



Lesson Plan: Test Item Construction

Topic: Test Item Construction

Presenter: West Michigan Regional Medical Consortium CE Sponsor Program

Location: West Michigan Regional Medical Consortium CE Sponsor Locations

Credit Category: Measurement and Evaluation

License Level: IC

Credits: 8

Format: 8 hour lecture

Objectives: The participant of the CE session will:

Cognitive

1. Describe common considerations for test instruments.
2. Discuss the three types of tests used in fire and emergency service training.
3. Explain the steps for test planning.
4. Describe the process to select a test scoring method.
5. Identify and write appropriate test items

Psychomotor

None

Affective

None

Outline for Lecture Presentation:

1. Introductions
2. Test Instruments
 - a. Test Instruments
 - b. Common Considerations for all tests
 - c. Test formatting
 - d. Test item arrangement
 - e. Test item level of cognition
 - f. Test difficulty
 - g. Test discrimination
 - h. Test Instructions
 - i. Time Requirements
 - j. Testing Bias

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3. Written tests
 - a. Multiple Choice
 - b. True and False
 - c. Matching
 - d. Short answer
 - e. Essay
 - f. Interpretive exercises
 - g. Oral tests
 - h. Performance or skills tests

4. Test Planning
 - a. Determine Test Purpose and classification
 - b. Identify learning objectives
 - c. Construct appropriate test items
 - d. Selecting proper level of test item difficulty
 - e. Determining appropriate number of test items
 - f. Eliminating testing language and comprehension barriers
 - g. Avoiding giving clues to test answers
 - h. Ensuring test usability
 - i. Ensuring validity and reliability

5. Test Scoring Method
6. Write appropriate test items
7. Summary and questions

Student Evaluation Method: No formal evaluation of participants will occur.

Evaluation of Presentation: Continuing Education Program Sponsor Evaluation Form will be filled out by all participants.

Rationale for Presentation: The rationale for this presentation is to give Instructors tools to create testing instruments and understand various types of tests that may be used to assess whether or not the student has achieved the learning objectives. Instructors must also understand how tests are scored and graded and what criteria will be used to determine whether a student has passed or failed a course.