

Did They Learn It? Can They Do It? Can You Prove It?

Getting Trustworthy, Defensible Results when Assessing Knowledge, Skills and Abilities



Before we get started...

Watch for an email after the webinar to:

- Download slides (PDF)
- View a recording

To ask questions, use

the "Questions" feature

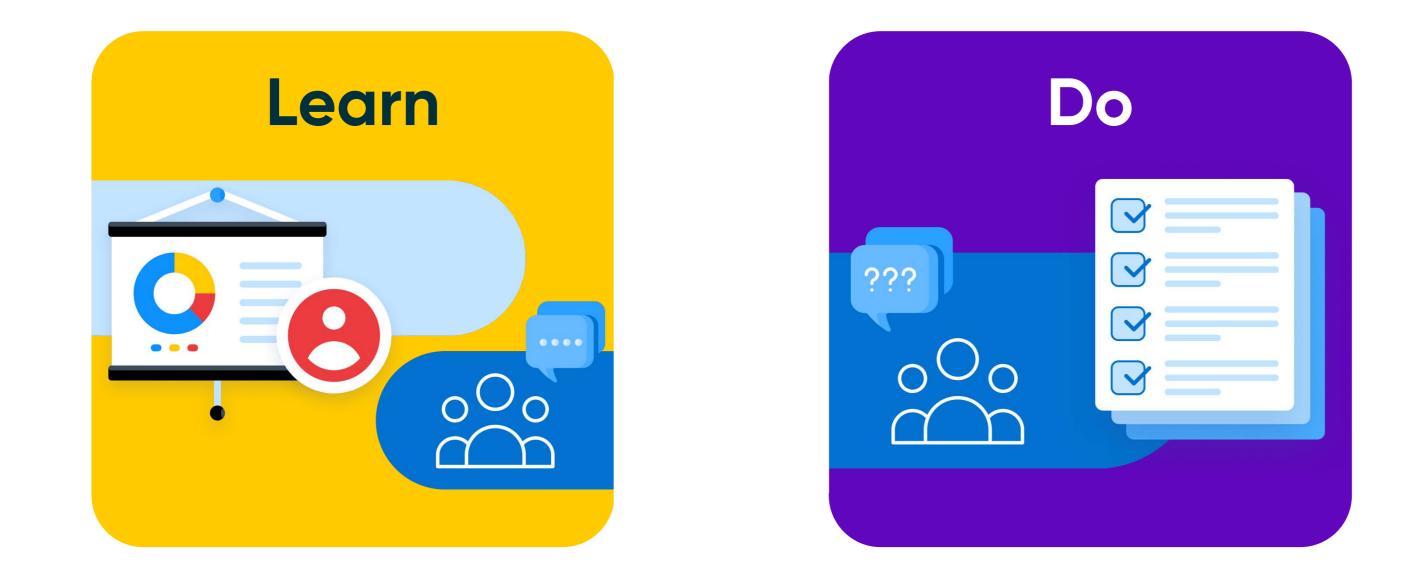


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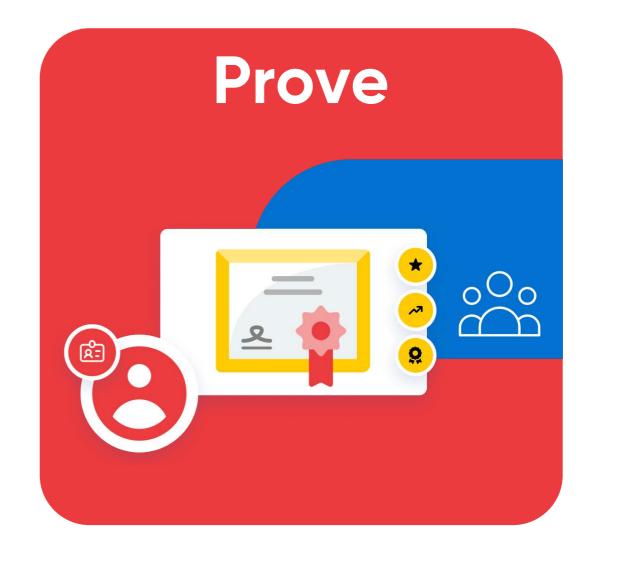
Questionmark's Mission

Questionmark's mission is to provide the highest quality testing and assessment software and support services to enable individuals and organizations reach their goals.

What can we learn from assessments?









What we'll cover today

Strategic role

of assessments

Importance of validity and reliability

Measuring

"above knowledge"



Planning an assessment

Assessments and

evaluating learning



Assessments provide strategic benefits

- Make informed, defensible personnel decisions
- Mitigate regulatory compliance risk
- Align workforce competencies with organizational objectives
- Target learning investments accurately
- Onboard new employees effectively
- Verify skills/knowledge vital organizational KPIs
- Enhance learning/knowledge retention









Stakes of assessments

- Life, limb and livelihood
- Reputation



Banks fined £2bn over forex scandal

Auto Manufacturer to Spend \$14.7 billion to Settle Emissions Case

Bank Fined US\$185 Million over unauthorized accounts

Roofer's first-day injury costs Florida contractor \$152K OSHA fine

Universities fined millions for how labs how their labs managed chemical waste



Workplace assessment: Stakes of pre/post-hire testing

An HR decision made based on the outcome

The decision has an impact on a person's employment conditions

- Hiring
- Promotion
- Demotion
- Membership (for example in labor organization)
- Referral
- Retention
- Licensing and Certification

above"



- Uniform Guidelines for Employee Selection Procedures (US EEOC, 1978): "Employment decisions include but are not limited to:

"Selection for training or transfer, may also be considered employment decisions if they lead to any of the decisions listed





Three foundations for good tests

Validity

• Degree to which evidence and theory support the interpretation of test scores for proposed uses of tests

Reliability (or precision)

- Consistency of scores across instances of the testing procedure
- Reduced measurement error

Based on "The Standards for Educational and Psychological Testing" AERA/APA/NCME



Fairness

- Fair and equitable treatment of all individuals in the intended population of testtakers
- Does not advantage or disadvantage individuals because of characteristics irrelevant to the construct being measured



How do we get there?



Typical assessment development process







Document the purpose of your test

Why?

- Why are you delivering the test?
- Whether norm referenced or criterion referenced

Who?

- Who is taking the test?
- What are their language and computer skills?
- What diversity/fairness issues are important?



What?

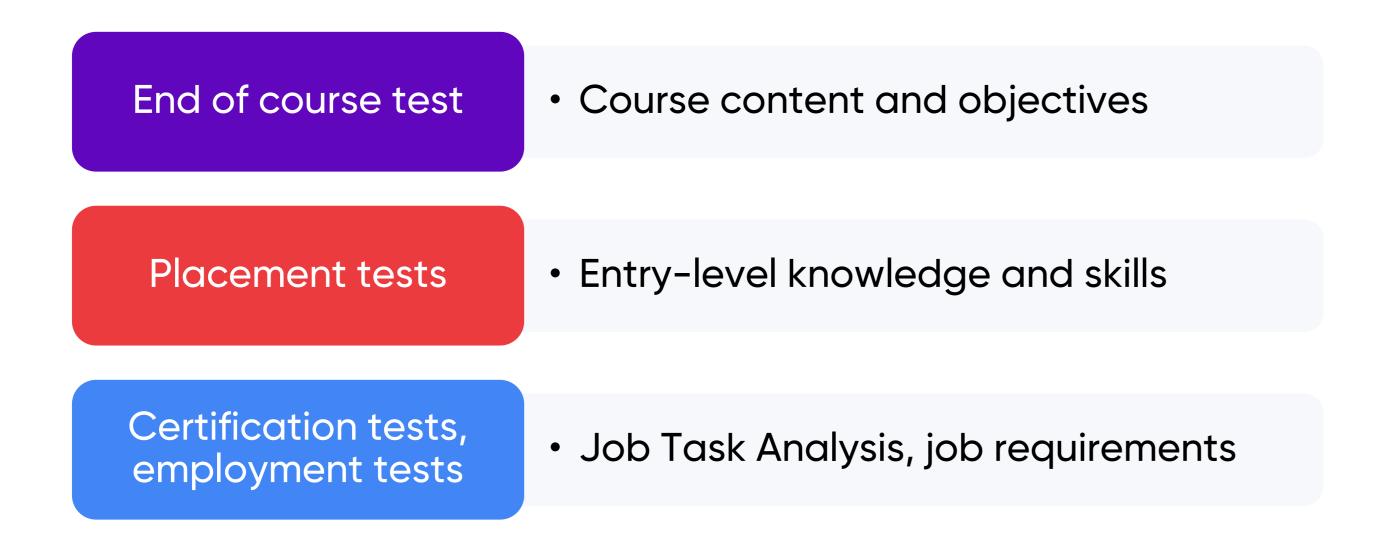
• What construct or domain is being measured?

How?

- What action if someone passes?
- What action if someone fails?
- How else will you use the scores?



Determine content of the test based on the purpose





- Develop a test blueprint (AKA "test content outline")
- Covers what is included and what is excluded
- Often a series of objectives and a weighting
- May include key knowledge or skills areas to include



Job Task Analysis

Identify tasks and behaviors

Identify conditions and environment

Identify Knowledge, skills and abilities required



Methods

- Panel of experts to describe the job
- Panel of stakeholders to define expectations
- Interview experts and stakeholders
 - What is done?
 - Why is it done?
 - Why is it important?
- Survey experts and stakeholders to identify trends or patterns
- Review related literature and documentation



Job Task Analysis (JTA) Surveys for content planning, validity

- Job Task Analysis to determine and validate content of test
- Test Blueprint built from JTA, which drives test item development.

Survey SMEs about key tasks:

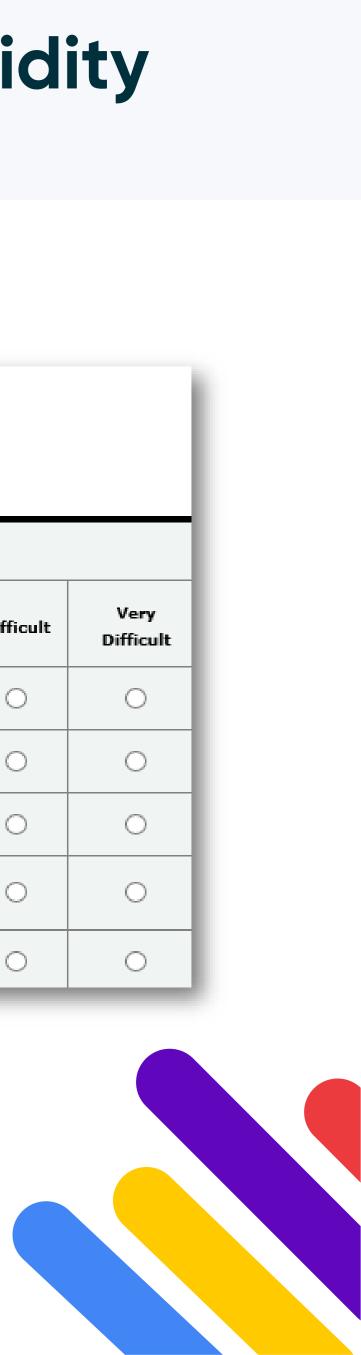
How Difficult? How Important? How Frequent? How Critical?



2 of 3 What is your role in the organization? \sim

3 of 3 Answer questions about nursing.

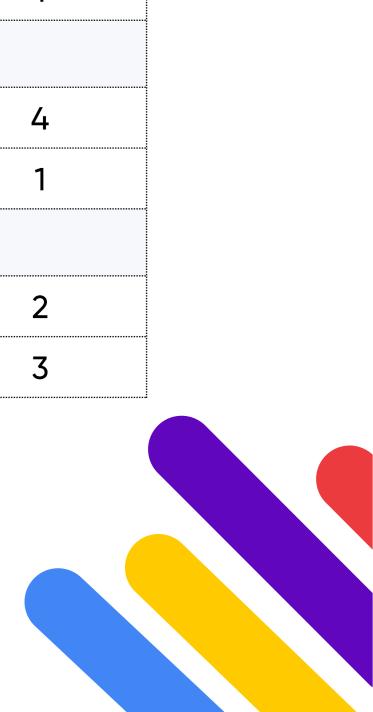
	A	pplicability		Difficulty						
	Do Task	Supervise Task	N/A	Very Easy	Easy	Neither Easy or Difficult	Difficult	Very Difficult		
Administering medication	0	0	0	0	0	0	0	0		
Assessing patients	0	0	0	0	0	0	0	0		
Assisting patient	0	0	0	0	0	0	0	0		
Communicating with family members	0	0	0	0	0	0	0	0		
Cleaning surgical area	0	0	0	0	0	0	0	0		



Simple example of assessment blueprint

Electrical Skills Test – Blueprint	% of test	# items	Easy	Medium	Hard
Topic 1: AC Motors	45%	34			
Subtopic 1.a		21	8	8	5
Subtopic 1.b		8	2	5	1
Subtopic 1.c		5	2	2	1
Topic 2: High-voltage switchgear	25%	19			
Subtopic 2.a		12	3	5	4
Subtopic 2.b		7	2	4	1
Topic 3: Synchronous Motors	30%	23			
Subtopic 3.a		11	2	7	2
Subtopic 3.b		12	4	5	3





Approaches to developing test blueprints

Process-Based Blueprints

- Define processes to be assessed
 - Cognitive processes
 - Processes related to job performance
- Built around verbs often in the form of learning
 objectives (Raymond & Neustel, 2006)
 - "participant is able to analyze the difference between..."
 - "participant can operate the equipment needed to..."

Provides guidance on types of behaviors items should be designed to elicit



Content-Based Blueprints

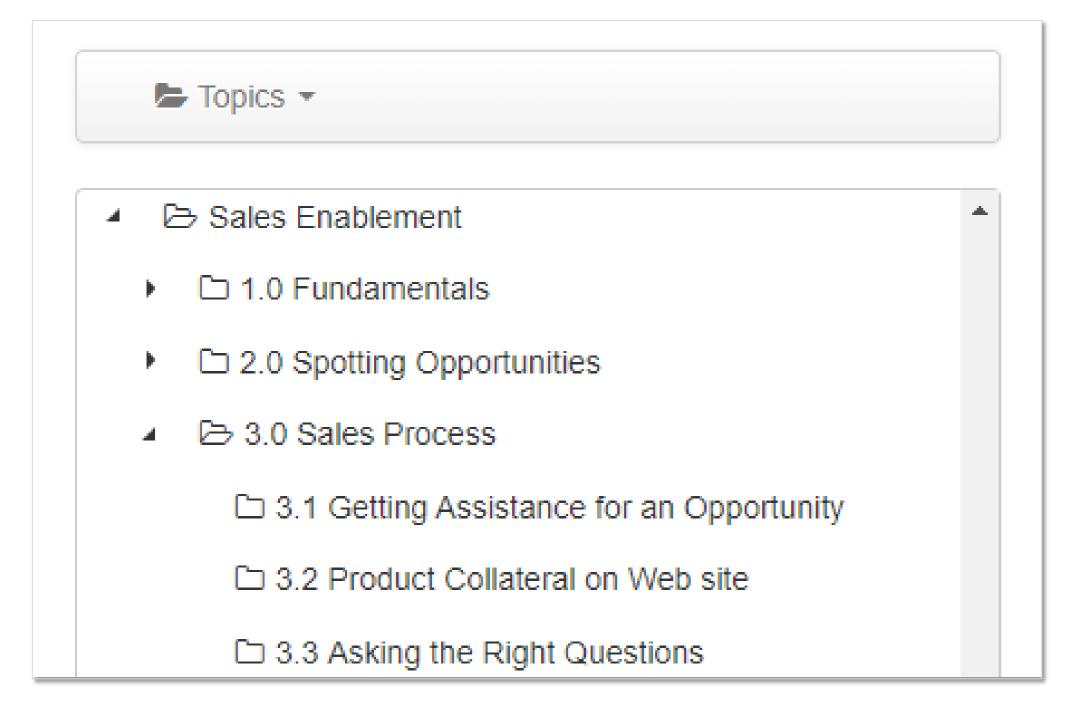
- Define content to be assessed, such as:
 - Curricular or training content
 - Problems often encountered on the job
- Based on nouns that identify topics (Raymond & Neustel, 2006)
 - "Algebra"
 - "Client Support"

Easy to communicate content of the assessment, easily mapped to curriculum



Relevant Questionmark features

Questions Organized by Topic/Subtopic





Meta tags for additional categorization

 3-Tier Item Difficulty Rating - Difficulty rating of item 		
Bloom's Taxonomy - Revised - Hierarchical models used to classif		
1 - Recall		
2 - Understand		
🗆 🗅 3 - Apply		
4 - Analyze		
D 5 - Evaluate		3
	F	



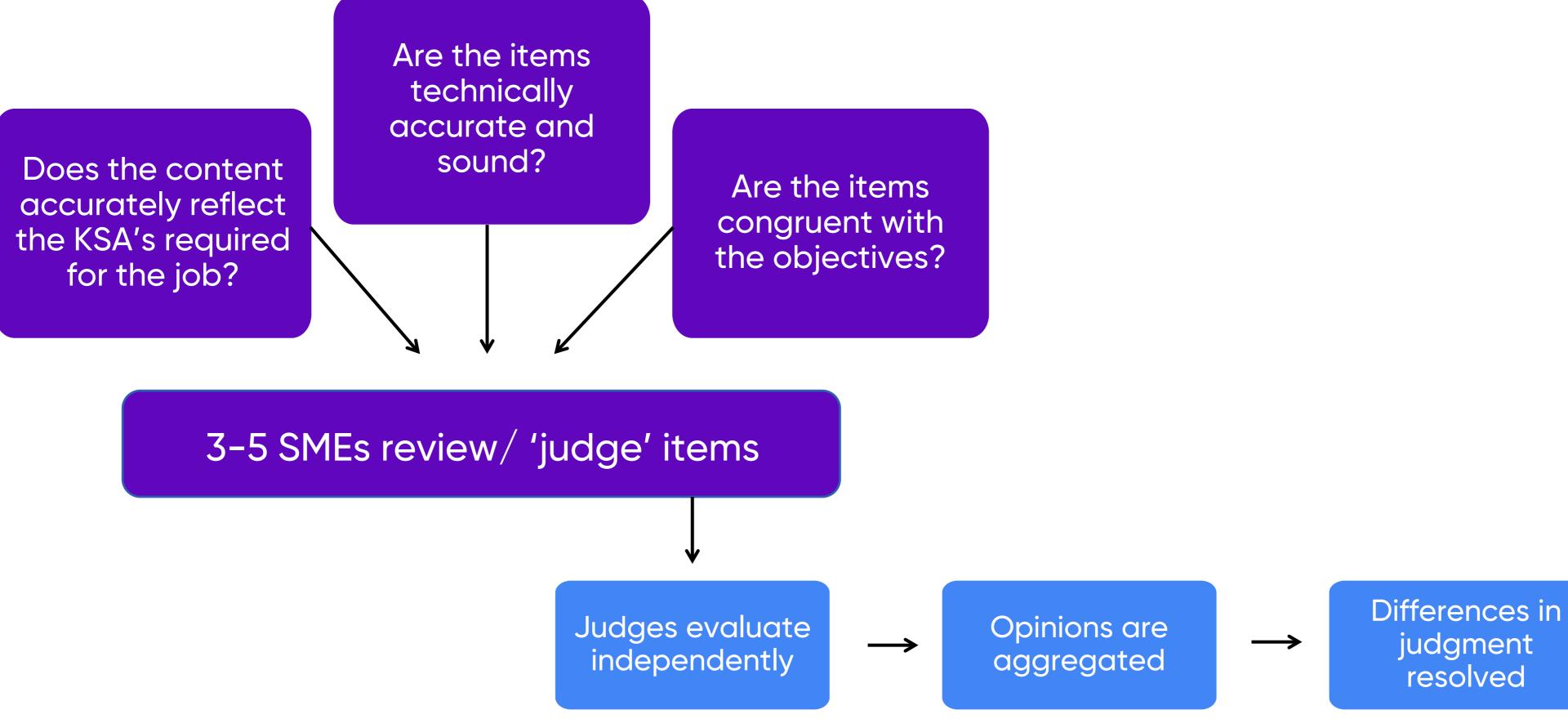
Content and process together

									ive Level					
Content	Weight	# Items	Rem	ember	Unde	rstand	Ar	ply	Ana	alyze	Eva	luate	Cre	eate
			to list three i a PB&J	ngredients in	to explain the texture profil	es of	to find the re ingredients a		to differentia unlabeled jar	rs of crunchy	used in a PB			
	5.00/				ingredients ir	n a PB&J	store		PB and cream	ту РВ	Elvis		Log	Initive Leve Inmark metc
Ingredients	50%	50										(Questio	nmark metc
			Weight	# Items	Weight	# Items	Weight	# Items	Weight	# Items	Weight	# Items	Weight	# Items
			25%	12-13	25%	12-13	25%	12-13	15%	7-8	10%	5		
			to list the ord	der of	to explain po	tential	to prepare a	PB&J, given	to identify PE	3&Js that have	to explain w	hat steps		
			ingredients i	n a completed	problems that	t arise when	the ingredier	nts and	been assemb	led	might have b	een done		
			PB&J		assembly is n	ot done	kitchen tools	i -	incorrectly		incorrectly, v	vhen given an		
Assembly	30%	30			properly					\mathbf{i}	incorrectly as	ssembled PB&		
F										\mathbf{i}	to review			
			Weight	# Items	Weight	# Items	Weight	# Items	Weight	# Items	Weight	# Items	Weight	# Items
	$\underline{\ }$		40%	12	30%	9	10%	3	10%	3	10%	3		
			to describe p	rinciples of	to predict if a	customer wil	l to remove cr				\mathbf{N}			
			proper PB&J	presentation	be able to eat	t a PB&J	PB&J at vari	us angles						
					without getti	ng sticky		\backslash						
resentation	20%	20			fingers, given	а		$\mathbf{\lambda}$				\mathbf{i}		
					presentation			$\mathbf{\lambda}$				\mathbf{i}		
			Weight	# Items	Weight	# Items	Weight	# Nems	Weight	# Items	Weight	# Items	Weight	# Items
		_		Content		4	30	Weight o				Process	205	
		_									(*			
			luest	onmark ⁻	opics)		C	issessme	ent		(I.e. Le	arning O	pjective	S)





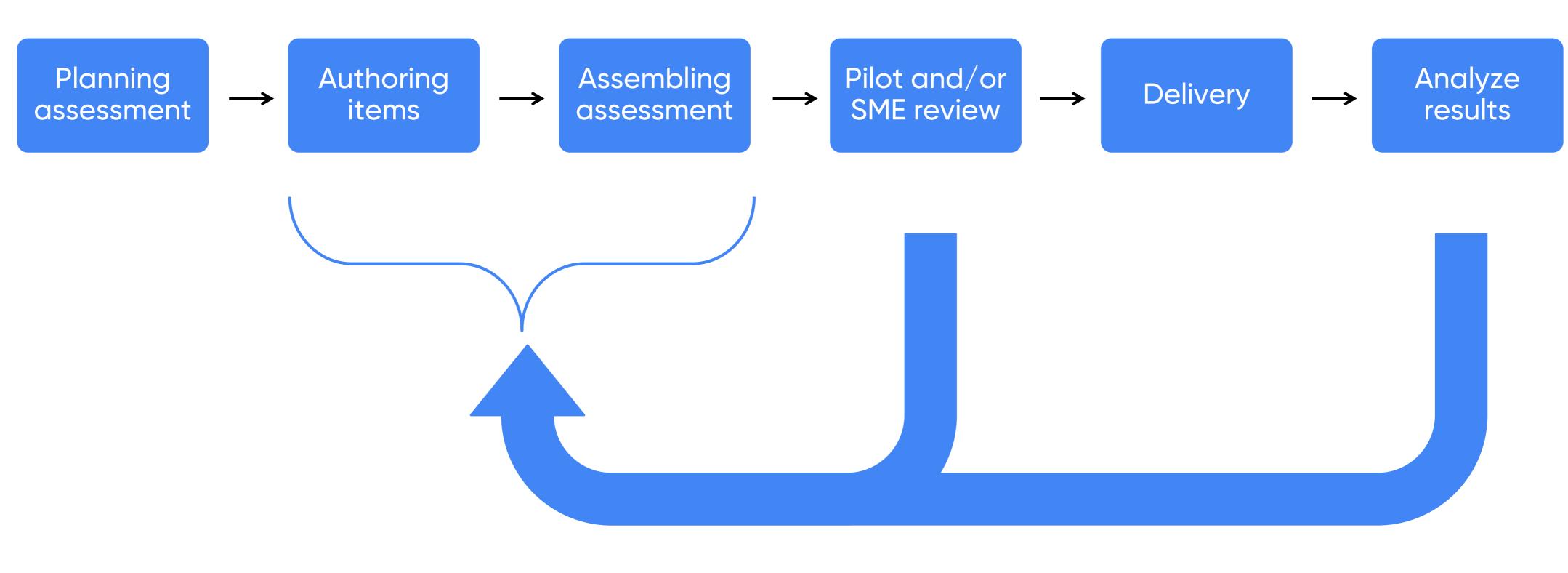
Content validity review







Assessment development: A process and a cycle





Analyze item response statistics

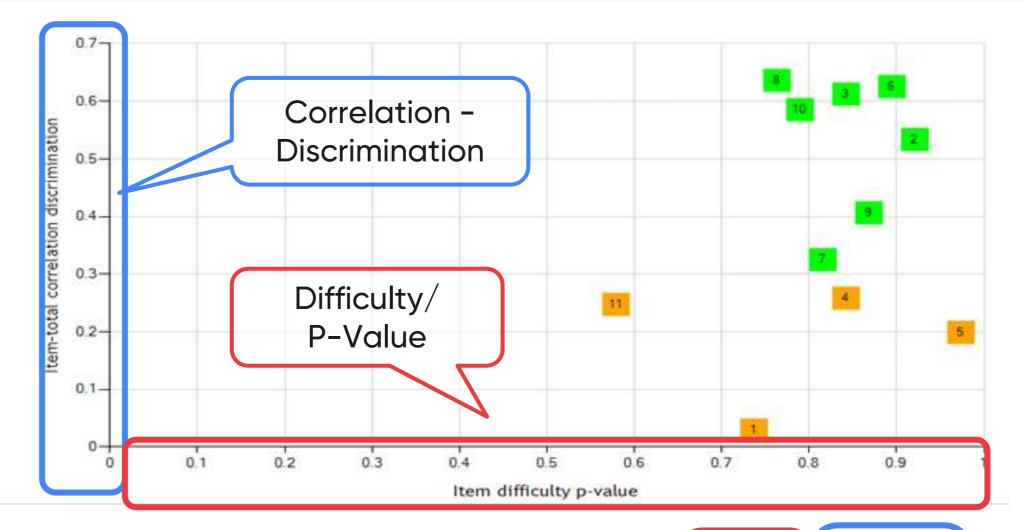
Difficulty index ("P value")

- ~% answered correctly
- Expressed as from 0.0 to 1.0
 - Too high: Too easy
 - Too low: Too difficult? Confusing/ambiguous? Miscoded?

Correlation discrimination

- Correlation between item and assessment scores
- How effectively the question differentiates between participants of different knowledge/skill levels





Question description \$	Revision	Topic 4	Item difficulty (p-value	Item-total correlation discrimination	¢
A multiple choice question must have at least four choices.	2	Item Writing Best Practices	0.737	0.03	
In test questions, it is good practice to inlcude implausible, nonsense, or humorous, incorrect choices.	2	Item Writing Best Practices	◆ 0.921	I 0.534	
Phrasing a question as, Which of the following is not is considered best practice.	3	Item Writing Best Practices	♦ 0.842	0.613	



Measuring Above Knowledge

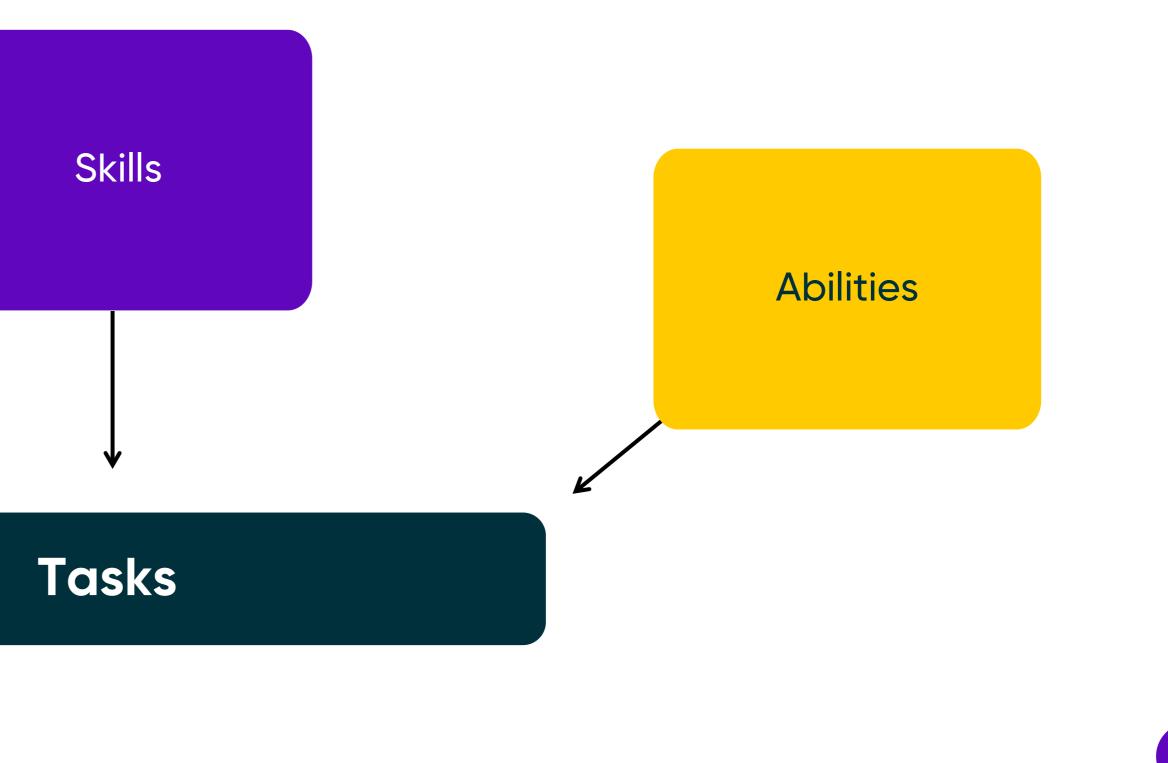


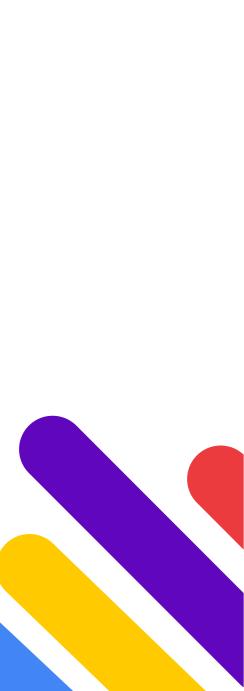


Competencies and performing tasks

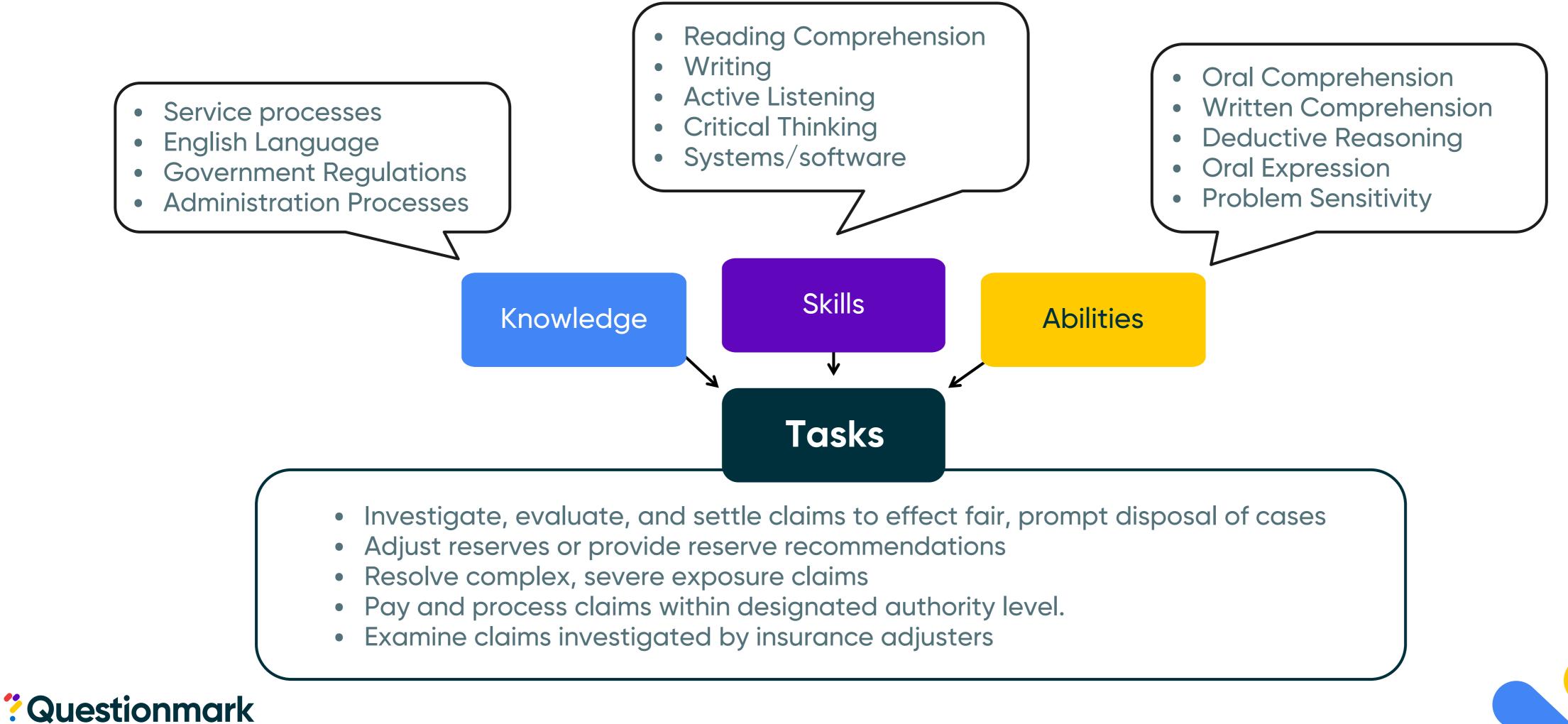
Knowledge







Example: Insurance Claims Examiner





Competencies measured

Knowledge (a cognitive Skill)

- Memory is a cognitive skills that provides ability to recall knowledge:
 - "Knowledge How"
 - "Knowledge To"

Observable Skills

- Motor Skills i.e. physical movement/coordination
- Inter-personal skills

Ability to Do/Perform "Competency"

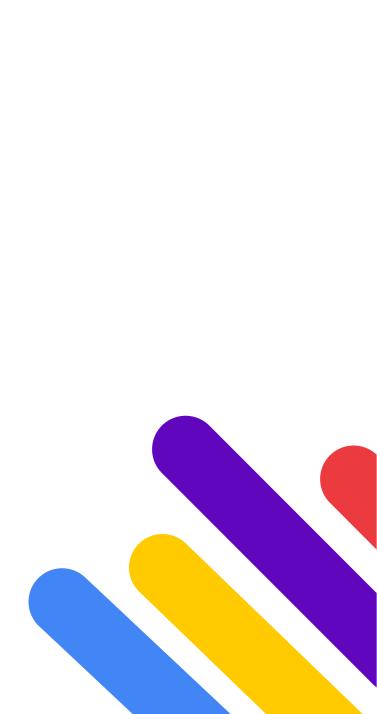


Above Knowledge Skills

- Cognitive skills above recalling knowledge
- (Comprehension, Application, Analysis, Synthesis and Evaluation)

Attitudes and Behaviors

- Motivation
- Ability to achieve goals
- Team fit



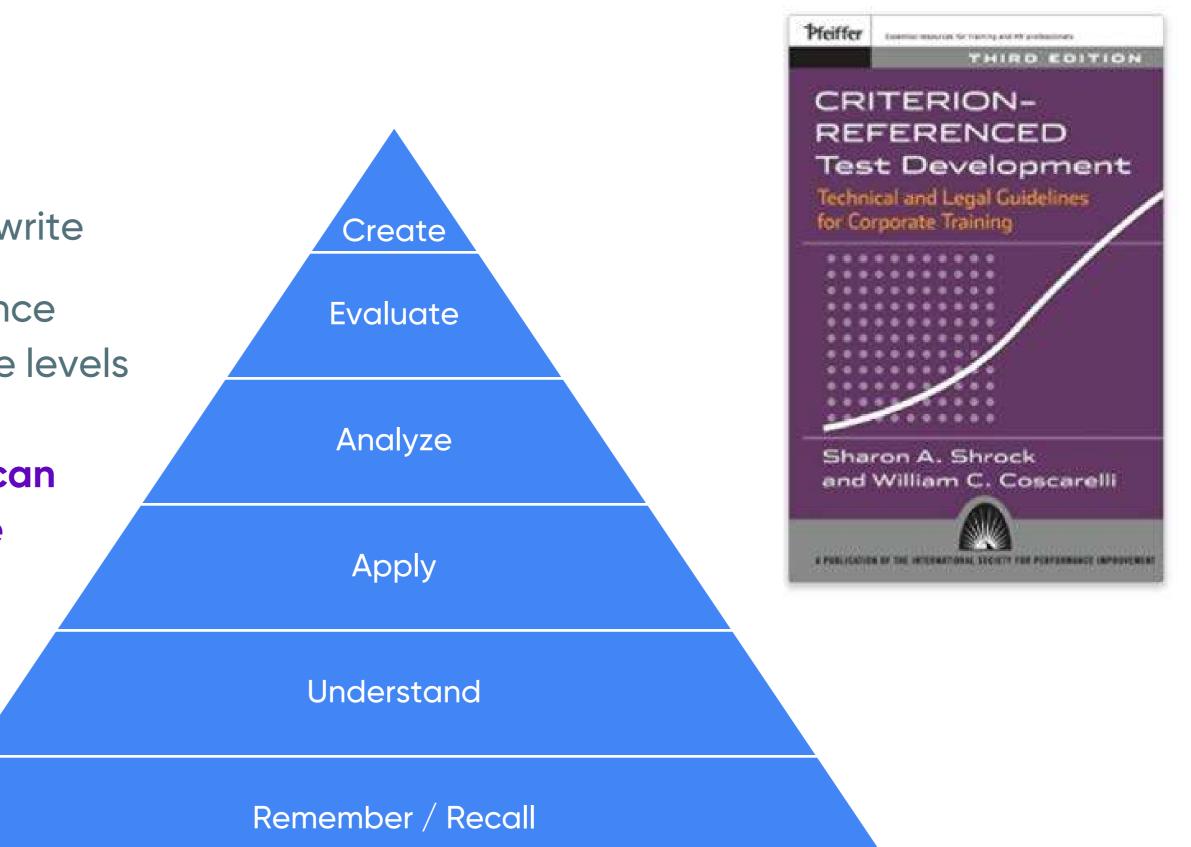
Advice from the experts

William Coscarelli & Sharon Shrock (in 'Criterion-Referenced Test Development')

- Knowledge (recall) level items are the easiest to write
- Developing tests that truly reflect OJT performance requires writing items focused on higher cognitive levels

In general, the single most useful improvement you can make in writing test items is to write them above the memorization level.





Some approaches to assessing higher level skills

Writing conventional questions to assess beyond recall

- Use multiple choice, matching, ranking and other question types

Observational Assessment / Performance Testing

- An observer watches someone performing a practical task
- Answers questions about performance on a mobile device

Situational Judgement Assessments

- Evaluate judgement of what course of action is taken



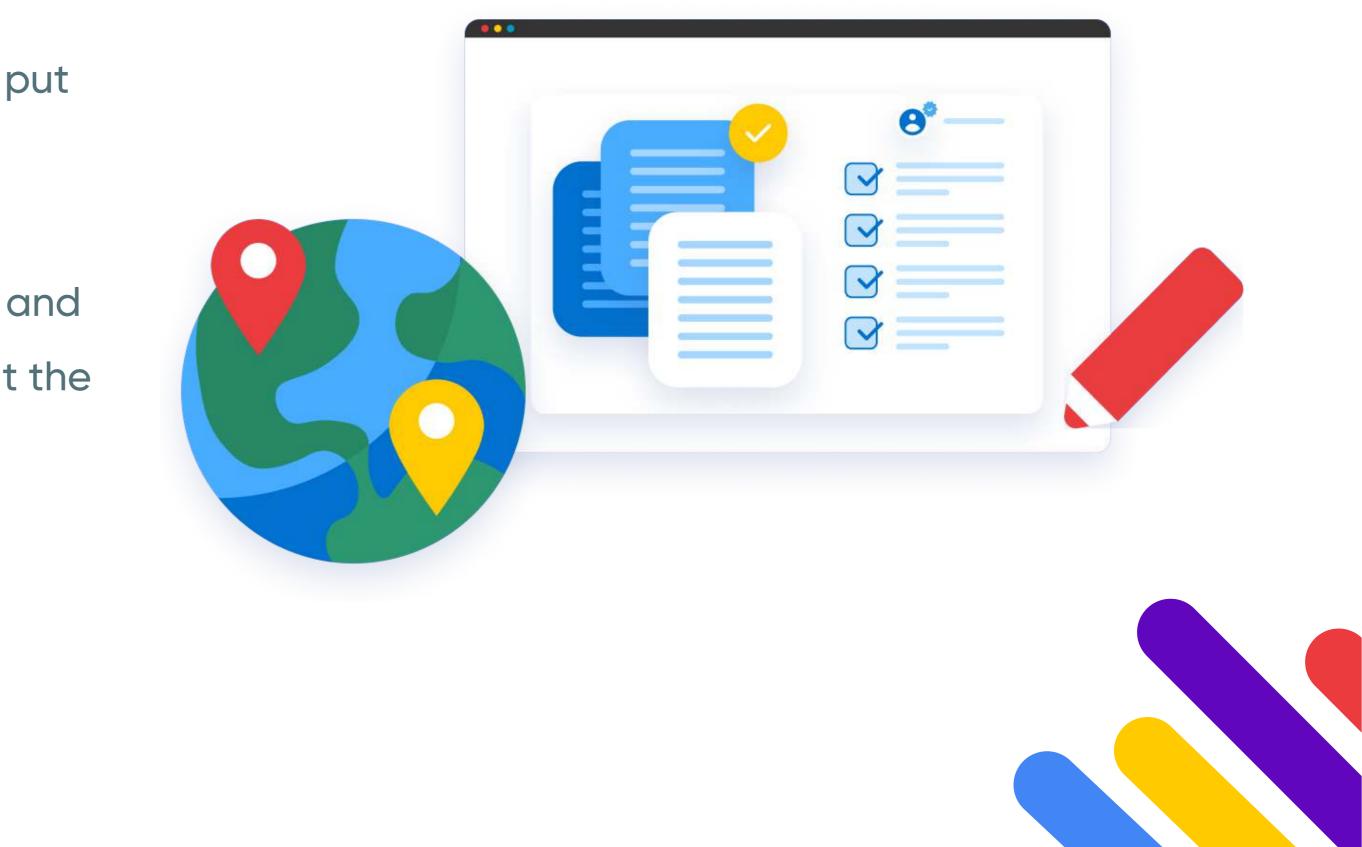
• Techniques eliciting higher level cognition required to get the right answer

• Frame questions based on a dilemma that could be encountered in workplace

Writing conventional questions to assess beyond recall

- Questions that require participant to consider multiple facts
- Scenario or rich context (e.g. video) in question to put participants closer to the work environment
- Include stimulus that requires analysis (e.g. charts and tables; images; etc.) for the participant to arrive at the correct answer





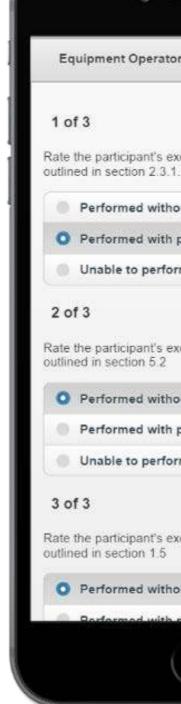


Observational / Performance Assessment

Observer "rates" the participant

Rate the participant's execution of operator tasks outlined in section 2.3.1.

- Performed without prompting Ο
- Performed with prompting Ο
- Unable to perform 0





Equipment Operator Observational Assess.

Rate the participant's execution of operator tasks

Performed without prompting

Performed with prompting

Unable to perform

Rate the participant's execution of operator tasks

O Performed without prompting

Performed with prompting

Unable to perform

Rate the participant's execution of operator tasks

Performed without prompting

Item solicit ratings

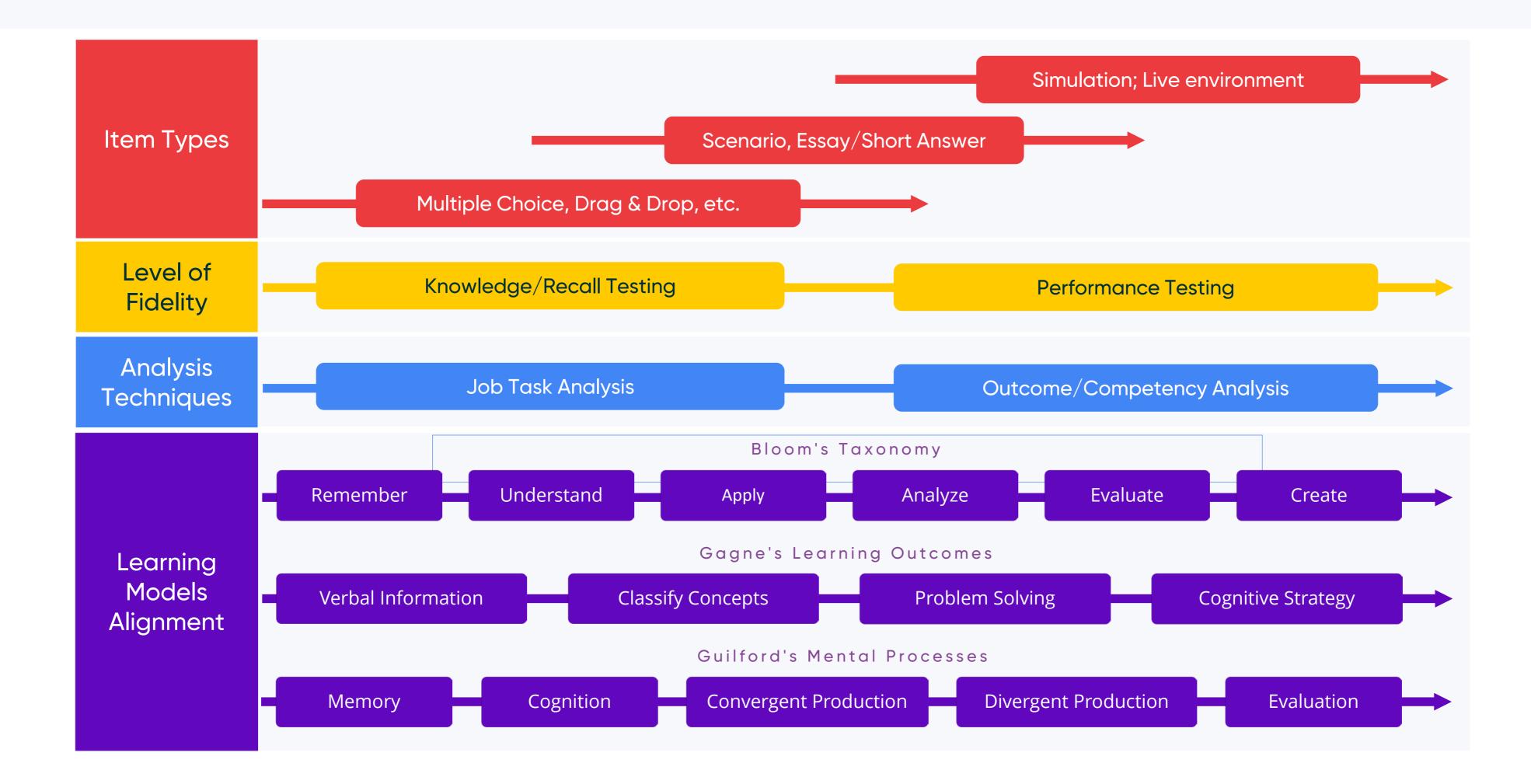
- Performance of task(s)
- Demonstration of appropriate knowledge, skills, abilities, behaviors

Getting objective ratings

- Enforces consistent rating scales & scoring rubrics
- Streamlines and centralizes collection of input from raters



Performance Testing & Development Taxonomy





Investing in sound assessment development processes and high-quality items can offer dividends Case study



Benefits of "Testing Out" of training

Management Report Example

Number of people

Time required for ALL to complete training if no testing (2 hours each)

Time for ALL to take test (20 mins / test)

25% pass test and skip training; Remaining 75% do required training

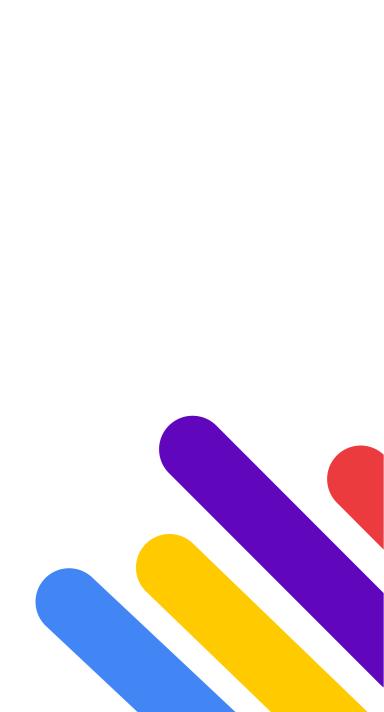
Total potential billable hours

Average cost per billable hour

Total costs in billable hours



	Course Only
	1,000
0	2,000 hours
	2,000
	\$100
	\$200,000



Benefits of "Testing Out" of training

Management Report Example

Number of people

Time required for ALL to complete training if no testing (2 hours each)

Time for ALL to take test (20 mins / test)

25% pass test and skip training; Remaining 75% do required training

Total potential billable hours

Average cost per billable hour

Total costs in billable hours



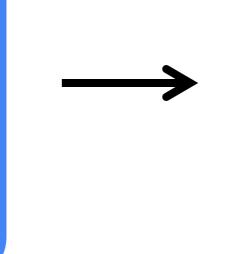
	Course Only	Test & Course
	1,000	1,000
0	2,000 hours	
		333 hours
		1,500 hours
	2,000	1,833
	\$100	\$100
	\$200,000	\$183,300

8% reduction in billable hours lost saving \$16,700



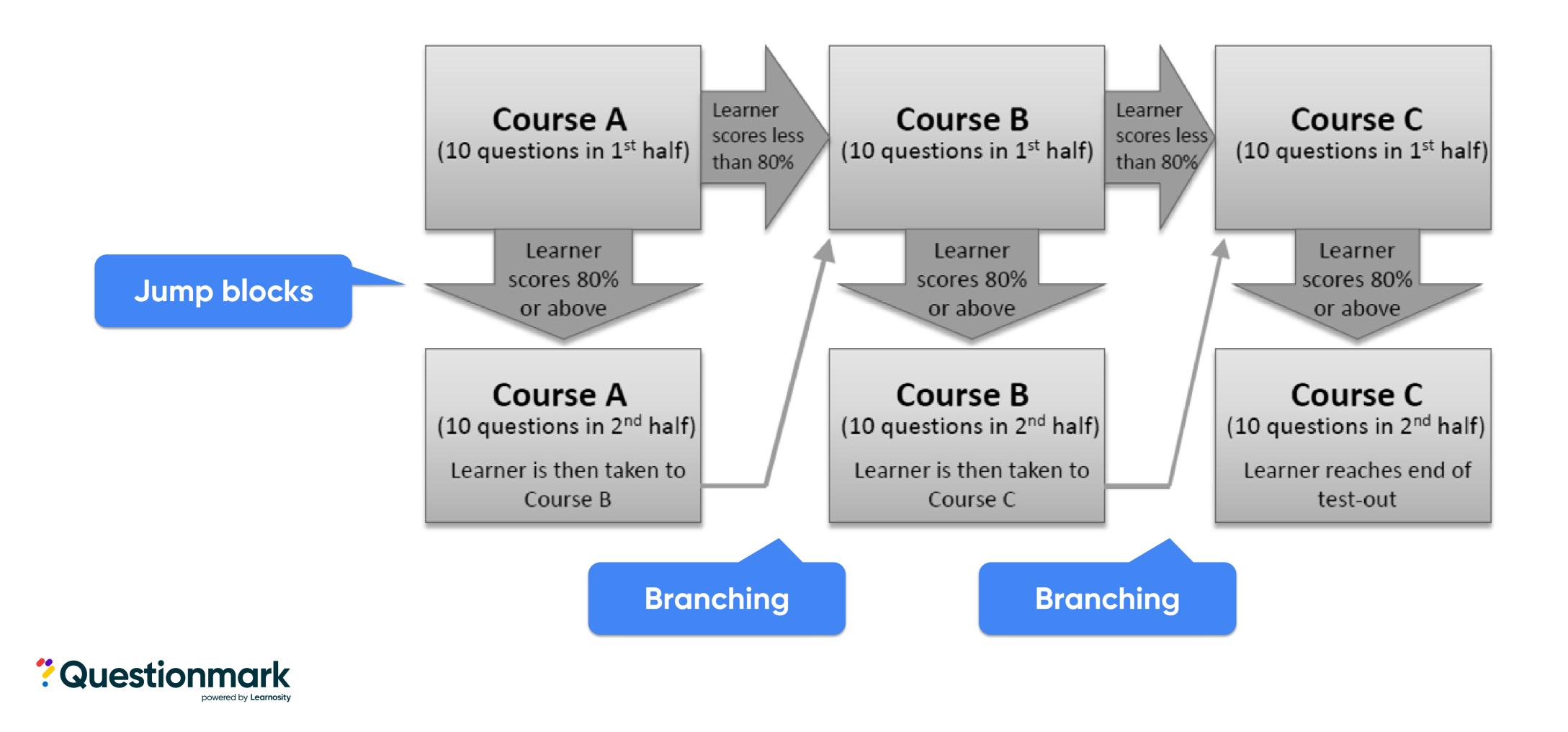
Course A (25 Questions)

Course B (28 Questions)



Course C (21 Questions)

Getting valid results in less time



Lessons learned

Item analysis to:

- Quickly spot/flag and weed out problematic test questions
- Demonstrates reliability of item/assessment results
- Potential for shorter tests/exams

Branching logic within longer tests/exams

Up-front investment in higher quality items/assessments reduce costs

- "Test out" of required training
- Tests are shorter / less time away (means increase in billable hours)





Pop quiz!

Which of the following is the most appropriate passing score for a knowledge test?	A. 70%
	B. 80%
	C. 90%
	D. 1009
	E. It de



A.	70%
B.	80%
C.	90%
D.	100%
E.	It depends on how difficult the questions are



Setting Defensible Pass/Fail Scores



Setting Defensible Cut Scores

Risky practice:

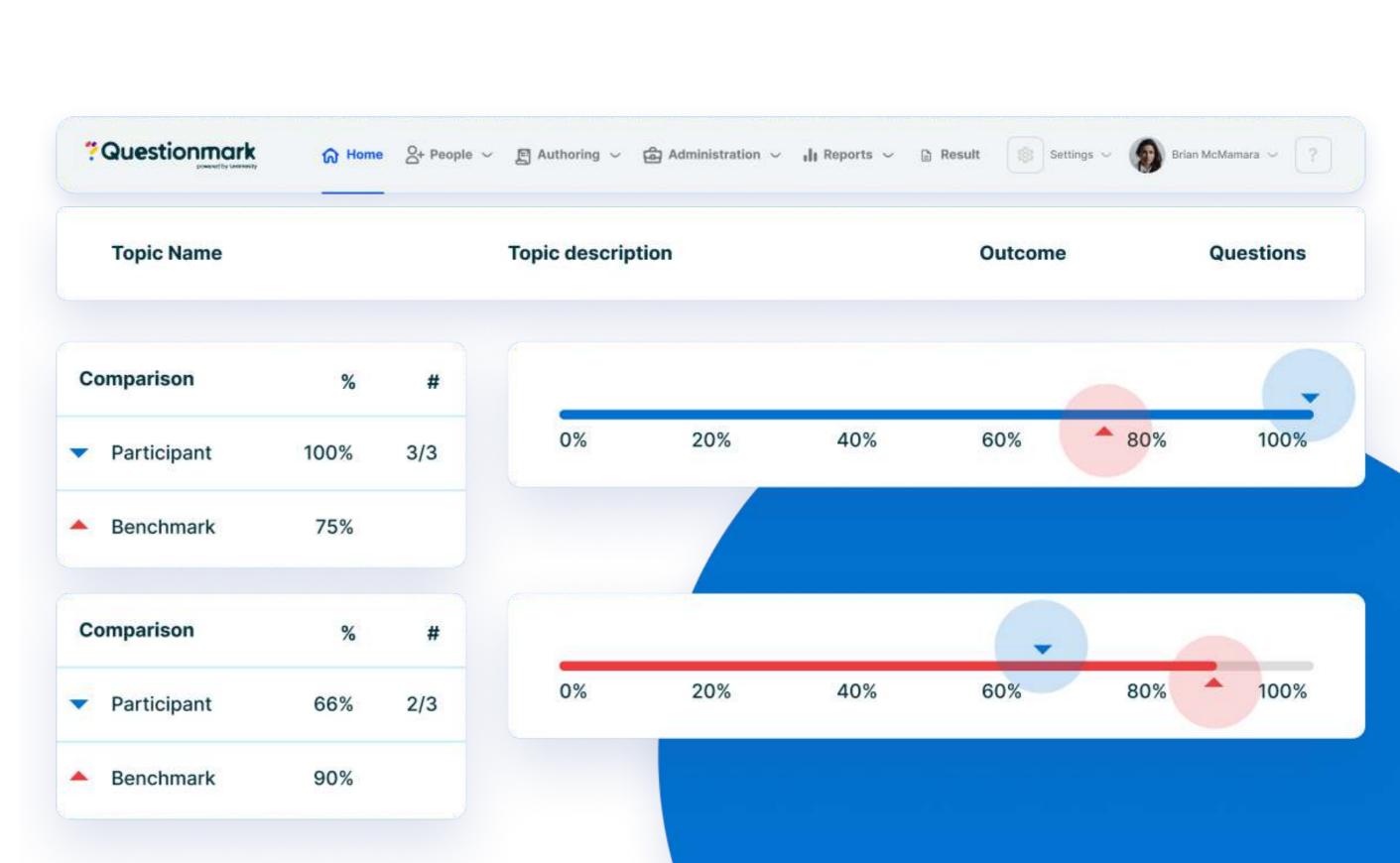
- Guess
- Roll dice
- Pick a number out of a hat

Good Practice:

- Set pass/cut score to reflect minimally acceptable competence
- Passing test demonstrates competence







One route is the Angoff Method

- Based on this question:
 - What is % chance a marginal test-taker will get question right?
- How it works
 - Poll SMEs
 - Consider marginal test-takers and probability of getting specific questions right (0-100%)
 - Average out the chances to work out the cut score



Why use this method?

- Defensible
- Easy to use and implement
- Widely accepted



Angoff Method example

What is the % chance that a borderline test-taker will get question right?

	SME A	SME B	SME C	Total
Q1	75%	75%	75%	75.00%
Q2	70%	80%	80%	76.67%
Q3	65%	75%	70%	70.00%
Q4	60%	85%	90%	78.33%
Q5	80%	80%	85%	81.67%
Q6	80%	80%	80%	80.00%
Q7	75%	80%	75%	76.67%
Q8	65%	90%	65%	73.33%
Q	75%	80%	75%	76.67%
Q50	65%	85%	65%	71.67%
Totals	71%	81%	76%	76%



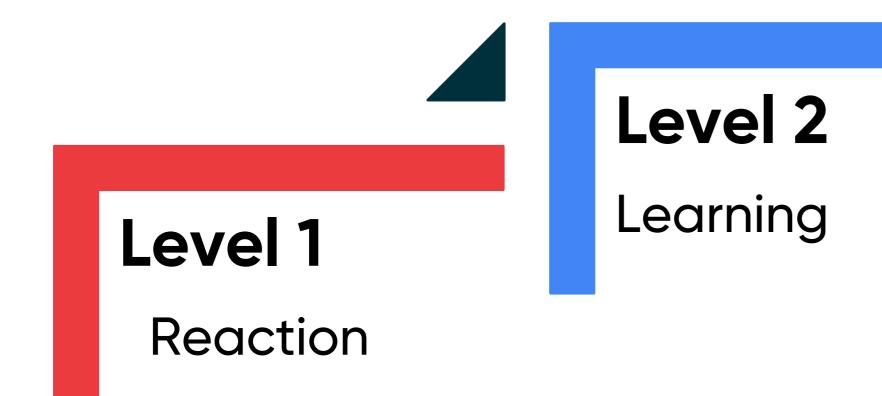




Assessments and Evaluating Learning



The Kirkpatrick Model







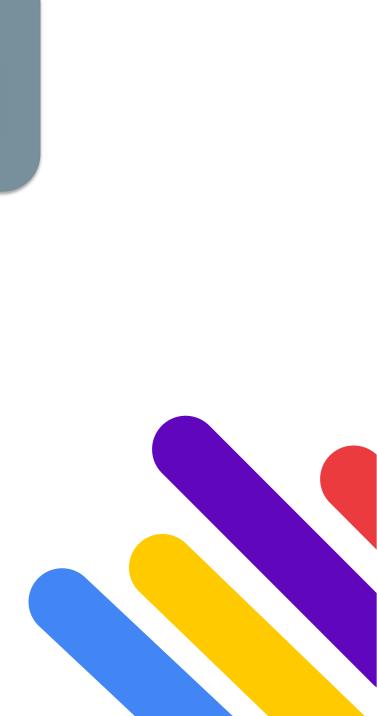


The Learning-Transfer Evaluation Model

- Evolving model from Will Thalheimer



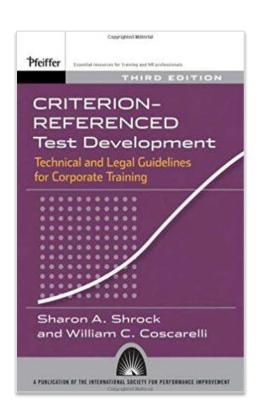




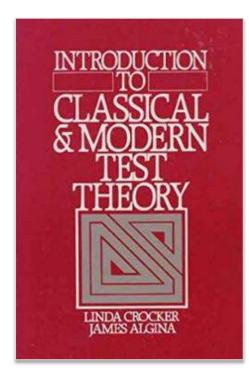






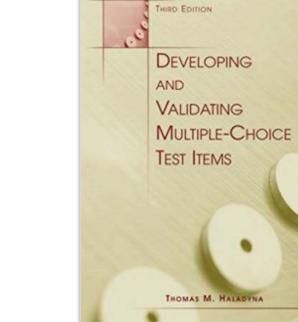


Criterion-Referenced Test Development: Technical and Legal Guidelines for Corporate Training Sharon Shrock, William Coscarelli



Introduction to Classical and Modern Test Theory Linda Crocker, James Algina





Developing and Validating Multiple-Choice Test Items Thomas Haladyna



www.onetonline.org

- Database of standardized and occupation-specific descriptors occupations
- Example profile:
 - <u>onetonline.org/link/summary/13-1031.00</u>



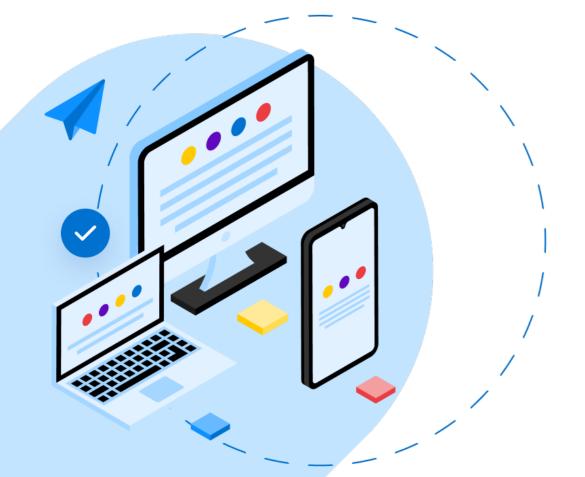
Help Find Occupations	Advanced Search	Crosswalks		Share	O*NET Sites
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sks Technology Skills Tools Used K Mated Occupations Wages & Employme	Knowledge Skills Abilities ent Job Openings Additional	Work Activities Detailed Work Activities Work	Context Job Zone Credentials]	interests Work Sty	rles Work Values
asks					
5 of 28 displayed					
O Examine claims forms and	other records to determin	ne insurance coverage			
• Examine claims forms and • Analyze information gathered		•			
• Analyze information gathered	ed by investigation and re	eport findings and recommendations.	ue to determine the extent of li	ability.	
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 Analyze information gathere Review police reports, med Investigate and assess dam 	ed by investigation and re lical treatment records, m nage to property and crea	eport findings and recommendations. nedical bills, or physical property damag ate or review property damage estimate	2S.	ability.	
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