

# Evaluating Validity of an SLO Assessment

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# Purpose/Attributes:

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- Align with intended learning outcomes
- Provide useful feedback about learning
- Provide clear criteria for levels of performance toward learning outcome achievement
- Adequate to make valid inferences about performance toward intended learning (teachers & students)
- and *Maybe* provide a means for establishing a grade

# Big Question:

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Is my assessment appropriate  
for the identified intended  
learning?

# Evaluation:

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## *Content*

Does the knowledge required in the assessment align with the knowledge identified in the intended learning outcomes?

## *Construct*

Does the assessment actually measure what it purports to measure, i.e. what are the students expected to do with the knowledge?

Does the assessment ask the student to apply knowledge and abilities in a meaningful way that they would expect to encounter in a real-world scenario?

# Example:

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## *Identified Intended Learning*

SLO #7 Analyze construction documents for planning and management of construction processes.

# Example:

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### Bloom's Action Verbs for *Analyze*

The student can distinguish between parts, how they related to each other, and to the overall structure and purpose: **compare, contrast, criticize, differentiate, discriminate, question, classify, distinguish, experiment.**

# Example:

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## *Identified Intended Learning*

SLO #7 Analyze construction documents for planning and management of construction processes.

### Defining Performance Criteria

1. Align information in project specifications to project drawings.
2. Review plans, specs, and contracts to distinguish trade related work requirements.
3. Classify information from project drawings to aid in execution of cost and schedule development, constructability analyses, safety evaluation, risk analysis, and site logistics planning.

# Example:

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## *Assessment Option 1*

A test that includes multiple choice, true/false, and matching type questions about elements of drawings and specifications such as organization, symbols, and nomenclature.

i.e. Which of the following types of drawing symbols is used to show wall construction details?

A: Elevation Marker

B. Bubble or Cloud

C. Section Flag

D. None of the above

Valid or Invalid?



# Example: Evaluation

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# Example: Evaluation

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# Example:

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## *Assessment Option 2*

A test that includes multiple choice, true/false, and matching type questions in which students are required to reference drawings, specifications, contracts, and trade bids to identify the answers.

Valid or Invalid?

# Example:

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*Assessment Option 3*

Constructed response assignment – “Scope Review”

Valid or Invalid – Content & Construct?

# What's Next????

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Take it slow!!!!

- Review your existing assessments
- Do they have clearly associated learning criteria
- Does the content in and the type of assessment align with the identified learning criteria (what students are expected know and be able to do)
- Is the criteria clearly identified for how a student will be evaluated on their level of achievement in the assessment (rubrics if necessary)
- Reflect, Revise and Redo based on the results
- Then share what you have learned with the Construction Education Community

# Thank You!

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