Chapter 2 Foundations of Recruitment and Selection I: Reliability and Validity

N

MUL	IULTIPLE CHOICE	
1.	 What is the first step in an organization's selection process? a. reviewing the candidate pool for the job position b. identifying knowledge, skills, abilities, and other attributes for c. acquiring job analysis information for the job position d. developing performance indicators and job dimension for the 	
	ANS: B PTS: 1 REF: 29 BLM: Remember	OBJ: 1
2.	2. Which of the following statements applies to a test by the UK Dep (DWP),as described in the "Sham Psychometric Test" controversy a. The test was appropriate because it had a valid goal: to help pob. The test was appropriate because it came from a larger test that c. The test was inappropriate because it showed strengths but no d. The test was inappropriate because it had not been validated for	r? eople find jobs. thad been validated by DWP. t weaknesses.
	ANS:D PTS: 1 REF: 28 BLM: Higher Order	OBJ: 5
3.	 3. For what is job analysis information used? a. to ensure reliability throughout the selection process b. to identify both the performance domain and the knowledge, sattributes linked to job performance c. to ensure the selection process is fair, equitable, and unbiased d. to ensure utility throughout the recruitment and selection process 	
	ANS: B PTS: 1 REF: 30 BLM: Higher Order	OBJ: 1
4.	4. In the "Mystery Diners" article, what was the main selection mista a. not systematically analyzing the requirements of the job b. failing to appreciate the importance of experience when judgin c. overemphasizing the physical appearance of candidates d. considering customer preferences for pretty young wait staff	,
	ANS: A PTS: 1 REF: 31–32 BLM: Higher Order	OBJ: 2
5.	 5. What is thebest way for HR professionals to make sure that their set by courts and tribunals? a. Completely eliminating such factors as age, gender, and disabit candidates b. thoroughly analyzing required KSAO's for each position to be c. avoiding making hiring decisions d. using valid and reliable science-based methods when choosing 	lity when considering
	ANS: B PTS: 1 REF: 30	OBJ: 5

6.	The Toronto Police Servicerequires candidates to show that they are Canadian citizen or permanent
	residents, are at least 18 years of age, and have a valid driver's licenceand no record of criminal
	convictions. What would these requirements be classified as?
	a. KSAO's
	b. screening criteria

c. performance dimensions

d. reliable qualifications

ANS: B PTS: 1 **REF: 33** OBJ: 1

BLM: Higher Order

BLM: Higher Order

- 7. Which of the following is NOT a selection criterion for the Toronto Police Service?
 - a. The applicant must meet the vision standard for the TorontoPolice Service.
 - b. The applicant must have successfully completed four years of secondary school education.
 - c. The applicant must be a Canadian citizen or landed immigrant.
 - d. The applicant must not have a criminal record for which a pardon has not been granted.

ANS: B PTS: 1 **REF: 33** OBJ: 1

BLM: Higher Order

- 8. Which of the following is NOT a reason to use practice-based selection approaches?
 - a. fit with organizational culture
 - b. comfort with the process
 - c. consistency of the process
 - d. flexibility and speed

ANS: C PTS: 1 **REF: 35** OBJ: 3

BLM: Remember

- 9. What is a potential outcome of a science-based selection process?
 - a. a significant number of qualified applicants
 - b. a defensible system with effective employees
 - c. a flexible, quick process that fits the organization's culture
 - d. a process that is comfortable and flexible for all employees

ANS: B PTS: 1 **REF: 35** OBJ: 4

BLM: Remember

- 10. What is a potential outcome of a practice-based selection process?
 - a. the effective use of structured and consistent procedures
 - b. a defensible system with effective employees
 - c. increased productivity and competitiveness
 - d. human rights litigation and marginal employees

ANS: D PTS: 1 **REF: 35** OBJ: 4

BLM: Remember

- 11. What is a defining characteristic of a practice-based selection process?
 - a. It is defensible.
 - b. It is intuitive.
 - c. It is system-wide.

	ANS: B BLM: Remember	PTS: 1	REF: 35	OBJ: 4	
12.	What is a defining cha. It is flexible. b. It is intuitive. c. It is rational. d. It is subjective.	naracteristic of a	science-based selection	process?	
	ANS: C BLM: Remember	PTS: 1	REF: 35	OBJ: 4	
13.				s in measurement, or inferent group membership charact	
	ANS: C BLM: Remember	PTS: 1	REF: 55	OBJ: 2	
14.	b. gathering feedbac. demonstrating th	rmance indicato ck from the indi at hiring decisio		n system have utility	ess
	ANS: C BLM: Remember	PTS: 1	REF: 30	OBJ: 1	
15.	Which of the following a. a variance b. a construct c. a concept d. a validation	ng termsrefers to	o relationships between	observations?	
	ANS: B BLM: Remember	PTS: 1	REF: 36	OBJ: 2	
16.	a. Reliability is anb. Reliability is thec. Reliability is the	indication of the degree that obse amount of syste	tement about reliability stability of measurement acreed scores are free fromic errors relative to the set of measurements or	nts. m random errors. eir true score.	
	ANS: C BLM: Remember	PTS: 1	REF:37	OBJ: 2	

d. It is structured.

17. What concept is defined as the degree to which observed scores are free from random measurement

	a. validity b. fairness c. error score d. reliability					
	ANS: D BLM: Remember	PTS: 1	REF:	37	OBJ:	2
18.	Which of the follow observed score on a a. measurement er b. standard deviati c. lack of standard d. test and retest	ny particular m ror on				between an individual's core?
	ANS: A BLM: Remember	PTS: 1	REF:	40	OBJ:	3
19.	d. the proportion of measured characteristics.	of consistency is cteristic of error in the e of measurement naracteristic of variance in the cteristic	n the true scores rror scores attrib t error in the obs ne observed scor	s attributed to true difference of the served scores at the served score	fference tributed	es on the measured I to true differences on Ifferences on the
	ANS: D BLM: Remember	PTS: 1	REF:	40	OBJ:	3
20.	An HRM used the idegroup of people on a. test and retest b. alternate forms c. internal consisted. inter-rater reliables	different occass	_			haracteristic over the same bility was used?
	ANS: A BLM: Higher Orde	PTS: 1 r	REF:	43	OBJ:	4
21.	Which of the follow a. A test can be re b. Construct validi c. Bias refers to th d. A test can be va	liable but not v ty is another to e reaction of to	alid. erm for content v est takers to a pa	•		
	ANS: A BLM: Higher Orde	PTS: 1 r	REF:	52	OBJ:	4

22.	following is NOT a st a. A scoring scheme b. Tasks of the targe c. Job experts indep		npling s selection ed by jost ability o	trategy? on assessments. ob experts. f each task.		uccess.
	ANS: C BLM: Higher Order	PTS: 1	REF:	50	OBJ:	4
23.	In their mid-1970s residea that a validity coa. validity generalizes. meta-analysis c. range restriction d. attenuation	efficient isspecific to				Hunter use to challenge the sured?
	ANS: B BLM: Higher Order	PTS: 1	REF:	50	OBJ:	3
24.	What concept is defin measurement error of a. sampling error b. regression c. attenuation d. differential predict	the predictor, the crit			the valid	dity coefficient associated with
	ANS: C BLM: Remember	PTS: 1	REF:	52	OBJ:	4
25.	Which of the following subgroups? a. subgroup different b. subgroup bias c. subgroup norming d. subgroup fairness	ntial	the use o	of different sele	ection ru	ules for different identifiable
	ANS: C BLM: Remember	PTS: 1	REF:	56	OBJ:	5
26.	b. Wonderlic Person	cal Comprehension te nnel test rvice physical abilitie	est	ng biased in fav	our of 1	males?
	ANS: A BLM: Higher Order	PTS: 1	REF:	56	OBJ:	5

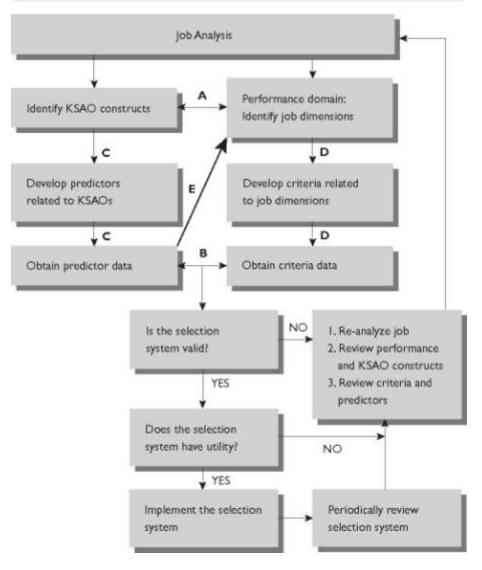
27.	a. lack of standardizationb. temporary individuance. seasonalityd. chance	on	egory of	t factors that af	fect rel	iability?
	ANS: C PT BLM: Remember	ΓS: 1	REF:	41	OBJ:	3
28.	To estimate reliability, it Which of the following i a. internal consistency b. test and retest c. intra-rater agreemen d. alternate forms	is NOT such a strat	•	tegy to develop	approx	ximations of parallel measures.
	ANS: C PT BLM: Remember	ΓS: 1	REF:	43	OBJ:	3
29.	9. What could an employer do to establish concurrent validity? a. compare test results with performance ratings of existing employees b. compare test results with employee performance ratings after one year on the job c. compare test results with results of previously validated test d. have experts determine whether the test accurately measures the current content of the job					
	ANS: A PT BLM: Higher Order	ΓS: 1	REF:	44	OBJ:	4
30.	What concept is defined a. subgroup prediction b. differential prediction c. systematic prediction d. performance prediction	on n	erage p	erformance sco	ore of a	subgroup?
	ANS: B PT BLM: Remember	ΓS: 1	REF:	56	OBJ:	5
31.	Which of the following is a. standardized test adrub. test reliability c. validity evidence d. careful test development.	ministration	quality	of a testing pro	ocedure	?
	ANS: C PT BLM: Remember	ΓS: 1	REF:	53	OBJ:	3

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32.	What two strategies are typicalmethods that aresearcher uses to acquire evidence for test-criterion relationships? a. criterion-related and correlation b. inference and intuition c. differential and selective d. predictive and concurrent					
	ANS: D PTS: 1 REF: 44 OBJ: 4 BLM: Remember					
33.	The head of HR at Megatherium Industries wants to use a cognitive ability test for applicants to a management position. If she wants to follow science-based methods in selection, but is unwilling to run a validation study, what approach should she use to test validation? a. use of best practices b. comparison oftest results of high-performing and low-performing employees c. comparison oftest questions with job content d. use of validity generalization					
	ANS: D PTS: 1 REF: 49 OBJ: 4 BLM: Higher Order					
 34. Which of the following statements is true? a. Validity concepts in selection apply only to test scores. b. U.S. Labor Department guidelines suggest that tests with validity coefficients above .35 as very beneficial. c. U.S. Labor Department guidelines suggest that only tests with reliability coefficients above .55 should be used in selection. d. Employment tests have been shown to have no adverse impact on applicants. 						
	ANS: B PTS: 1 REF: 53 OBJ: 4 BLM: Higher Order					

FIGURE 2.1

Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach



- 35. Refer to Figure 2.1. What occurs if the selection system does not have utility?
 - a. The job should be reanalyzed.
 - b. The selection system should be reviewed.
 - c. The selection system should be implemented.
 - d. The selection system should be validated.

ANS: A PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

36.	Refer to Figure 2.1.	. What relationshi	p does line A	A represent?

- a. the relationship among job analysis, KSAOs, and performance management
- b. the relationship between the performance domain and the KSAOs that contribute to the job performance
- c. the relationship between the KSAOs and performance competencies
- d. the relationship among job analysis, KSAOs, and performance criteria and dimensions

ANS: B PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

37. Refer to Figure 2.1. What process does line D represent?

- a. validating the job analysis and identifying performance criteria
- b. clarifying the performance domain and utilizing the knowledge, skills, abilities, and other attributes' constructs
- c. defining the performance domain and developing related criterion measurements
- d. validating the selection system

ANS: C PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

38. Refer to Figure 2.1. What process does line C represent?

- a. validating the job analysis, knowledge, skills, abilities, and other attributes, and performance domain
- b. utilizing the knowledge, skills, abilities, and other attributes' constructs to clarify the performance dimensions
- c. translating the knowledge, skills, abilities, and other attributes' constructs into valid measurable predictors
- d. establishing criterion-related validity

ANS: C PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

39. Refer to Figure 2.4. What process does line E represent?

- a. validating the job analysis, knowledge, skills, abilities, and other attributes and performance
- b. predicting which applicants will be successful in their position
- c. utilizing the knowledge, skills, abilities, and other attributes constructs to clarify the performance dimensions
- d. translating the knowledge, skills, abilities, and other attributes constructs into valid measurable predictors

ANS: B PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

TRUE/FALSE

1.	abilities, and other attributes to perform the job being filled.						
	ANS: T	PTS:	1	REF:	32	OBJ:	1
2.	The goal of selection job.	is to id	entify job cand	idates v	who have those	attribu	tes required for success on the
	ANS: T	PTS:	1	REF:	32	OBJ:	1
3.	Employers must kno selection processes a		•	sional s	tandards in ord	er to in	crease the likelihood that their
	ANS: T	PTS:	1	REF:	34	OBJ:	1
4.	If an employer does ran applicant that will				•	, it can	still make a correct guess about
	ANS: T	PTS:	1	REF:	34	OBJ:	3
5.	An employer's employer	oyment	decisions must	be rati	onal and intuiti	ve.	
	ANS: F	PTS:	1	REF:	35	OBJ:	1
6.	An employer's recru the knowledge, skills			-	•		re an applicant who possesses rm the job.
	ANS: T	PTS:	1	REF:	32	OBJ:	1
7.	Hiring decisions must reliability and validit		fensible; they n	nust me	et legal require	ments a	and professional standards of
	ANS: T	PTS:	1	REF:	35	OBJ:	3
8.	The HR manager foo	cuses on	one variable, ı	sually	job performanc	e, in th	e selection process.
	ANS: F	PTS:	1	REF:	30	OBJ:	4
9.	The reliability coeffi	cient is	the degree that	true sc	ores correlate v	vith one	e another.
	ANS: F	PTS:	1	REF:	39	OBJ:	2
10.	Measurement error c score on any particul						een an individual's observed
	ANS: T	PTS:	1	REF:	40	OBJ:	3
11.	When candidates are	asked o	different questi	ons froi	m one interviev	v to the	other, validity is reduced.

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OBJ: 4

ANS: F PTS: 1 REF: 41

12. Validity is the degree to which observed scores are free from random measurement errors.

ANS: F PTS: 1 REF: 45 OBJ: 2

13. The principle that every test taker should be assessed in an equitable manner is known as equity.

ANS: F PTS: 1 REF: 56 OBJ: 5

14. Issues of fairness need to be determined statistically.

ANS: F PTS: 1 REF: 56 OBJ: 5

15. Achieving fairness often requires compromise between conflicting interests.

ANS: T PTS: 1 REF: 56 OBJ: 5

SHORT ANSWER

1. How does science affect the selection process?

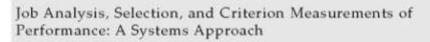
ANS:

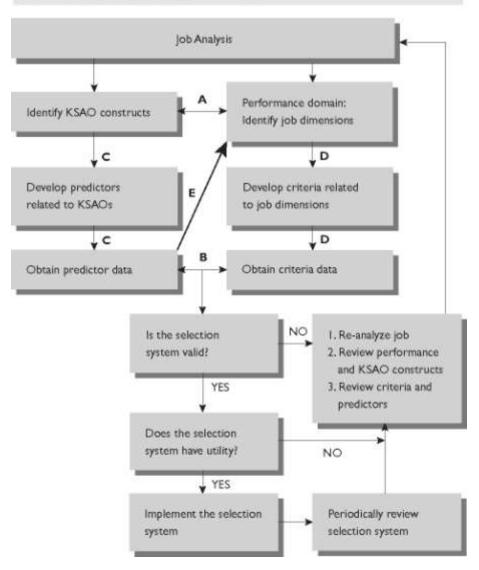
To remove the guessing in selection, a selection system must be built on sound empirical support, be reliable and valid, and operate within a legal context.

- Hiring decisions must be defensible; they must meet legal requirements and professional standards of reliability and validity.
- The measures used to make the hiring decisions must be stable and provide job-related information.
- Employment decisions must be valid and meet legal requirements.
- Refer to Figure 2.1, Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach, on page 30, and Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35.

PTS: 1 REF: 30,35 OBJ: 1

FIGURE 2.1





2. Describe the process and components of selection model Figure 2.1.

ANS:

The job analysis information is used to identify the performance domain and also the knowledge, skills, abilities, and other attributes linked to job performance. Line A represents the relationship between the performance domain and the knowledge, skills, abilities, and other attributes that contribute to the performance of job tasks and behaviours. Line D represents the process of defining the performance domain and developing related criterion measurements. Line C represents the process of translating the knowledge, skills, abilities, and other attributes' constructs into valid, measurable predictors. Line E represents predicting which applicants will be successful in their position. The final step in the selection process is to demonstrate that hiring decisions are based on the selection system's utility.

PTS: 1 REF: 30 OBJ: 1

3. Scribe Engineering, a medium-sized information technology company, is having difficulties recruiting and retaining several of its administrative assistant positions. Traditionally, Scribe has used a practice-based selection process. As the new HRM, what would you suggest to the CEO?

ANS:

Scribe Engineering should undertake a job analysis of an administrative assistant to determine the essential components of office administration work and the level of performance required for success (performance domain and knowledge, skills, abilities, and other attributes) and then create a series of tests to measure those components among administrative assistants.

Refer to Figure 2.1, Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach, on page 30; Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35; and Figure 2.4, Validation Strategies, on page 46, whichemphasizes the importance of job analysis, selection, and criterion measurements of performance, systems approach, and science-based selection.

PTS: 1 REF: 30,35,46 OBJ: 1–4

4. Choose a specific job you are familiar with and choose one characteristic that you think is critical to successfully performing that job. If you were the HRM hiring for this position, what would you consider in measuring the characteristic and job performance to ensure reliability and validity?

ANS:

Refer to the short answer question and answer (above) on science-based selection, reliability, and validity. Figure 2.1, Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach, on page 30; Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35; and Recruitment and Selection Notebook 2.2, Validity, which emphasizes the importance of job analysis, selection, and criterion measurements of performance, systems approach, and science-based selection. Refer to the example of the TorontoPolice Service, on page 33.

PTS: 1 REF: 30,32,33,35,44,50 OBJ: 1–4

5. Since TS Inc. is a small, growing aviation company, the CEO makes the hiring decisions based on his years of experience as well as his gut feeling. He started the business 10 years ago with 10 employees and the company has grown to over 30 employees. The CEO has asked you, the HRM, to explain some of the differences between the use of his practice-based selection approach and an empirical-based process. Also explain what challenges you anticipate he would face in using validation techniques.

ANS:

Validation studies require relatively large number of hires. The challenge for TS Inc. is that it does not hire many people.

Refer to Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35, and Recruitment and Selection Notebook 2.2, Validity, on page 50).

PTS: 1 REF: 35, 50 OBJ: 1

6. What is reliability? Identify three factors affecting reliability.

ANS:

Reliability is the degree to which observed scores are free from random measurement errors. Reliability is an indication of the stability or dependability of a set of measurements over repeated applications of the measurement procedure. Reliability refers to the consistency of a set of measurements when a testing procedure is repeated on a population of individuals or groups. In terms of testing, it is expected that a test will provide approximately the same information each time it is given to that person.

Factors Affecting Reliability

- Temporary individual characteristics: if a job candidate is quite ill or anxious, the know-how score may be affected and have a greater error component.
- Lack of standardization: changing the conditions under which measurements are made introduces error in the measurement process. For example, reliability is decreased if different candidates are asked different questions during interviews. If the environment varies in which candidates for the same job are interviewed, it will affect reliability.
- Chance: factors unique to a specific procedure introduce error into the set of measurements. If an employer has interviewed someone previously, that applicant will have a better chance of performing well in an interview with that employer again.

PTS: 1 REF: 37–44 OBJ: 3

7. What is validity in selection? Describe four validation strategies.

ANS:

Validity is the degree to which accumulated evidence and theory support specific interpretations of test scores in the context of the test's proposed use.

- Evidence based on test content: this type of validity evidence comes from analyzing the relationship between a test's content and the construct the test is intended to measure. Evidence of validity based on test content can consist of either empirical or logical analyses of how well the contents of the test, and interpretation of the test scores, represent the construct.
- Evidence based on relations to other variables: this type of evidence is based on an analysis of the relationship between test scores and other variables that are external to the test.
- Predictive evidence for test-criterion relationships: *predictive* evidence is obtained through research designs that establish the correlation between predictor scores (know-how scores) obtained before an applicant is hired and criteria (performance scores) obtained at a later time, usually after an applicant is employed.
- Concurrent evidence for test-criterion relationships: *concurrent* evidence is obtained through research designs that establish a correlation between predictor and criteria scores from information that is collected at approximately the same time from a specific group of workers.

PTS: 1 REF: 45–52 OBJ: 4

8. What is bias in selection?

ANS:

Bias refers to systematic errors in measurement, or inferences made from those measurements, that are related to different identifiable group membership characteristics such as age, sex, or race.

PTS: 1 REF: 55,56 OBJ: 5

9. What is fairness? Why is it an important concept in selection?

ANS:

Fairness in measurement refers to the value judgments people make about the decisions or outcomes that are based on those measurements. Fairness is the principle that every test taker should be assessed in an equitable manner. Issues of fairness cannot be determined statistically or empirically. Fairness involves perceptions. It is important from a business, ethical, and legal standpoints to have tests that are scientifically sound; it is also important to have procedures that are perceived as fair. From a business perspective, the adverse reactions to selection tests and procedures may impair the ability of the organization to recruit and hire the best applicants.

PTS: 1 REF: 56, 58 OBJ: 5