

ES-401

RO Written Examination Review Worksheet

Form ES-401-9 (R8, S1)

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A		
Instructions														
[Refer to Section D of ES-401 and 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: <ul style="list-style-type: none"> · 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: <ul style="list-style-type: none"> · 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.	<u>Check questions that are sampled</u> for conformance with the approved K/A and those that are <u>designated SRO-only</u> (K/A and license level mismatches are unacceptable).													
6.	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?													
7.	At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).													

RO Written Exam

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only		
11	F	3												S	delete NOTE from the stem. Not sure the note is necessary. But does specify arranged by "order of magnitude" as discussed in App B. Verified that answers are distributed between A-D. Ok as is.
12	F	2												S	
13	H	2												S	New. Edit 2d sentence in stem (core spray pump flow is 5000 gpm). Licensee indicated they will modify. Verified change.
14	F	2										X		S	New. Edit stem (power supply to the...Licensee indicated they will modify. Verified change.
15	H	2												S	
16	F	2												S	
17	F	2												S	New
18	H	2										X		S	Delete note from stem Not sure the note is necessary. But does specify arranged by "order of magnitude" as discussed in App B. Verified that answers are distributed between A-D. Ok as is.
19	H	2												S	
20	H	2										X		S	
21	H	2												S	New
22	H	2												S	
23	H	2												S	
24	F	2												S	
25	H	3												S	New
26	H	2												S	
27	H	2												S	Chg one of the distractors to NE Quad cooling fan units (Isthis possible? Different train of REC?). Not possible to change as requested - would have 2 correct answers - no change.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
28	F	2												S	New. Delete Note from Stem Not sure the note is necessary. But does specify arranged by "order of magnitude" as discussed in App B. Verified that answers are distributed between A-D. Ok as is.
29	F	3												S	
30	F	2												S	

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Form ES-401-9 (R8, S1)

RO Written Exam

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
31	F	3												S	Delete note from stem, new Not sure the note is necessary. But does specify arranged by "order of magnitude" as discussed in App B. Verified that answers are distributed between A-D. Ok as is.
32	H	2										X		S	
33	H	2												S	New. Del note from stem; delete 'are' before necessary. Change answers A and C to have "C" LPCI pump running?? More plausible? Not sure the note is necessary. But does specify arranged by "order of magnitude" as discussed in App B. Verified that answers are distributed between A-D. Based on licensee comments, leave as is - no changes recommended.
34	F	2												S	spell out Rod Worth Minimizer in stem. Will make change. Verified change.
35	H	2										X		S	New
36	F	2												S	New
37	F	2										X		S	
38	F	2												S	
39	F	3												S	New. Spell out (MDEM) etc. Will make change. Verified change
40	F	2										X		S	
41	H	2												S	
42	H	2										X		S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only		
54	F	2												S	New. Needs operational validity. Reword to ask an operator action. K/A is an A not a K. Needs to test an ability not a knowledge. Licensee will replace test item with different question. Verified change.
55	H	2												S	New.
56	H	2										X		S	
57	H	2												S	Recommend no reference. Agree with licensee.
58	F	2										X		S	
59	F	2												S	Shouldn't they know guidelines for returning to 1A w/o a ref. Recommend no reference. Agree with licensee comments - no changes
60	H	2										X		S	New. The way the ques is written, it appears obvious. Licensee indicated no change needed - disagree. Replaced with a new question.
61	F	2												S	SRO only question. K/A is Part 20 not CNS limits. Agree with licensee comments - based on CNS limits as per 2 nd part of K/A statement. Agree with licensee that NOT SRO only .
62	F	2												S	New. Basis Question. Recommend no reference. As written, appears to be an SRO question. Agree with licensee comments.
63	F	2												S	New. Delete "(EOP-5A Step SC-12)" Agree with licensee - no change.
64	H	2												S	
65	F	2												S	
66	F	2												S	New. Recommend no reference. Needs operational validity. Reword to ask an operator action. Ok as is per licensee comments.
67	H	3												S	Isn't the SS responsible for all shift surveillances? Licensee indicated no change necessary - disagree. Level of difficulty is low. Need a different question. Replaced question.
68	F	2												S	

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SRO Written Exam

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85	H	4										X		S	Shouldn't they know by memory 1 hr TS conditons? Recommend no references. Licensee is removing T.S. 3.1.6 reference. Verified change.
86	F	2												S	New
87	H	2												S	
88	F	2												S	New.
89	F	2												S	New. Not SRO only. Systems level question. Agree with licensee. No changes recommended.
90	H	2										X		S	New. Delete note from stem. Not sure the note is necessary. But does specify arranged by "order of magnitude" as discussed in App B. Verified that answers are distributed between A-D. Ok as is.
91	F	2												S	New
92	H	2												S	New.
93	H	2												S	New .
94	H	2												S	Should the correct answer be 7000 gpm vs 6500 gpm (per answer justification)? Topic is good, question appears to have more than one correct answer. Reword question. Agree with licensee comments and resolution. Verified change.
95	H	2												S	New. 43.5???? no procs involved. Not SRO only. Need to change something. Licensee will modify. Verified change.
96	H	2										X		S	
97	H	2												S	
98	F	2												S	
99	F	2												S	As written, appears to be both an RO/SRO only question. Modify to make more operational valid. Reviewed licensee comments and discussed with licensee. The SM is responsible for both PSE and routine dose tracking of operators - leave as is.
100	H	2										X		S	How does this match the K/A. Agree with licensee comments, no changes necessary.