

Fordham Council on Applied Psychometrics Workshop

Assessment Operationalization Exercises

with Michael Chajewski

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Exercise 1: The test is too long

The client has decided that the full-test experience is too long. The commissioner would like to reduce testing time by 10 minutes. Additionally, based on educator feedback, only one TEI is desired to be on the form.

1. What changes to the blueprint would you recommend to meet the requests? Why?
2. How would you alter the assessment plan and field-test design?
3. What impact to the reliability would you expect?
4. What impacts to test construction would you anticipate?

Exercise 2: Scaling alternatives

The technical advisory committee was concerned that the scaling form may not have been representative of the sampled domain for content development.

1. Setting the local origin of the scale to be defined as the average person ability (results provided UPMEAN), all other things being equal, how would the
2. What concerns would you have about centering the scale on persons initially?
3. In the original (operational) scaling, the TAC wondered what the scale score would look like if instead of linear interpolation the average performance was anchored at the approaches scale score cut, and the standard deviation was dictated to be 15?
4. What qualitative reporting scale differences to the previous scale would occur?

Exercise 3: Item bank sustainability

The client and content development services want to understand how to strategize building an effective and sustainable item bank for the assessment.

1. How many items would this assessment program need in the bank to provide content development specialists at least 3 items alternatives to choose from when considering selecting an item to the next form?
2. Under the operational assessment plan and field-test design, how many administrations (including the launch) will it take to achieve the item availability goal (in No. 1 above)?
3. If the agency were to authorize a stand-alone field-test study, with 2,000 state-wide representative students, available for 30 minutes, how many additional SCR items could be field-tested, and how much would it shorten the wait for a sustainable bank (No. 2)?