Disclosures

- Lisa Lucks Mendel, Janet Koehnke, Allan Diefendorf, and Glenn Waguespack serve on the National Advisory Committee for the Educational Testing Service (ETS) and have a financial relationship that pays them a consulting fee regarding the exam process. They have no nonfinancial relationships to disclose.

- Kathy Pruner and Ian Lichtenstein are employees of ETS and have a financial relationship with ETS as their primary employer. They have no nonfinancial relationships to disclose.
The Audiology Praxis Exam

• Purpose:
  • To evaluate the clinical knowledge of an audiologist entering the profession with a doctoral degree

• Required for:
  • Professional licensure
  • ASHA Certificate of Clinical Competence

• Aggregate student pass rates are submitted as part of an accredited program’s annual report to the Council for Academic Accreditation in Audiology and Speech-Language Pathology (CAA)

• Development of the exam is commissioned by ASHA and facilitated by ETS

• Exams are owned and administered by ETS as part of The Praxis II ®: Subject Assessments
Who Develops the Praxis Exam?

- National Advisory Committee (NAC)
  - Comprised of 10-12 audiologists including academic faculty, clinical educators, and practitioners
  - Comprised of ASHA members who volunteer or are invited
- Item Writing committee (IWC)
  - ASHA members who volunteer or are invited

*Both committees include experts in all areas covered on the exam*
Audiology NAC

- Meets at least annually at ETS to review &/or revise exams
- Maintains oversight of the exam content
- Defines topics for exam items
- Ensures current exam specifications are met
- Reviews and edits new and existing test questions and test forms
- Occasionally contributes exam questions
- Reviews and updates exam preparation materials
- Provides feedback on current scope of practice and changing demands of clinicians
Audiology Item Writing Committee

• 20 – 24 individuals

• Primarily responsible for writing items based upon each member’s area of expertise

• Committee members write questions and serve as Specialty Expert Reviewers who provide a third opinion review, if needed
How is the Audiology Praxis Exam Developed?

- Practice Analysis
- Test Blueprint
- Item Writing
- Equating Set
- Validity
- Standard Setting
- Passing Score Determined
Test Development in a Nutshell…

1. **Practice analysis** is conducted by ASHA (CAA & CFCC)
   - Certification standards evaluated by CFCC

2. **Test blueprint** developed based on practice analysis

3. **Exam developed**
   - Questions submitted by item writers
   - Relevant questions carried over from prior exams

4. **Equating Set created**
   - Ensures comparability of content between forms
   - Specifies a targeted difficulty for test forms and equates forms to ensure comparability of scores
Test Development Continued…

4. **Validity** is ensured by alignment of the test blueprint with the results of the Practice Analysis

6. **Standard Setting** report is prepared by ETS

7. **Passing Score Determined**
   - CFCC sets the passing score in consultation with ETS
How is the Audiology Praxis Exam Developed?

Test Development Process

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined
Audiology Practice Analysis

To Delineate The Tasks, Knowledge, and Skills Underlying The Practice of Audiology

(The terms “practice analysis” and “job analysis” are used interchangeably)

• Practice Analysis History
  • 1987: Evaluate the requirements of the CCC-A
  • 1994: Modify and update the Audiology Performance Domain
  • 2007: Inform the CAA and CFCC on Academic and Clinical Standards
Audiology Practice Analysis 2007

- Systematic procedures designed to obtain descriptive information about the tasks performed on a job and/or the knowledge, skills, and abilities thought necessary to perform those tasks

- Based on knowledge and/or skills associated with a four-year doctoral entry level degree

- Presents the implications of the findings for use in accreditation, certification, curriculum redesign, and test development
Audiology Practice Analysis

To Delineate The Tasks, Knowledge, and Skills Underlying The Practice of Audiology

• Practice Analysis Protocol
  • Performance domain constructed:

  • Clinical Activities: what newly-graduated entry-level doctoral audiologists should be able to perform independently

  • Foundational Knowledge: what newly-graduated entry-level doctoral audiologists should know
Audiology Practice Analysis

To Delineate The Tasks, Knowledge, and Skills Underlying The Practice of Audiology

Practice Analysis Protocol

• Survey to 8,498 audiologists
  • 1000 responses received
• Survey to 70 academic program directors
  • Rate the importance of the Clinical Activity and Foundational Knowledge areas;
  • Identify where the Clinical Activities and Foundational knowledge areas should be learned by newly graduated, entry-level doctoral audiologists to ensure safe and effective independent professional practice.
(What newly-graduated entry-level doctoral audiologists should be able to perform independently)

• 106 Clinical Activity Statements
  • 69/106 (65%) judged to be important by total group

• Activity statements dispersed across 6 areas
  • General Activities
  • Hearing Loss Prevention (Conservation)
  • Evaluation
  • Intervention
  • Documentation and Communication
  • Related Professional Activities
Audiology Practice Analysis
2007

Foundational Knowledge

• Foundational Knowledge Area: 24 knowledge statements
  • 20/24 (83%) were rated high by total group

• This area was added to the Clinical Activity statements, thus totaling 7 areas

• The PRAXIS Blueprint evolved from the 7 Practice Analysis areas
How is the Audiology Praxis Exam Developed?

Test Development Process

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined
The PRAXIS Blueprint (5 areas) evolved from the 7 Practice Analysis areas as follows:

- Foundations: 10% (12 Questions)
- Prevention/Identification: 10% (12 Questions)
- Assessment: 40% (48 Questions)
- Intervention: 30% (36 Questions)
- Professional Issues: 10% (12 Questions)
Test Blueprint

*The Test Blueprint serves multiple roles*

- It provides the basis for *communication* about what the test covers with both:
  - Contributors to test creation
    - (e.g. item writers)
  - Test-takers
Communicating with Contributors

- The test blueprint is the basis for materials used by item writers and form reviewers.

- The NAC ensures that the blueprint is the basis for the exam.

Every item is classified for content.
Communicating with Test-Takers

The test blueprint is the basis for materials allowing test-takers to familiarize themselves with the content.

Test blueprint

Test familiarization information
How is the Audiology Praxis Exam Developed?

Test Development Process

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined
Item Writing/Exam Development

- Items written in accordance with exam blueprint
- Item Review by NAC
  - Content of questions reviewed and items edited as needed
  - Statistical analysis of items from previous tests
- Summative Review
  - Final review of complete test for content changes in items selected for test form
- Layout Quality Control Review
  - Final review following ETS publishing processes
- Preliminary Item Analysis
  - Conducted one week after first administration of test
  - Scoring decisions on items flagged by statistician

*Exam development is an ongoing process!*
How is the Audiology Praxis Exam Developed?

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined

Test Development Process
Equating Set: Comparability

*It ensures* **comparability** *of test forms with regard to CONTENT*

**Comparability of content**
All content in a test form is classified for content
The blueprint ensures comparability of content between forms
Equating Set: Comparability

It ensures **comparability** of test forms with regard to **DIFFICULTY**

Comparability of Difficulty
The blueprint specifies a targeted difficulty for test forms
Equating of forms ensures comparability of scores
How is the Audiology Praxis Exam Developed?

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined

Test Development Process
Validity

The Test Blueprint serves multiple roles

- The blueprint is the key link in the **Validity Chain**
  - Validity is ensured by alignment of the **Test Blueprint** with the results of the Practice Analysis
  - Each clinical activity and/or knowledge area specified by the blueprint is analyzed
Validity

Validity is ensured by alignment of the test blueprint with the results of the Practice Analysis. To be included in a test for licensure, the content must be important for beginning practice in the field.

- Practice Analysis
- Test Blueprint
How is the Audiology Praxis Exam Developed?

Test Development Process

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined
Standard Setting Study

• A panel of individuals takes the test to establish familiarity with content
• The same panel defines Knowledge and Skills
  • They define the knowledge &/or skills expected of a candidate who should just barely pass the test
  • Just Qualified Candidate (JQC)
    • i.e., a new audiology doctoral graduate
    • This is the frame of reference used to guide standard setting judgments
• What is the likelihood that a JQC would answer the question correctly?
Standard Setting Study

- Two rounds of judgments, with feedback/discussion
  - Multiple-choice tests
  - Judge likelihood that JQCs would know the correct answer (Probability-based Angoff method* is used)
- Panel reviews categories of the test for validity
- A report is produced with a
  - Recommended Score Value and
  - Validity Information

* Brandon, 2004; Hambleton & Pitoniak, 2006
Standard Setting for New Exam

- Conducted August 6 and 7, 2011 to collect content-related validity evidence; to
  - Confirm the importance of test specifications
  - Gather data aimed at the determination of a passing score to reflect level of knowledge and/or skills needed for licensure or CCC-A

- Based on the Audiology Practice Analysis conducted by ASHA in 2007

- Based on knowledge and/or skills associated with a four-year degree, doctoral entry level
How is the Audiology Praxis Exam Developed?

Test Development Process

1. Practice Analysis
2. Test Blueprint
3. Item Writing
4. Equating Set
5. Validity
6. Standard Setting
7. Passing Score Determined
Passing Score Determined

• ASHA CFCC charged with evaluating ETS data to recommend a new passing score for audiology certification purposes
• Standard Setting Technical Report made available to CFCC
• Expert panel of audiologists recommended passing score for Praxis Audiology test at 87 (on raw score matrix): represents 73% of total available 120 raw score points
• Scaled score associated with a raw score of 87 would be 170
New Scaled Score

• Because the exam has been re-scaled, a passing score of 600 on the old exam is now equivalent to a score of 170 on the new exam
  • All scores to be reported on a 100-200 scale (revised scale in keeping with ETS plan to change GRE and other ETS tests to a new scaling system)
    • 170 equivalent to 600
    • 200 equivalent to 990
    • 167 equivalent to 580
Chronology of Events

• New test form administered in November 2011
• New Audiology test coded as number 0342
  • 120 question test
  • Scores reported on a 100-200 scale
• Applicants for ASHA certification in Audiology must show passing score of 170 (73%)
• Programs and licensure boards not prepared for new reporting system; ETS agrees to continue reporting 600 as passing score until January 2013
• Advance copy of TAAG (Test at a Glance) sent to all programs; TAAG outlines new test specifications for content areas to be included
Role of the National Advisory Committee (NAC)

1. Practice Analysis
2. Test Blueprint
3. Test Creation
4. Test Administration
5. Analysis & Evaluation
6. Scoring
Test Creation

IWC → Item Written

IWC → Content Review

NAC → Committee Review

Fairness Review
Edit Review
Formatting

NAC – National Advisory Committee
IWC – Item Writing Committee
Test Creation

1. Parent form identified (The parent form is the form that will be used for to equate the new form)
2. Equating set selected (An equating set is a representative subset of the parent form)
3. Equating set review
4. New form assembly
5. Form review

Test Blueprint guides this work
Analysis and Evaluation

Preliminary Item Analysis (PIA)

PIA review
Review of “flagged” items

Candidate inquiries received

Review of candidate inquiries

Problem item identification
(Problem items identified to be removed from scoring)
Types of Item Reviews (Post Administration)

• Preliminary Item Analysis

• Candidate Inquiry (e.g., e-mail, Student Inquiry Response (SIR), letter)
Preliminary Item Analysis

• Done after the items have been administered in an operational test form, but **before scores are computed**

• Purpose: to find problems before they affect the scores

• When item statistics from the test administration show that an item may not be functioning as intended, the item is flagged for review of content
  
  For example, an item will be flagged if an answer choice other than the key is selected by a high proportion of candidates

If review of flagged items by experts identifies problems with content, the item can be excluded from scoring
Item Analysis Graphs

• Separate graph for each item

• Graph shows response curve for the correct answer and each wrong answer choice

• Vertical axis: probability of choosing that answer

• Horizontal axis: measure of ability tested (usually total score on the test form)
Item Statistics

Multiple Choice, 5 choice

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>%Tot</td>
</tr>
<tr>
<td>A</td>
<td>272</td>
</tr>
<tr>
<td>B</td>
<td>176</td>
</tr>
<tr>
<td>C</td>
<td>90</td>
</tr>
<tr>
<td>*D</td>
<td>1901</td>
</tr>
<tr>
<td>E</td>
<td>146</td>
</tr>
<tr>
<td>Omt</td>
<td>18</td>
</tr>
<tr>
<td>NR</td>
<td>0</td>
</tr>
<tr>
<td>Rch</td>
<td>2603</td>
</tr>
</tbody>
</table>

Average Item Score 0.73
Delta 10.55
Correlation with Crit. 0.44
Percent Reached 100.00

difficulty

discrimination

Average Item Score 0.73
Delta 10.55
Correlation with Crit. 0.44
**Item Statistics**

- **Average Item Score**: 0.12
- **Delta**: 17.70
- **Correlation with Crit.**: -0.09

**Difficulty and Discrimination**

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What Happens When We Get an Inquiry?

- The inquiry (e-mail, SIR, letter) is directed to the inquiry manager
- The inquiry manager logs it in and identifies the item in question
- The inquiry manager gives the inquiry with accompanying material to the responsible test developer
What is the Process?

• Treat the preliminary item analysis findings and candidate inquiry as urgent.
  – Review the item and inquiry within 24 hours.
  – Have a NAC member blind key the item and review the issue.

• Why?
  – If there is an issue with an item, we want to be able to exclude the item from scoring before scores are processed and/or sent out.
RESULTS SO FAR...
Audiology Passing Rates
All Test Takers
Most Recent Test Code Passed

November 2011 to January 2013
Test Codes 0341 and 0342 Combined

<table>
<thead>
<tr>
<th>Test Code</th>
<th>Group</th>
<th>N</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>0341 and 0342</td>
<td>All Test Takers</td>
<td>1088</td>
<td>895</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>82%</td>
</tr>
</tbody>
</table>
Pass Rates from 2000 – 2011

Table 1. Audiology – All Exam Participants

<table>
<thead>
<tr>
<th>Test Year</th>
<th>Count</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>Pass</th>
<th>Percentage</th>
<th>Fail</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000-2001</td>
<td>794</td>
<td>622</td>
<td>36</td>
<td>614</td>
<td>77.3%</td>
<td>180</td>
<td>22.7%</td>
</tr>
<tr>
<td>2001-2002</td>
<td>742</td>
<td>625</td>
<td>37</td>
<td>584</td>
<td>78.7%</td>
<td>158</td>
<td>21.3%</td>
</tr>
<tr>
<td>2002-2003</td>
<td>763</td>
<td>622</td>
<td>39</td>
<td>581</td>
<td>76.1%</td>
<td>182</td>
<td>23.9%</td>
</tr>
<tr>
<td>2003-2004</td>
<td>590</td>
<td>619</td>
<td>39</td>
<td>424</td>
<td>71.9%</td>
<td>166</td>
<td>28.1%</td>
</tr>
<tr>
<td>2004-2005</td>
<td>541</td>
<td>625</td>
<td>39</td>
<td>404</td>
<td>74.7%</td>
<td>137</td>
<td>25.3%</td>
</tr>
<tr>
<td>2005-2006</td>
<td>492</td>
<td>631</td>
<td>39</td>
<td>400</td>
<td>81.3%</td>
<td>92</td>
<td>18.7%</td>
</tr>
<tr>
<td>2006-2007</td>
<td>471</td>
<td>635</td>
<td>37</td>
<td>389</td>
<td>82.6%</td>
<td>82</td>
<td>17.4%</td>
</tr>
<tr>
<td>2007-2008</td>
<td>500</td>
<td>635</td>
<td>37</td>
<td>431</td>
<td>86.2%</td>
<td>69</td>
<td>13.8%</td>
</tr>
<tr>
<td>2008-2009</td>
<td>523</td>
<td>641</td>
<td>34</td>
<td>469</td>
<td>89.7%</td>
<td>54</td>
<td>10.3%</td>
</tr>
<tr>
<td>2009-2010</td>
<td>585</td>
<td>642</td>
<td>34</td>
<td>532</td>
<td>90.9%</td>
<td>53</td>
<td>9.1%</td>
</tr>
<tr>
<td>2010-2011</td>
<td>575</td>
<td>638</td>
<td>32</td>
<td>514</td>
<td>89.4%</td>
<td>61</td>
<td>10.6%</td>
</tr>
</tbody>
</table>
### Program Data - Passing Status

All Test Taker Data – Most Recent Test Code Passed

November 2011 to January 2013

Test Codes 0341 and 0342 Combined

<table>
<thead>
<tr>
<th>Pass Rate Range</th>
<th>Out of 91 Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100%*</td>
<td>35 (38%)</td>
</tr>
<tr>
<td>80 – 89%</td>
<td>16 (18%)</td>
</tr>
<tr>
<td>70 – 79%</td>
<td>11 (12%)</td>
</tr>
<tr>
<td>60 – 69%</td>
<td>5 (5%)</td>
</tr>
<tr>
<td>&lt;60%</td>
<td>6 (7%)</td>
</tr>
</tbody>
</table>

*19 schools had 100% pass rate

Note: 18 schools had less than 5 test takers, therefore cannot calculate percentage for such a small N.
**Percent Correct by Category**

Based on data submitted for ASHA Certification)*

<table>
<thead>
<tr>
<th>Category</th>
<th>Percent Correct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations (10% of exam)</td>
<td>71.23%</td>
</tr>
<tr>
<td>Prevention &amp; Identification (10% of exam)</td>
<td>75.12%</td>
</tr>
<tr>
<td>Assessment (40% of exam)</td>
<td>77.64%</td>
</tr>
<tr>
<td>Intervention (30% of exam)</td>
<td>77.82%</td>
</tr>
<tr>
<td>Professional Issues (10% of exam)</td>
<td>71.06%</td>
</tr>
</tbody>
</table>
Current Status

• Lower passing rates on the Audiology Praxis Examination during 2011-2012 after administration of the new exam beginning November 2011

• Potential impact on accreditation status if the three-year average score falls below the 80% threshold
What CFCC Wants Faculty and Students to Know

- The exam is intended to be taken by AuD students in their 3rd or 4th year
  - It is not intended for undergraduates or individuals with a bachelor’s degree plus some additional credits

- The level of the exam has changed
  - Questions are now geared toward requisite knowledge achieved at the **doctoral level, as directed by the profession**
    - The exam questions are now at a higher level of learning in Bloom’s Taxonomy, as requested by the profession
    - There are more clinical decision-making questions (Analysis/Synthesis), rather than just at the knowledge/comprehension level
What CFCC Wants Faculty and Students to Know

- Passing score is 170 for audiology
- Each state determines its passing score for licensure & teacher certification; 170 in most states
- Only questions answered correctly count toward exam score; guessing is encouraged
- Raw points awarded for number of correct answers; scaled score computed from total number of raw points
What CFCC Wants Faculty and Students to Know

• Academic programs receive candidates’ score reports if students select academic program as score recipient.

• Programs receive annual aggregated report of exam scores in November of each year (contains highest score for reporting period plus test category scores from all candidates—must have at least 5 taking the test).

• In August, programs receive Annual Institution Delete Roster—programs should review and delete those who should not be represented—return to ETS.

• *Note: ETS and CAA recommend that academic programs not use the Praxis as a student summative exam for graduation.*
What CFCC Wants Faculty and Students to Know

• Results submitted for initial certification must have been obtained no more than 5 years prior to submission of application

• Audiology certification applicants who do not make a passing score have 2 years from date of application to retake and pass Praxis
Praxis Audiology Testing Schedules

• Upcoming paper administrations (0342)
  • July 20, 2013
  • September 21, 2013
  • March 8, 2014

• Audiology test will move to computer delivery in December 2013 (Test code 5342)
  • December 9-21, 2013
  • June 14-25, 2014

• Test fee to be $115—no registration fee
• Candidates to have access to reports for 1 year (formerly 45 days)

• Note: SLP test began computer-delivered administrations in December 2012
Resources for Faculty

- Institutional Section of Praxis Website
  - [http://www.ets.org/praxis/institutions/](http://www.ets.org/praxis/institutions/)
  - Workshops and test preparation materials
  - The Praxis™ Connection – Newsletter

- New score reporting delivery methods launching in May
  - ETS Data Manager (EDM)
    - Retrieve data by specific report date and testing program
    - Search by first name, last name, social security number or candidate ID #, test name, test date, date range and variable.
    - Create annual history reports
  - Web Service
    - Scores will be retrieved through a server-to-server connection
    - Data can be exported in XML
What Can Faculty Do?

- Know the Audiology test characteristics (see blueprint of test listed in the Study Companion)
- Know what courses cover the content
- Use the Study Companion to review your curricula
- Know and address any discrepancies between your curricula and the test
- Know and address common areas of weakness/difficulty
- Use free test preparation resources
Study Companion

- Provides test blueprint to help develop a study plan
- Includes important information about the test purpose and its use
- Delineates topics covered and in what proportion
- Provides detailed test specifications for all topics covered
# Study Companion

Provides test blueprint to help develop a study plan

## Audiology (0342)

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Audiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Code</td>
<td>0342</td>
</tr>
<tr>
<td>Time</td>
<td>2 hours</td>
</tr>
<tr>
<td>Number of Questions</td>
<td>120</td>
</tr>
<tr>
<td>Format</td>
<td>Multiple-choice questions</td>
</tr>
</tbody>
</table>

## Test at a Glance

<table>
<thead>
<tr>
<th>Content Categories</th>
<th>Approximate Number of Questions</th>
<th>Approximate Percentage of Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Foundations</td>
<td>12</td>
<td>10%</td>
</tr>
<tr>
<td>II. Prevention and Identification</td>
<td>12</td>
<td>10%</td>
</tr>
<tr>
<td>III. Assessment</td>
<td>48</td>
<td>40%</td>
</tr>
<tr>
<td>IV. Intervention</td>
<td>36</td>
<td>30%</td>
</tr>
<tr>
<td>V. Professional Issues</td>
<td>12</td>
<td>10%</td>
</tr>
</tbody>
</table>

The pie chart and table highlight the topics covered and in what proportion.

- **I. Foundations**: 12 questions, 10% of examination
- **II. Prevention and Identification**: 12 questions, 10% of examination
- **III. Assessment**: 48 questions, 40% of examination
- **IV. Intervention**: 36 questions, 30% of examination
- **V. Professional Issues**: 12 questions, 10% of examination
Resources for Students

• Become familiar with the Praxis website
  • www.ets.org/praxis
  • Choose ASHA from the drop down box to learn about the audiology test requirements
• Take advantage of the test preparation options for the Audiology Praxis
  • Free Resources
    • Study Companion (0342) – Study Companion
    • Strategies for Success
    • Reducing test anxiety
    • General information and study tips
    • Test Prep Webinars
  • Resources for a fee
    • Audiology Study Guide eBook ($22.95)
What Can Candidates Do to Prepare?

- Know about the Audiology test
- Prepare a Study Plan to aid in a thorough review of content
- Practice responding to sample questions from the Study Companion
- Practice by taking the sample test in Audiology Study Guide
- Practice time management strategies
- Practice anxiety-reducing techniques
Test Prep Discount Offer

Save 10% on *Praxis* Test Preparation

1. Visit www.ets.org/praxis/store
2. Enter Promo Code: CRDKP

Note: promo code is not case sensitive
Score Reporting

• During registration, candidates can send scores to designated score recipients and have the ability to make later revisions prior to their test day
• Score reports available in 15 days business for paper and pencil tests (see schedule in Bulletin or Praxis website
• Score reports available in 10 business days for computer-delivered tests
  • Multiple-choice tests give test taker his/her unofficial score before leaving test center
• Candidates can access score reports for ONE YEAR from web
• Scores are kept by ETS for 10 years
Category Performance Available on Institutional Copy of Praxis Score Report

• Opportunity to analyze areas of strengths and weakness for cohorts of students
• Opportunity to advise students for future studying
• If candidate will be retaking the test:
  • He/she should consult with advisor
  • Focus his/her studies on areas where he/she can gain the most additional points with improvement
  • Gather resources/materials in these topic areas
  • Should not retake the test without preparation!
## Score Report Showing Category Performance

<table>
<thead>
<tr>
<th>Test Category</th>
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