

# questions reviewed in depth.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
1	H	2.5												N	U	Selection of procedures is not required of ROs – SRO question. <b>Re-worked question to RO level.</b>
2	F	2.0												M	S	
3	H	2.0												B	U	Operability determination is an SRO task – SRO question. <b>Re-worked question to RO level.</b>
4	F	2.0												B	S	
5	H	2.0												B	S	
6	H	3.0												B	S	
7	F	2.0												B	S	
8	H	2.0												N	S	Probably not higher. <b>Station agreed – memory level question.</b>

## 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).
- Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.
- 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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9	F	2.0												N	U S	Work on distractors – continuing the downpower is not probable. <b>Downpower is correct under certain circumstances and is proceduralized for those circumstances. Changed to satisfactory.</b>
10	F	1.0												B	U	LOD = 1. GET knowledge. Suggest notification comm. <b>Reworked distractors.</b>
11	F	2.0												B	E	Distractor a. is implausible. Since flow was high when there were no oscillations, why would raising flow cause oscillations? Replace distractor a. <b>Replaced distractor.</b>
12	F	1.0												N	U S	LOD = 1. This is auxiliary operator knowledge. <b>Identified weakness at the station. Will provide feedback to requal.</b>
13	H	2.0												N	S	Not higher skill. Must be memorized. <b>Station agreed. Memory level question.</b>
14#	H	2.0												B	S	
15	F	2.5												N	S	Does the answer change based on RCIC/RHR status? <b>No change, but info enhances the question. Left question as-is.</b>
16#	H	2.5												N	E	Is time necessary? Which way did the valve fail? <b>Removed time. Valve failure (open/close) is part of the question.</b>
17	H	2.0												B	S	
18	H	2.5												N	S	(For an RO?) <b>This is an RO responsibility at the plant and has a learning objective.</b>
19#	F	2.0												N	S	
20	H	2.0												N	S	
21	F	2.0												M	S	Consider some method of explaining “improve.” <b>Left as is, this is company language.</b>
22#	H	2.0												M	S	
23	F	2.0												B	S	
24	H	2.5												N	S	
25#	H	2.0				x								B	U	Immediate, catastrophic failure would not be plausible. Distractors a. and c. are implausible. <b>Replaced question, retained K/A.</b>

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26	H	2.0												N	S	
27	H	2.5												N	S	
28#	H	2.5												B	S	
29	F	2.5												B	S	
30	H	2.0												N	E	Distractor b. is weak. See if we can find a better 2 <sup>nd</sup> half. <b>Replaced 2<sup>nd</sup> half of the distractor</b>
31#	H	2.0												B	S	
32	H	2.5												N	S	
33	H	2.5												B	S	
34#	F	2.0												B	S	
35	H	2.5												N	S	
36	H	2.0												M	S	
37#	H	2.5										x		B	U	K/A is for area rad monitors. Question is for process rad monitors. <b>Agreed. Selected new K/A, fixed question.</b>
38	H	2.5												B	S	
39	H	2.5												B	S	
40#	H	2.0												N	S	
41	H	2.0												B	S	
42	F	2.0				x								N	U	Runout should not occur on a HPCS pump running at 600 gpm. Distractors a. and b. are implausible. <b>Changed distractor.</b>
43#	F	2.0												B	S	
44	H	2.0												N	S	
45	H	2.0												M	S	
46#	F	1.0												N	U	LOD = 1 <b>Reworked question.</b>
47	H	2.0												B	E	Distractor b. is implausible. The distractor has reactor power lowering while reactor period is stable and positive. Violates laws of physics. <b>Replaced distractor.</b>
48	H	2.0												N	E	Bulletize plant conditions. <b>Bulletized</b>

[illegible]

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72	H	2.0												B	S	
73	F	2.0												N	S	
74	H	2.0												B	S	
75	F	1.0										x		B	U	LOD = 1, Q does not match K/A. Remove intro, ask question. <b>Replaced question.</b>
76#	H	2.0											X	N	S	
77	H	2.0											X	N	U	Not an SRO question. ROs are required to recognize TS entry. <b>Replaced question.</b>
78	H	2.5											X	N	S	
79#	H	2.5											X	B	S	
80	H	1.0						x					X	B	U S	LOD = 1. Not an SRO Only question. This is GET info. <b>Info is not provided in GET. This is an Interim Emergency Director, i.e., Shift Manager duty.</b>
81	H	2.0											X	B	S	
82#	F	2.0											X	N	S	
83	H	2.0											X	N	S	
84	H	2.0											X	N	S	
85#	H	2.0											X	N	S	
86	H	2.0											X	B	S	
87	H	2.0											X	B	S	Do the ROs ride the trolley? If so, this is not an SRO Only Q. <b>ROs ride the trolley in the refuel building, but are not responsible for activities in the containment. Question is ok.</b>
88#	H	2.5											X	N	S	May be no correct answer. Probably need EOPs to correctly answer this question. <b>Replaced question.</b>
89	H	2.0											X	N	S	
90	H	2.0						x					X	N	U	Not an SRO question. EOP bases are RO level questions. <b>Replaced question.</b>
91#	F	2.0				x							X	B	U	Nothing in the question stem would cause me to select any of the other distractors. <b>Replaced question.</b>

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92	H	2.5						x					X	B	U	First part of 1 of 2 taken twice is not a selection of a procedure and is expected knowledge of an RO. Second part of the 1 of 2 taken twice is EOP bases is not SRO Only. <b>Replaced question.</b>
93	H	2.5											X	B	S	
94#	H	2.0											X	N	E	Change Technician to Technical <b>Made change.</b>
95	H	2.0						x					X	N	U	ROs are required to know TS entry conditions. This makes 2 of 4 distractors implausible. The only item being tested above RO level is the length of time before tripping the channel. <b>Reworked question.</b>
96	H	2.0						x					X	B	U	RO required knowledge. Does not specify a procedure, but general actions to take for the condition. <b>Reworked distractors, added procedure selection.</b>
97	H	2.5						x					X	N	U	RO required knowledge. First part of 1 of 2 taken twice is system knowledge. 2 <sup>nd</sup> part is a TS entry condition. <b>Reworked question.</b>
98	H	2.0						x					X	B	U	RO required knowledge. Must be memorized. <b>Added procedure entry requirements to move to SRO question.</b>
99	H	2.0						x					X	B	U	RO required knowledge. <b>Replaced question.</b>
100	F	2.0						x					X	N	U S	RO required knowledge <b>This is a special case where SRO oversite is required. Question retained.</b>