Waterford 3 Initial Examination
Oct 2000
Chief Examiner: P. GAGE
Reviewer: R. LANTZ

INITIAL EXAMINATION DESK GUIDE APPENDIX E - REGION IV OPERATING TEST JOB PERFORMANCE MEASURE QUALITY REVIEW MATRIX										
JPM#	1. Dyn (D/S)	2. LOD (1-5)	3. Attributes					4. Job Content Errors		5. U/E/S	6. Explanation (See below for instructions)
			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Minutia		
A.2	S	2			2					S	
A.3	S	3			3					S	
A.4	S	4			10					S	check critical nature of steps leading to PAR
1	D	3			6					S	
2	D	3			3					S	step 3 critical?
3	D	4			14					S	
4	D	3			3					S	
5	D	3			6					S	
6	D	3			16					S	
7	D	3			11					S	
8	S	2			4					S	
9	S	2			5					S	
10	S	2			6					S	

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. | 6. |
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	U/E/S	Explanation

Instructions

[Refer to Appendix B for additional information regarding each of the following concepts.]

1.   Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.

2.   Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 - 4 range are acceptable).

3.   Check the appropriate box if a psychometric flaw is identified:

·   The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
·   The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
·   The answer choices are a collection of unrelated true/false statements.
·   More than one distractor is not credible.
·   One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).

4.   Check the appropriate box if a job content error is identified:

·   The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
·   The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
·   The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
·   The question requires reverse logic or application compared to the job requirements.

5.   Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?

6.   For any "U" ratings, at a minimum, explain how the Appendix B psychometric attributes are not being met.

FACILITY: WATERFORD 3
EXAM DATE: OCT 2000
REVIEWER: RE LANTZ   CHIEF EXAMINER: P GAGE

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward		
001	F	3										S	Can't verify answer by ref
002	H	3										S	How does RAB verify rods held by upper gripper?
003	F	2										S	
004	H	3										S	
005	F	4		✔								S	modify stem to say 3 min elapsed, isln for RCP 1A handswitch malfunction
006	F	2										S	(KAOK)
007	H	3										S	(KAOK)
008	F	3										S	(KAOK)
009	H	4										S	
010	H	3										S	(KAOK)
011	F	3										S	(KAOK)
012	H	3										S	(KAOK)
013	F	3							✔			S	req'd from mem?
014	H	3										S	Can't verify answer by ref
015	H	3		✔								U	(KAOK) Ref gives answer/ better to give conditions, ask req'd actions
016	F	4		✔								E	reword Q.. SG1 ADV fails _____ and can be operated in _____.
017	F	4										S	
018	F	2										S	(KAOK) may consider adding "according to OP-007-001, TITLE, ...
019	H	3										S	
020	F	2				✔						E	may be better to ask - Which is incorrect?
021	F	2										S	(KAOK)
022	F	2										S	
023	H	2	✔			✔						U	lowest subcooling is the answer, look at adding loop delta T to columns? change Qto which condition suppports NC flow?
024	F	2										S	
025	H	3										S	

ES-401　　　　　　　　　　　　　　　　　　　　　　2　　　　　　　　　　　　　　　　　　　　Form ES-401-9

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward		
026	H	3										S	
027	H	2										S	(KAOK)
028	H	2	✔									U	(KAOK) stem edit, missing NOT?
029	H	2		✔								E	ATT 3 not needed
030	H	2				✔						E	revise answer to observed conditions
031	H	2					✔					S	is B incorrect?
032	H	3										S	
033	H	2										S	(KAOK)
034	H	2										S	(KAOK) Fig 2-c not needed
035	H	2										S	
036	H	3		✔								E	answer is the only one without T/S reference
037	F	2										S	(KAOK)
038	F	2							✔			S	req'd from mem?
039	H	3		✔			✔					E	A and B, Cand D seem similar.
040	F	2										S	
041	H	2										S	
042	H	3										S	(KAOK) SRO K/A value is 3.3
043	H	3										S	(KAOK)
044	H	2										S	
045	F	2										S	
046	H	2		✔								E	All distractors except answer associated with low level in VCT, modify 1 dist
047	F	4										S	(KAOK)
048	H	4										S	doe s "required" mean expected without operator actions
049	F	2										S	
050	H	3										S	are pulse counters normally reset after the realignment is done?

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward		
051	H	2										S	
052	H	1						✔				U	skill demonstrated in prior Q
053	H	2										S	(KA 3.5-022-A4.01 3.6/3.6 more approp)
054	H	2										S	(KAOK)
055	H	2										S	
056	H	3										S	
057	H	3				✔						E	(KAOK) need to adjust condensate inventory up, narrow choices in distractors
058	H	3										S	
059	H	2										S	
060	H	3										S	(KAOK) minor edit.. Vacuum terminology correct? Ensure A is incorrect
061	F	3										S	
062	F	2										S	
063	H	3										S	(KAOK) Can't verify with ref
064	H	4										S	
065	H	3										S	could B be argued as correct?
066	H	2										S	edit dist c (caps, plural)
067	H	2										S	
068	H	3										S	
069	F	3										S	
070	H	2										S	
071	F	3										E	(KAOK) any specific reason for this Q?
072	F	4										S	
073	H	2				✔						E	modify dists.. A.. Actuation at lower than actual, D.... monitor to read higher, actuate normal
074	F	4										S	
075	H	3										S	edit A

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward		
076	H	3	✔									S	(KAOK) edit stem to add "B chiller was declared INOP" and modify dists as needed
077	H	3				✔						S	(KAOK) make one dist... each bank supplies it's respective side
078	H	2										S	
079	F	2										S	edit stem ,
080	H	2										S	
081	H	3						✔				S	(KAOK) admin reqm req'd from mem?
082	F	3										S	
083	F	3										S	
084	F	2										S	
085	F	3										S	(KAOK)
086	F	2										S	
087	H	3										S	(KAOK)
088	F	2		✔								E	(KAOK) answer is only one that is not admin control, add a valid temp change exdample
089	H	3										S	
090	F	2										S	check Q, implies no fuel movment and increasing counts... revise to counts increasing during rod movement, then stabilizing?
091	F	2										S	
092	F	2										S	
093	F	2										S	edit C
094	F	3										S	
095	H	3										E	revise, add times and T/S 3617 b distractor
096	F	3										S	
097	F	3										S	(K/A more like 2.4.11, knowledge of ABN procedures)
098	F	2										S	no handout needed
099	F	2										S	
100	F	1		✔								U	particular reason for this Q, and dist CP-7 and CP-10?

Instructions for Completing Matrix (Complete for either all items or all items requiring comment):

1. Determine whether the task is dynamic (D) or static (S). A dynamic task is one that involves continuous monitoring and response to varying parameters. A static task is basically an system reconfiguration or realignment.

2. Determine level of difficulty (LOD) using established 1-5 rating scale. Levels 1 and 5 represent inappropriate (low or high) discriminatory level for the license being tested.

3. Check the appropriate box when an attribute weakness is identified:
   - The initiating cue is not sufficiently clear to ensure the operator understands the task and how to begin.
   - The JPM does not contain sufficient cues that are objective (not leading).
   - All critical steps (elements) have not been properly identified.
   - Scope of the task is either too narrow (N) or too broad (B).
   - Excessive overlap with other part of operating test or written examination.

4. Check the appropriate box when a job content error is identified:
   - Topics not linked to job content (e.g., disguised task, not required in real job).
   - Task is trivial and without safety significance.

5. Based on the reviewer's judgment, is the JPM as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?

6. Provide a brief description of problem in the explanation column.

Waterford 3 Initial Examination
Oct 2000
Chief Examiner: P. GAGE
Reviewer: R. LANTZ

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Errors					4. Job Content Errors				5. U/E/S	6. Explanation (See below for instructions)
			Stem Focus	Direct L/U	One Ans	Min Resp	Scope (TS?)	Job-Link	Minu-tia	SRO Only	Back-wards		
A.1.1	F	2		X								E	OK if closed ref and specific grading criteria
A.1.2	F	2		X								E	OK if closed ref and specific grading criteria
A.1.3	H	3										S	
A.1.4	F	3										S	need specific grading criteria

INITIAL EXAMINATION DESK GUIDE APPENDIX F - REGION IV OPERATING TEST QUESTION QUALITY REVIEW MATRIX