

Multistate Standard-Setting Technical Report for the *Praxis*® Health Occupations (5052)

Student and Teacher Assessments: Validity and Test Use

ETS

Princeton, New Jersey

April 2022

Executive Summary

To support the decision-making process of education agencies establishing a passing score (cut score) for the *Praxis*® Health Occupations (5052) test, research staff from Educational Testing Service (ETS) designed and conducted a multistate standard-setting study (Tannenbaum, 2011, 2012).

Participating States

Panelists from three states, were recommended by their respective education agencies. The education agencies recommended panelists with (a) experience as either health occupations teachers or college faculty who prepare those health occupations teachers and (b) familiarity with the knowledge and skills required of beginning health occupations teachers.

Recommended Passing Score

ETS provides a recommended passing score from the multistate standard-setting study to help education agencies determine an appropriate operational passing score. For the *Praxis* Health Occupations test, the recommended passing score is 61 out of a possible 100 raw-score points. The scale score associated with a raw score of 61 is 152 on a 100–200 scale.

Introduction

To support the decision-making process for education agencies establishing a passing score (cut score) for the *Praxis*® Health Occupations (5052) test, research staff from ETS designed and conducted a multistate standard-setting study (Tannenbaum, 2011, 2012) in March 2022. Education agencies¹ recommended panelists with (a) experience as either health occupations teachers and (b) familiarity with the knowledge and skills required of beginning health occupations teachers. Three states (Table 1) were represented by six panelists. (See Appendix A for the names and affiliations of the panelists.)

Table 1
Participating States and the Number of Panelists

Indiana (3 panelists)

Tennessee (2 panelists)

Nevada (1 panelist)

The following technical report contains three sections. The first section describes the content and format of the test. The second section describes the standard-setting processes and methods. The third section presents the results of the standard-setting study.

ETS provides a recommended passing score from the multistate standard-setting study to education agencies. In each state, the department of education, the board of education, or a designated educator licensure board is responsible for establishing the operational passing score in accordance with applicable regulations. This study provides a recommended passing score, which represents the combined judgments of a group of experienced educators. Each state may want to consider the recommended passing score but also other sources of information when setting the final *Praxis* Health Occupations passing score (see Geisinger & McCormick, 2010). A state may accept the recommended passing score, adjust the score upward to reflect more stringent expectations, or adjust the score downward to reflect more lenient expectations. There is no *correct* decision; the appropriateness of any adjustment may only be evaluated in terms of its meeting the state's needs.

Two sources of information to consider when setting the passing score are the standard error of measurement (SEM) and the standard error of judgment (SEJ). The former addresses the reliability of

¹ States and jurisdictions that currently use *Praxis* tests were invited to participate in the multistate standard-setting study.

the *Praxis* Health Occupations test score and the latter, the reliability of panelists' passing-score recommendation. The SEM allows states to recognize that any test score on any standardized test—including a *Praxis* Health Occupations test score—is not perfectly reliable. A test score only *approximates* what a candidate truly knows or truly can do on the test. The SEM, therefore, addresses the question: How close of an approximation is the test score to the *true* score? The SEJ allows states to gauge the likelihood that the recommended passing score from the current panel would be similar to the passing scores recommended by other panels of experts similar in composition and experience. The smaller the SEJ, the more likely that another panel would recommend a passing score consistent with the recommended passing score. The larger the SEJ, the less likely the recommended passing score would be reproduced by another panel.

In addition to measurement error metrics (e.g., SEM, SEJ), each state should consider the likelihood of classification errors. That is, when adjusting a passing score, policymakers should consider whether it is more important to minimize a false-positive decision or to minimize a false-negative decision. A false-positive decision occurs when a candidate's test score suggests that they should receive a license/certificate, but their actual level of knowledge/skills indicates otherwise (i.e., the candidate does not possess the required knowledge/skills). A false-negative decision occurs when a candidate's test score suggests that they should not receive a license/certificate, but they actually do possess the required knowledge/skills. States needs to consider which decision error is more important to minimize.

Overview of the Praxis® Health Occupations Test

The *Praxis*® Health Occupations *Study Companion* document (ETS, in press) describes the purpose and structure of the test. In brief, the test measures whether entry-level health occupations teachers have the knowledge/skills believed necessary for competent professional practice.

The 2-hour assessment contains 120 selected-response items² covering four content areas: *The Sciences and Languages of Health* (approximately 42 items), *Community and Individual* (approximately 30 items), *Professional Practices* (approximately 24 items), and *Pedagogical Practices* (approximately 24 items).³ The reporting scale for the *Praxis* Health Occupations test ranges from 100 to 200 scale-score points.

² Twenty of the 120 selected-response items are pretest items and do not contribute to a candidate's score.

³ The number of items for each content area may vary slightly from form to form of the test.

Processes and Methods

The design of the standard-setting study included an expert panel. Before the study, panelists received an email explaining the purpose of the standard-setting study and requesting that they review the content specifications for the test. This review helped familiarize the panelists with the general structure and content of the test.

The standard-setting study began with a welcome and introduction by the meeting facilitator. The facilitator described the test, provided an overview of standard setting, and presented the agenda for the study. Appendix B shows the standard-setting study agenda.

Reviewing the Test

The standard-setting panelists first took the test and then discussed the content measured. This discussion helped bring the panelists to a shared understanding of what the test does and does not cover, which serves to reduce potential judgment errors later in the standard-setting process.

The test discussion covered the major content areas being addressed by the test. Panelists were asked to remark on any content areas that would be particularly challenging for entry-level health occupations teachers or areas that address content particularly important for entry-level health occupations teachers.

Defining the Just-Qualified Candidate

Following the review of the test, panelists described the just-qualified candidate. The *just-qualified candidate description* plays a central role in standard setting (Perie, 2008); the goal of the standard-setting process is to identify the test score that aligns with this description.

The panel created a description of the just-qualified candidate—the knowledge/skills that differentiate a *just-qualified* from a *not quite-qualified* candidate. To create this description, the panel first split into smaller groups to consider the just-qualified candidate. Then they reconvened and, through whole-group discussion, determined the description of the just-qualified candidate to use for the remainder of the study.

The written description of the just-qualified candidate summarized the panel discussion in a list format. The description was not intended to describe all the knowledge and skills of the just-qualified candidate but only highlight those that differentiate a *just-qualified candidate* from a *not-quite-qualified*

candidate. The written description was distributed to panelists to use during later phases of the study (see Appendix C for the just-qualified candidate description).

Panelists' Judgments

The standard-setting process for the *Praxis* Health Occupations test was a probability-based Modified Angoff method (Brandon, 2004; Hambleton & Pitoniak, 2006). Using this method, each panelist judged each item on the likelihood (probability or chance) that the just-qualified candidate would answer the item correctly. Panelists made their judgments using the following rating scale: 0, .05, .10, .20, .30, .40, .50, .60, .70, .80, .90, .95, 1. The lower the value, the less likely it is that the just-qualified candidate would answer the item correctly because the item is difficult for the just-qualified candidate. The higher the value, the more likely it is that the just-qualified candidate would answer the item correctly.

Panelists were asked to approach the judgment process in two stages. First, they reviewed both the description of the just-qualified candidate and the item and determined the probability that the just-qualified candidate would answer the question correctly. The facilitator encouraged the panelists to consider the following rules of thumb to guide their decision:

- Items in the 0 to .30 range were those the just-qualified candidate would have a *low chance* of answering correctly.
- Items in the .40 to .60 range were those the just-qualified candidate would have a *moderate* chance of answering correctly.
- Items in the .70 to 1 range were those that the just-qualified candidate would have a *high* chance of answering correctly.

Next, panelists decided how to refine their judgment within the range. For example, if a panelist thought that there was a *high chance* that the just-qualified candidate would answer the question correctly, the initial decision would be in the .70 to 1 range. The second decision for the panelist was to judge if the likelihood of answering it correctly is .70, .80, .90, .95 or 1.

After the training, panelists made practice judgments and discussed those judgments and their rationales. All panelists completed a post-training evaluation to confirm that they had received adequate training in the Modified Angoff method and felt prepared to continue; the standard-setting process continued only if all panelists confirmed their readiness.

Following this first round of judgments (*Round 1*), item-level feedback was provided to the panel. The panelists' judgments were displayed for each item and summarized across panelists. Item-level data were highlighted to show when panelists converged in their judgments or diverged in their judgments. For the dichotomously-score items, this meant that at least two-thirds of the panelists' judgments were in the same difficulty range. For the constructed-response items, this meant that at least two-thirds of the panelists' judgments indicated the same score most likely earned by a just-qualified candidate.

The panelists discussed their item-level judgments. These discussions helped panelists maintain a shared understanding of the knowledge/skills of the just-qualified candidate and helped to clarify aspects of items that might not have been clear to all panelists during the Round 1 judgments. The purpose of the discussion was not to encourage panelists to conform to another's judgment, but to understand the different relevant perspectives among the panelists.

In Round 2, panelists discussed their Round 1 judgments and were encouraged by the facilitator (a) to share the rationales for their judgments and (b) to consider their judgments in light of the rationales provided by the other panelists. Panelists recorded their Round 2 judgments only for items when they wished to change a Round 1 judgment. Panelists' final judgments for the study, therefore, consist of their Round 1 judgments and any adjusted judgments made during Round 2.

Results

Expert Panels

Table 2 presents a summary of the panelists' demographic information. The panel included six educators representing three states. (See Appendix A for a listing of panelists.) Three panelists were teachers, one owned and operated a health science education facility, one was a state's health and physical education specialist, and one was an educator preparation provider specialist.

Table 2
Panel Member Demographics

Background Survey Question	Number	Percent
What is your current position?	<u>N</u>	<u>%</u>
Teacher	<u>N</u> 3	50
Health Science Education Facility Owner, Administrator, and Educator	1	17
State's Health and Physical Education Specialist	1	17
Educator Preparation Provider Specialist	1	17
How do you describe yourself (i.e., race/ethnicity)?	<u>N</u>	<u>%</u>
Black or African American	<u>N</u> 2	33
White	3	50
Prefer not to respond	1	17
What is your gender?	<u>N</u>	<u>%</u>
Female	5	83
Male	1	17
Are you currently certified to teach health occupations in your state?	<u>N</u>	<u>%</u>
Yes	5	83
No	1	17
Are you currently teaching health occupations in your state?	<u>N</u>	<u>%</u>
Yes	4	67
No	2	33
Are you currently supervising or mentoring other health occupations		
teachers?	<u>N</u> 3	<u>%</u>
Yes	3	50
No	3	50
At what P-12 grade level are you currently teaching health occupation?	<u>N</u>	<u>%</u>
High school (9–12 or 10–12)	4	67
Other	1	17
Not currently teaching at the P-12 level	1	17
Including this year, how many years of experience do you have teaching		
health occupations?	<u>N</u> 2	<u>%</u>
3 years or less		33
4–7 years	2	33
8–11 years	1	17
12–15 years	1	17
16 years or more	0	0

(table continues on the next page)

Table 2 (continued from the previous page)
Panel Member Demographics

Which best describes the location of your P-12 school?	<u>N</u>	<u>%</u>
Urban	3	50
Suburban	1	17
Rural	0	0
I am not working in a school (e.g., district-level)	2	33
I am not currently working at the P-12 level	0	0
If you are college faculty, are you currently involved in the training/		
preparation of health occupation teachers?	<u>N</u>	<u>%</u>
Yes	0	0
No	0	0
Not college faculty	6	100

Standard-Setting Judgments

Table 3 summarizes the standard-setting judgments of each panelist and shows the passing score recommendations of each panelist at each round—the number of raw points needed to "pass" the test. The recommendations are the raw score points needed out of a maximum of 100.

Table 3
Raw Score Recommendation of Each Panelist by Round of Judgments

Panelist	Round 1	Round 2
1	60.95	63.85
2	65.90	64.10
3	51.90	52.90
4	59.10	59.00
5	65.70	65.50
6	58.30	59.50

Table 4 shows the summary statistics at each round of judgment. The mean represents the panel's passing score recommendation at each round. Table 4 also includes the standard deviation and the standard error of judgment (SEJ). The SEJ is one way of estimating the reliability or consistency of a panel's standard-setting judgments. It indicates how likely it would be for several other panels of educators similar in makeup, experience, and standard-setting training to the current panel to recommend the same passing score on the same form of the test. (Appendix D provides the technical notes, which further describe the SEJ.)

Table 4
Summary Statistics by Round of Judgments

Round 1	Round 2
60.31	60.81
51.90	52.90
65.90	65.50
5.23	4.68
2.14	1.91
	60.31 51.90 65.90 5.23

Round 1 judgments are made without discussion among the panelists. The most variability in judgments, therefore, is typically present in the first round. Round 2 judgments, however, are informed by panel discussion; thus, it is common to see a decrease both in the standard deviation and SEJ. This decrease—indicating convergence among the panelists' judgments—was observed (see Table 4).

The Round 2 mean score is the panel's final recommended passing score. The panel's passing score recommendation for the *Praxis* Health Occupations test is 60.81 (out of a possible 100 raw-score points). The value was rounded to the next highest whole number, 61, to determine the functional recommended passing score. The scale score associated with 61 raw points is 152.

The conditional standard error of measurement (CSEM) around the recommended passing score is 4.90 raw points. A standard error represents the uncertainty associated with a test score (See Appendix D for further information about the CSEM.) Table 5 shows the raw scores and the scale scores associated with one and two CSEM below and above the recommended passing score.

Table 5
Scores 1 and 2 CSEM Around the Recommended Passing Score (RPS)

Scores	Raw Score Points out of 100	Praxis Scale Score Equivalent
RPS - 2 CSEM	52	139
RPS - 1 CSEM	57	146
RPS	61	152
RPS +1 CSEM	66	159
RPS +2 CSEM	71	166

Notes. CSEM = conditional standard error(s) of measurement. The CSEM of the recommended passing score is 4.90 raw points. The unrounded CSEM value is added to, or subtracted from, the rounded passing-score recommendation. The resulting values are rounded up to the next-highest whole number and then converted to scale scores.

Final Evaluations

The panelists completed an evaluation at the conclusion of the standard-setting study. The evaluation asked the panelists to provide feedback about the quality of the standard-setting implementation and the factors that influenced their decisions. The responses to the evaluation

provided evidence of the validity of the standard-setting process, and, as a result, evidence of the reasonableness of the recommended passing score.

Panelists were shown the panel's recommended passing score after Round 2 and asked, in the evaluation, (a) how comfortable they are with the recommended passing score and (b) if they think the score was *too high*, *too low*, or *about right*. A summary of the final evaluation results is presented in Appendix E.

All panelists *strongly agreed* or *agreed* that they understood the purpose of the study and that the facilitator's instructions and explanations were clear. All panelists *strongly agreed* or *agreed* that they were prepared to make their standard-setting judgments. All panelists *strongly agreed* or *agreed* that the standard-setting process was easy to follow.

All panelists reported that the description of the just-qualified candidate was *very influential* or *somewhat influential* in guiding their standard-setting judgments. All of the panelists reported that round 2 discussions were at least *somewhat influential* in guiding their judgments. Five of the six panelists indicated that their own professional experience was *very influential* in guiding their judgments.

Five of the six panelists indicated they were *very comfortable* with the passing score they recommended; the remaining panelist was *somewhat comfortable* with the recommended passing score. Five of the six panelists indicated the recommended passing score was *about right*; one panelist felt that the passing score was *too low*.

Summary

To support the decision-making process for education agencies establishing a passing score (cut score) for the *Praxis* Health Occupations test, research staff from ETS designed and conducted a multistate standard-setting study.

ETS provides a recommended passing score from the multistate standard-setting study to help education agencies determine an appropriate operational passing score. For the *Praxis* Health Occupations test, the recommended passing score is 61 out of a possible 100 raw-score points. The scale score associated with a raw score of 61 is 152 on a 100–200 scale.

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Appendix A: Panelists' Names & Affiliations

Participating Panelists With Affiliation and State

Panelist Name	Panelists' Affiliation and State Abbreviation
LaTonya Jones	Blackman High School (TN)
Brandi London	Hardon Educational Institute (IN)
Rebecca Murphy	Rutherford County Schools (TN)
Andrew Snyder	Nevada Department of Education (NV)
Loreena Storer	Elkhart Area Career Center (IN)
Michele Zachary	Elkhart Area Career Center (IN)

Appendix B: Agenda

Praxis Health Occupations (5052) Standard-Setting Study

Day 1 Agenda

Welcome and Introduction

Overview of Standard Setting and the *Praxis* Health Occupations Test

Review the *Praxis* Health Occupations Test

AM Break

Discuss the *Praxis* Health Occupations Test

Lunch

Define the Knowledge/Skills of a Just-Qualified Candidate (small-group drafts)

PM Break

Define the Knowledge/Skills of a Just-Qualified Candidate (whole-group consensus)

Collect Materials; End of Day 1

Praxis Health Occupations (5052) Standard-Setting Study

Day 2 Agenda

Overview of Day 2

Standard Setting Training in the Modified Angoff Method

Practice Round in the Modified Angoff Method

AM Break

Practice Round Discussion and Training Evaluation

Round 1 Standard Setting Judgments

Lunch

Round 1 Feedback and Round 2 Judgments

AM Break

Round 1 Feedback and Round 2 Judgments (continued)

Feedback on Round 2 Recommended Passing Score

Complete Final Evaluation

Collect Materials; End of Study

Appendix C: Just-Qualified Candidate Description

Description of the Just-Qualified Candidate^{4,5}

A just-qualified candidate...

- 1. Knows the holistic relationship between anatomy and physiology, and the dimensions of wellness/health (physical, cognitive, social, and emotional growth and development) [IA, IIB]
- 2. Is familiar with the etiology/causes of common diseases [IB]
- 3. Knows the differentiation of common disease types and their general effects on each body system [IB]
- 4. Knows common medical terminology, technology, and assistive devices. [Ic]
- 5. Is familiar with different types of career opportunities, education pathways, and skills. [ID]

Community and Individual Health

- 6. Knows valid sources of health information, products, and services as it relates to consumer health issues (health literacy) [IIA, IIB]
- 7. Knows the need for health education advocacy and is familiar with how to identify the opportunities for implementation [IIA, IIB]
- 8. Understands positive and negative behaviors that can affect health or safety and ways to reduce and prevent health risks through nutrition, exercise, stress management, sleeping habits, and coping skills [IIB]

Professional Practices

- 9. Knows the major organizations (e.g., AMA, CDC, NIH) that support and regulate community health initiatives [IIA, IIIA]
- 10. Knows prevention practices and is familiar with the treatment and management of communicable and non-communicable diseases (e.g., infectious, congenital, hereditary, and lifestyle) [IIIB, IB]
- 11. Understands how to access information from valid and reliable databases regarding legal and ethical practices, and professional organizations. [IIIc]

⁴ Description of the just-qualified candidate focuses on the knowledge/skills that differentiate a *just* from a *not quite* qualified candidate.

⁵ Numbers in [brackets] indicate the associated category within the content specifications.

Description of the Just-Qualified Candidate (continued)

A just-qualified candidate...

Pedagogical Practices

- 12A Understands the importance of collaboration and integration of knowledge and skills from multiple community organizations (e.g., PLC groups, business, and industry partners) in order to enhance instruction [IVA, IVB]
- 12B Is familiar with how to collaborate and integrate knowledge and skills from multiple community organizations to enhance instruction [IVB, IVc]
- 13. Knows appropriate instructional strategies (e.g., cues, feedback, demonstrations) based on student needs, equipment, facilities, and safety concerns [IVc]
- 14. Knows how to access available resources to develop and grow as a reflective professional to enhance teacher performance, student learning, instructional goals, and decisions [IVB, IVc]

Appendix D: Technical Notes

Standard Error of Judgment (SEJ)

The standard error of judgment (SEJ) is one way of estimating the reliability or consistency of a panel's standard-setting judgments. It indicates how likely it would be for several other panels of educators similar in makeup, experience, and standard-setting training to the current panel to recommend the same threshold score on the same form of the assessment. The SEJ assumes that panelists are randomly selected and that standard-setting judgments are independent. It is seldom the case that panelists are randomly sampled, and only the first round of judgments may be considered independent. The SEJ, therefore, likely underestimates the uncertainty of threshold scores (Tannenbaum & Katz, 2013).

The SEJ is calculated by dividing the standard deviation of the panelists' judgments (*SD*) by the square root of the number of panelists (*n*). The result serves as an estimate of the standard error of the mean (Brennan, 2002).

$$SEJ = SD/\sqrt{n}$$

Conditional Standard Error of Measurement (CSEM)

The conditional standard error of measurement (CSEM) for a test is computed from the study value (SV) of the recommended passing score and the number of selected-response items (n) on the test (see Lord, 1984):

$$CSEM = \sqrt{(SV)(n - SV)/(n - 1)}$$

Appendix E: Final Evaluation Results

Table E1: Final Evaluation: Process Questions

Likert Statement	Strongly agree <i>N</i>	Strongly agree %	Agree <i>N</i>	Agree %	Disagree <i>N</i>	Disagree %	Strongly disagree N	Strongly disagree %
I understood the purpose of this study.	5	83	1	17	0	0	0	0
The instructions and explanations provided by the facilitators were clear.	4	67	2	33	0	0	0	0
The training in the standard-setting method was adequate to give me the information I needed to complete my assignment.	5	83	1	17	0	0	0	0
The explanation of how the recommended passing score is computed was clear.	5	83	1	17	0	0	0	0
The opportunity for feedback and discussion for round 2 judgments was helpful.	4	67	2	33	0	0	0	0
The process of making the standard- setting judgments was easy to follow.	4	67	2	33	0	0	0	0

Table E2: Final Evaluation: Standard-Setting Process

	Too much time <i>N</i>	Too much time %	About the right amount of time	About the right amount of time %	Too little time <i>N</i>	Too little time %
Small group JQC drafts	0	0	5	83	1	17
Whole group JQC consensus	1	17	4	67	1	17
Training and practice for making standard- setting judgments	0	0	6	100	0	0
Round 1 judgments (independent)	2	33	4	67	0	0
Round 2 judgments (with discussion)	2	33	3	50	1	17

Table E3: Final Evaluation: Influences in Standard-Setting Judgments

How influential was each of the following factors in guiding your standard-setting judgments?	Very influential <i>N</i>	Very influential %	Somewhat influential N	Somewhat influential %	Not influential <i>N</i>	Not influential %
The description of the just-qualified candidate	5	83	1	17	0	0
The between-round discussions	3	50	3	50	0	0
The knowledge/skills required to answer each test item	5	83	1	17	0	0
The passing scores of other panel members	1	17	5	83	0	0
My own professional experience	5	83	1	17	0	0

Table E4: Final Evaluation: Comfort with the Panel's Recommendation

Question	Very	Very	Somewhat	Somewhat	Somewhat	Somewhat	Very	Very
	comfort-	comfort-	comfort-	comfort-	uncom-	uncom-	uncom-	uncom-
	able	able	able	able	fortable	fortable	fortable	fortable
	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
Overall, how comfortable are you with the panel's recommended passing score?	5	83	1	17	0	0	0	0

Table E5: Final Evaluation Opinion of the Final Recommendation

Statement	Too low	Too low	About right	About right	Too high	Too high
	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
Overall, the recommended passing score is:	1	17	5	83	0	0