements
Fairness/Test Bias	Logical review of bias, insensitivity, and offensiveness by a panel and Empirical review and justifications for item retention, revision, or removal See Section FOUR, Subsection II.1.a.
Content Validity	Contact information for requesting operational booklets for local colleges to conduct item-by-item content review See Section FOUR, Subsection II.2.a.
Consequential or Criterion Validity	Criterion or consequential validity study See Section FOUR, Subsection II.2.b.
Cut-Score Validation	Not required
Reliability	Not required
Disproportionate Impact	Not required
ADA Accommodations	Alternative test forms and/or appropriate accommodations for students with disabilities See Section FOUR, Subsection II.1.b.

Note. Additional information may be needed for computer-based testing. See [Section FOUR, Subsection IV.](#) for details.

Note. All data and analyses used to support renewal must be recent (within the last three years).

Appendix D: Assessment Advisory Committee Charter (September 2021)

STATE OF CALIFORNIA

California Community Colleges
Chancellor's Office



Assessment Advisory Committee Charter September 2021

The Assessment Advisory Committee conducts the review of assessment instruments submitted by colleges and test publishers for Chancellor's Office approval. The committee works with the Chancellor's Office and psychometric consultants for the Chancellor's Office, who conduct the psychometric review of assessment instruments and provide other technical expertise as required. The committee then advises the Chancellor's Office on assessments presented for approval and provides recommendations regarding those approvals.

Establishment and Authority

Per Education Code 78213, a community college district or college shall not use any assessment instrument related to Education Code 78213 without the authorization of the board of governors. The board of governors may adopt a list of authorized assessment instruments and shall establish an advisory committee to review and make recommendations concerning all assessment instruments used by districts and colleges related to Education Code 78213. See the full text of Education Code 78213 below.

Membership

Assessment Advisory Committee members are appointed by a representative set of stakeholder groups and associations across the CC system. Each member serves a one-year term and is eligible for a second year, as determined by their appointing group/association. The Assessment Advisory Committee members consists of the following voting members:

- Three representatives from the AB 705 ESL Implementation Work Group.
- Two representatives from the Educational Services and Support Division of the CCCC.
- Four representatives from the Academic Senate for California Community Colleges (one each for English, math, ESL, and non-credit).
- One representative from the California Association of Community College Registrars and Admissions Officers.
- Two representatives from the California Community Colleges Assessment Association.
- One representative from the California Community Colleges Classified Senate (involved in assessment).
- One representative from the Chief Instruction Officers.

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- One representative from the Chief Student Services Officers.
- Two representatives from the Research & Planning (RP) Group (with one preferably having experience with multiple measures).
- One representative from the Research and Data Division of the CCCCCO.
- One representative from the Student Equity and Achievement Program (SEAP) Advisory Committee (with background in assessment).
- Two representatives (and one alternate) from the Student Senate for California Community Colleges.
- One representative from the Workforce and Economic Development (WED) Division of the CCCCCO.

Resource Members

- One representative from the Office of General Counsel of the CCCCCO.

Leadership

The Assessment Advisory Committee is overseen by a Vice Chancellor of Educational Services and Support and is co-chaired with an Educational Services and Support Dean.

Purpose and Responsibility

The Assessment Advisory Committee's responsibilities are as follows:

- Review and evaluate assessment validation submissions as needed and provide recommended levels of approval to the Chancellor's Office based on guidance from the psychometric consultants.
- Review and provide feedback on technical assistance materials on assessment-related topics.
- Provide guidance on assessment issues in the CCC.
- Assist with planning assessment trainings, webinars, and workshops as needed.

Per Education Code 78213, as the committee reviews assessment instruments, reviews should be conducted to ensure the following requirements are fulfilled:

- (1) Assessment instruments shall be sensitive to cultural and language differences between students, and shall be adapted as necessary to accommodate students with disabilities.
- (2) Assessment instruments shall be used as an advisory tool to assist students in the selection of appropriate courses.
- (3) Assessment instruments shall not be used to exclude students from admission to community colleges.

For purposes of Education Code 78213 and therefore the work of this committee, "assessment" means the process of gathering information about a student regarding the student's study skills, English language proficiency, computational skills, aptitudes, goals, learning skills, career aspirations, academic performance, and need for special services. Assessment methods may include, but not necessarily be limited to, interviews, standardized tests, attitude surveys, vocational or career aptitude and interest inventories, high school or

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postsecondary transcripts, specialized certificates or licenses, educational histories, and other measures of performance.

As a Bagley-Keene committee, the Assessment Advisory Committee will typically meet in-person 2-4 times per year as needed (with exceptions made for virtual meetings pending emergencies). The Chancellor's Office will cover travel costs for in-person meetings according to state travel policy and rates.

Members are expected to review materials in advance of the meetings, actively engage in discussions during meetings, and to participate in work groups as needed.

Decision Making and Recommendations

To establish quorum for decision-making, 50% plus one of the voting members must be present. Vacancies do not count towards the determination of the quorum. The committee shall make every effort to reach consensus when determining recommendations. If consensus cannot be reached, then recommendations shall be made by vote of the voting membership.

Committee recommendations will be received by the presiding Vice Chancellor of Educational Services and Support and taken to the Chancellor for review. Final recommendations will be presented to the Board of Governors for approval.

GLOSSARY

Consequential-related validity evidence addressing desired or undesired outcomes that follow from the use of test scores to advise placement of students into courses.

Content-related validity evidence addressing the extent to which course pre-requisite knowledge and skills are being measured by the items on a test for all courses into which the test scores are being used to place students

Corrected validity coefficients psychometric procedures that estimate the relationship between two sets of scores if the test scores were measured with perfect reliability (corrected for attenuation) or full variability (corrected for restriction of range).

Correlation coefficient a statistical index that summarizes the magnitude of the relationship between two sets of scores for the same group of individuals. This index takes on values ranging from -1.00 to 1.00 with values around zero ($.00$) representing no relationship.

Criterion-related validity evidence addressing the extent to which scores on the placement test are related to scores on an appropriate criterion measure of student ability to meet different course requirements into which the students are being placed or an appropriate measure of student success in different courses.

Critical mass the accumulation of evidence across a diverse set of colleges, which can be used to gain approval for the use of a test instrument by all colleges in the system.

Differential prediction evidence addressing the extent to which scores on a placement test are equally predictive of an outcome measure for all subgroup classifications, e. g., gender, ethnicity, age, etc.

Direct performance assessments that require an open-ended response from the test taker to a task, set of tasks or set of defined stimulus conditions. Responses then are scored using a standardized scoring rubric that has defined scale values indicating the adequacy of performance at different levels of proficiency.

Empirical approach to setting cut-scores procedures to identify cut-score values based on differential test taker test performance under certain design conditions.

Evidence Based refers to any practice or strategy informed by objective evidence, e.g., research that conforms to explicit criteria.

Internal consistency a method of estimating test score reliability based on the consistency or relationship of responses to test items across test takers for a single administration of the test.

GLOSSARY

Examples of methods or indices include Kuder-Richardson formula 20 or 21, coefficient alpha and split-half procedures.

Interscorer reliability coefficient an index of reliability indicating the consistency of ratings assigned to test taker responses (usually from performance assessment data) by two or more raters.

Judgmental approach to setting cut-scores procedures to identify cut-score values based on expert panel review, evaluation and judgments about the appropriateness and difficulty of test and test item content, and expected performance for identified populations of test takers.

Norms reported score distributional characteristics for samples of test takers that are intended to represent a population of test takers with described characteristics such that the performance of the norm group can offer relative interpretation of a person's test score with reference to the performance of test takers in the norm group.

Reliability evidence addressing the degree of consistency of measurements when the procedures producing test scores are repeated on a population of individuals or groups.

Stability coefficient an estimate of the reliability of test scores using a procedure requiring that data be collected from the same group of individuals on two separate occasions with an intervening period of at least two weeks between administrations.

Standard error of measurement an index related to the reliability of test scores, which provides information addressing the degree of inaccuracy for specific test score values.

Test the Standards for Educational and Psychological Testing (2014) defines a test as "an evaluative device or procedure in which a sample of an examinee's behavior in a specified domain is obtained and subsequently evaluated and scored using a standardized process."

Transformed scale scores scores that are reported on a scale other than that produced by raw scores, e.g., percentile ranks or scores reported on a scale with a different mean and standard deviation than those of the raw scores.

Validity evidence addressing the extent to which the interpretation of scores from a test is meaningful, appropriate and useful to serve the purpose of placement of students into different courses.