

# Writing Items for Hospice and Palliative Certification Examinations

**SECRETS OF COMPETENCY TESTING:  
WRITING ITEMS FOR HOSPICE  
AND PALLIATIVE CERTIFICATION  
EXAMINATIONS**

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The planning committee members  
and the presenters have  
declared no conflict of interest  
involved in the content  
contained in this course.

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**AGENDA**

Part I

- I. Overview of Measurement
- II. Item Anatomy and Item Types
- III. Cognitive Levels

Part II

- IV. Subverting Test Wiseness
- V. General Rules for Item Writing

Part III

- VI. Item Writing and Feedback

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# Writing Items for Hospice and Palliative Certification Examinations



Overview of Measurement

- Job Analysis
- Test Specifications
- Item Writing
- Examination Development
- Standard Setting
- Administration and Scoring

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## Job Analysis

- Also called a Role Delineation Study
- Purpose: to identify practice
- Upholds standards of testing
- Conducted by Advisory Committee
- Survey distributed to national sample
- Results show importance of tasks

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## Test Specifications

- Developed based on judgment:
  - from hundreds of respondents, as interpreted by Advisory Committee
- Ensures content validity
- Used to build all examinations
- Provides information to candidates
  - Why is that important?

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# Writing Items for Hospice and Palliative Certification Examinations

## Item Writing

- Training provided through workshop
- All items linked to specifications
- Consistent style and format



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## Examination Development

- Unanimous agreement of experts
- Comparable examination forms
- Exactly match test specifications
- Extensive review process



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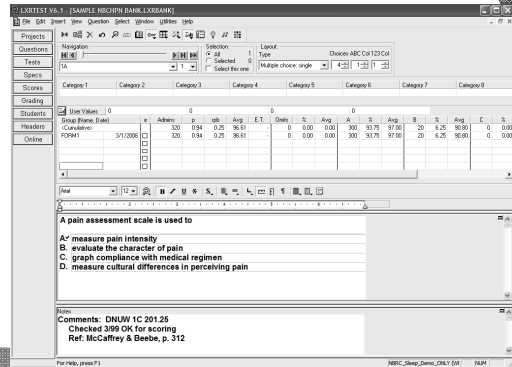
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## Sample of LXR\*Test Item Banking System



Projects: [Icons]

Questions: [Icons] Selection: 1 Label: Chosen ABC Col 123 Col

Tests: [Icons] Selected: 0 Type: Multiple choice single

Search: [Icons] Select this one

Stores: Category 1 Category 2 Category 3 Category 4 Category 5 Category 6 Category 7 Category 8

Grading: [Icons]

Students	Score	0	1	2	3	4	5	6	7	8	9	10				
3/1/2006	320	0.94	0.25	96.61	-	0	0.00	0.00	300	93.75	97.00	20	5.25	96.00	0	0.00
3/1/2006	320	0.94	0.25	96.61	-	0	0.00	0.00	300	93.75	97.00	20	5.25	96.00	0	0.00

Item: [Text area]

A pain assessment scale is used to

- A. measure pain intensity
- B. evaluate the character of pain
- C. graph compliance with medical regimen
- D. measure cultural differences in perceiving pain

Notes: [Text area]

Comments: DNUW 1C.201.25  
Checked 3/09 OK for scoring  
Ref: McCaffrey & Beebe, p. 312

For Help, press F1

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# Writing Items for Hospice and Palliative Certification Examinations

## Standard Setting

- Criterion-referenced
- Definition of borderline candidate
- Use judgments of content experts
- Consistency through equating
- Passing depends on amount of knowledge displayed, not the ability of other candidates

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## Scoring

- Quality control procedures
- Review of item analysis
- Review of candidate comments
- Final scoring

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## Item Anatomy and Item Types

- Multiple Choice - WHY?
- Each measures one unit of content
- Response allows inference about candidate's ability in this content area
- All items linked to outline, which allows inference about job-related competencies

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# Writing Items for Hospice and Palliative Certification Examinations

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## Item Components

- Stem and four Options
- **Stem** - the statement or question to which candidates respond. The stem can also include a chart, table or graphic. The stem should clearly present the central problem or idea.



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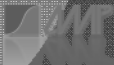
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## Example Stems

- **Direct Question:**
- In a terminally ill patient, dysphagia would most likely indicate which of the following?
- **Incomplete Statement:**
- Dysphagia in a terminally ill patient would most likely indicate

**Novice writers tend to write clearer direct question item types. If you are new to item writing, it is best to concentrate on that type.**



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## The four options will include:

- one key
  - the key is the best or most appropriate of the *available* options
- three distractors
  - *plausible*, yet incorrect responses or completions
- Why four options?



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# Writing Items for Hospice and Palliative Certification Examinations

**Negatively worded item stems**

- should be avoided
- try to rewrite as positively worded
- can cause measurement error when able candidates become confused



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**Cognitive levels**

- Recall
  - an effort of rote memorization
  - never situationally dependent
- Application
  - interpretation, classification, translation, recognition of elements and relationships
- Analysis
  - synthesize information, solve problems, evaluate the best response



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**Recall item**

The authority to make decisions regarding a patient's care ultimately rests with the

- A. patient/family.
- B. attending physician.
- C. interdisciplinary team.
- D. Hospice medical director.



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# Writing Items for Hospice and Palliative Certification Examinations

## Application item

If a patient with a history of breast cancer experiences pain between the shoulder blades, it is most likely to indicate metastases to the

- A. liver.
- B. bone.
- C. brain.
- D. pancreas.

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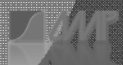
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## Analysis item

A certification examination shows a reliability index of .45. One-half of the items have  $p$  values greater than .90, and 15% have negative point-biserial correlations. The psychometrician should recommend that the committee write

- A. longer, more difficult to read items that are more clearly job-related.
- B. easier items, focusing on basic facts.
- C. more difficult items, with better distractors.
- D. stems requiring complex computations.

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## How to write items to test higher cognitive levels

- ⦿ develop an evaluative objective
- ⦿ think about job-related situations
- ⦿ expand on opportunities (problems) that have occurred



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# Writing Items for Hospice and Palliative Certification Examinations

**Evaluative Objectives**

- ◎ Recall:  
identify, define, recognize, restate
- ◎ Application:  
compute, differentiate, specify
- ◎ Analysis:  
judge, estimate, predict, conclude

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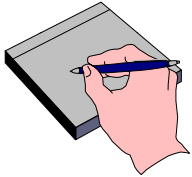
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**PLEASE COMPLETE THE  
ITEM WRITING APTITUDE TEST**



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