

All questions were reviewed for psychometric flaws and K/A match. The last 25 questions are the SRO questions.

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	SRO Only		
1N	H	2.5												S	
2M	H	2.0												S	
3N	F	2.0												S +	Procedure indicates the RCP should be tripped when the Rx is SD. <i>Note modifies the step to allow continued operation of the RCP. Left as is.</i>
4N	F	2.0												S	
5B	H	2.0												E	Check terminology "seal leakoff" vs "seal return flow" <i>Changed to seal leakoff flow.</i>

#### Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- 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).
- 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.
  - The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
  - One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- 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.
- Check questions that are sampled for conformance with the approved K/A and those that are *designated SRO-only* (K/A and license level mismatches are unacceptable).
- Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

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6N	H	2.5												U	K/A is not correct. <i>Question replaced.</i>
7B	F	2.5												E	Capitalize the word "PREFERRED" in the question stem. <i>Capitalized &amp; underlined.</i>
8M	H	2.5												S U	Can distractor c. be correct if the applicant interpolates? If so, then two correct answers. <i>Procedure does not allow interpolation. Question is ok as is.</i>
9M	H	2.0													Sixth bullet - verb/tense error, 'pressures is.' Fix verb/tense error. <i>Fixed typo.</i>
10M	F	2.0												S	
11N	F	2.0												S	
12B	F	2.0												S	
13N	H	2.5												S	
14B	F	2.5												E	Suggest providing a power level in the given conditions <i>Added power level..</i>
15N	F	2.5												S	
16B	F	2.0												S	
17M	H	2.5												S	
18M	H	2.5												S	
19M	H	2.0												S	
20N	F	2.0												S	
21B	H	2.0												S	
22M	F	2.0												S	Is this material required from memory? Procedure steps. <i>Required from memory. Operators should know this from log taking and system training.</i>

[illegible]

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
38N	H	2.5												S	
39N	H	2.5												S	
40N	H	2.5												S	
41B	H	2.5												S	
42N	H	2.0												S	Can the applicant make a reasonable assumption that the low lube oil pressure trip has failed, the pump seized and answer d. is correct? <i>This assumption would be incorrect. answer d. is not correct. Question is ok as is.</i>
43N	F	2.0												S	
44B	F	2.5												S ⊕	Verify distractor b. is incorrect. DGs usually start on undervoltage. The explanation/justification may be incorrect. If not incorrect, then 2 correct answers provided. Can distractors c. & d. be reworked? If this is a vital bus, there may be no lockout for the bus making the distractors implausible. <i>Distractor b. is incorrect. Reworked c. &amp; d. Distractors were weak but still plausible as written. Q was not unsat as submitted, but needed enhancement.</i>
45M	H	2.0												S	
46M	H	2.0												U	Distractor d. is not plausible. Question is not higher skill, only memory. <i>Agreed. Question changed to memory skill.</i>
47M	F	3.5												E	See if we can change ONLY. It doesn't complete the stem correctly. From memory? <i>Question is ok as-is.</i>
48N	H	2.0												E	Distractor b. is not plausible. <i>Enhancement made.</i>
49N	F	2.0												S ⊕	Not required for ROs from memory. ROs are required to recognize entry conditions for tech specs, not memorize action statements. Change action(s) is/are to ensure single and plural actions are evaluated. <i>Immediate action required from tech specs. Operators are required to know this from memory.</i>
50M	H	2.5												E	Second part of the stem is not necessary, only a repeat of the question. <i>Agreed, modified question stem.</i>

[illegible]

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
69N	F	2.0												S	
70N	H	2.5												S	
71N	F	2.5												S	
72N	F	2.5												S	
73B	F	2.5												S	
74N	F	2.5												S	
75N	F	2.5												U	This is a higher skill question based on where the break might be and the response of the fire protection equipment. <i>Agreed, changed to higher skill.</i>
76M	H	3.0											U	S	
77N	H	3.0											U	S	
78N	H	3.0											U	S	
79N	H	2.5											U	S	
80N	H	2.0											U	S	
81N	H	2.5											U	S	
82N	H	3.5											U	S	
83N	F	2.5											U	S	Make sure distractor a. is incorrect. <i>Not required to re-insert bundle.</i>
84N	F	2.5											U	E	Suggest adding the following bullets: "Unit 2 is at 100% power." and, "All other equipment is in normal operation." This will put bounds on any assumptions the applicants may make. <i>Agreed, modified.</i>
85N	H	2.5											U	S	Verify in distractor (d.) that the containment cleanup fans will start with containment pressure at 12 psig. Check this answer is correct since entry into YELLOW path is not required. <i>Cleanup fans will start, answer is correct, entry into YELLOW path is required.</i>

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86N	H	2.5											U	S	
87N	H	3.0											U	S	
88N	F	2.5											U	S	
89N	H	2.5											U	S	
90N	H	2.0											U	S	
91N	F	2.0											U	S	
92N	H	2.0											U	S	
93B	F	2.0											U	S	
94B	H	2.0											U	S	
95B	F	2.0											U	S	
96B	F	2.0											U	S	
97N	F	2.0											U	S	
98B	F	2.0											U	S	
99M	F	2.0											U	S	
100 M	F	2.0											U	U	Has to decide that an ATWS is occurring based on indications provided. Suggest inserting some LOCA procedures to mix up the procedures. Agreed, changed to higher skill. LOCA would be incorrect and not plausible under the given conditions.