



Overview of Standard Setting

Certification

Committee

August 15th, 2020

Setting Cut Scores & Equating

- Establish passing point
- Multiple methods
 - Item level
 - Test level

- Relate scores across forms
- Multiple methods
 - Linking
 - Equating
 - Same interpretation
 - Same meaning
 - Same K,S, L

Setting Cut Scores

Multiple methods for establishing cut scores

Modified Anghoff method

- April 4-6, 2019
- Establish difficulty per item
- Multiple (3) rounds to norm
- Average across judges
- Supplemented by passing rate and descriptive statistics

2018 Statistics

	220318	220518	220718	220918
Number of examinees	135	34	68	54
Number of examinees who passed	133	32	67	53
Pass Rate	98.52%	94.12%	98.53%	98.15%
Cut Score (Passing Point)	85	87	85	86
Average Score	118.3	112.5	113.4	120.0
Average Deviation	10.3	11.3	11.5	9.4
Standard Deviation	13.3	16.6	14.4	12.3
Standard Error	1.15	2.9	1.8	1.7

ATCB Anghoff Process

Question Number	CCM1	CCM2	CCM3	CCM4	CCM5	CCM6	CCM7	CCM8
1	90	100	65	75	75	95	75	80
2	60	90	65	60	60	90	60	60
3	65	100	75	40	75	75	50	75
4	60	75	60	55	95	90	70	70

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Elements of Test For Development

Items

Item properties

Judges' judgements

Cut score

Mapping to content outline

Sample

Performance of the sample

Protections

- Anchors
 - Allow us to parse apart test differences and sample differences
- Equating based on CTT
 - Scale scores
- Maintain the integrity of forms across time

New Cut Scores

$$\frac{(C_1 - \bar{x}_1)}{s_1} = \frac{(C_2 - \bar{x}_2)}{s_2}$$

$$C_2 = \frac{s_2(C_1 - \bar{x}_1)}{s_1} + \bar{x}_2$$

	Baseline Exam	New Exam
<i>Form:</i>	220120	220220
<i>Mean</i>	113	120.2
<i>Standard Deviation</i>	14.5	14.7
<i>Cut Score</i>	100	

New Cut 107

Decision Consistency

	Exam Forms			
	220419	220619	220919	220D19
mean test	115.5	116.6	116.5	116.1
SD test score	14.5	15	12.4	12.8
var test score	210.25	225	153.76	163.84
KR20	0.86	0.87	0.80	0.82
num items	170	170	170	170
Cut score	98	98	102.18	100
Cut score %	57.6%	57.6%	60.1%	58.8%
Decision Consistency	0.94	0.95	0.91	0.93