

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation (Only identified flaws will be marked on the form below)
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only		
1	H	3	X											E	Time span specified; distractor d. clarified
2	F	2	X											E	Stem modified and procedure referenced in stem
3	F	2	X											E	Question modified for clarity and referenced procedure in stem
4	F	2												S	
5	H	3												S	Capitalization changes in distractors c & d
6	F	2												S	Grammar change "types of failures"
7	F	2												S	
8	H	3	X											E	Question and distractor b modified
9	H	2												S	Ginna agreed LOK is H vs F
10	F	2	X											E	Question re-ordered/re-worded

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).

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation (Only identified flaws will be marked on the form below)
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
11	F	2	X											E	Question re-worded
12	H	2												S	
13	H	3												S	
14	H	2	X											E	Question re-worded and added procedure reference in stem
15	H	2	X											E	Question modified for clarity and specified time span
16	H	2												S	
17	F	2	X											E	Question modified and procedure referenced in stem
18	H	3	X											E	Question shortened
19	H	2	X											E	"would be" deleted & replaced with "is;" Ginna agreed LOK is H vs F .
20	F	3												S	
21	H	2												S	
22	H	3	X											E	Question modified - deleted "slowly"
23	H	2	X											E	Question modified to reference procedure in stem
24	H	3	X											E	Question shortened
25	F	3										X		U	K/A mismatch; procedural actions/responses deleted
26	H	3												S	
27	H	3	X											E	Question wording re-ordered
28	H	2						X						U	All distractors were correct; focused question by referencing procedure
29	F	2	X											E	Question was shortened and restructured
30	H	3	X											E	Q changed to F vs H; refers to procedure in stem; distractor c shortened

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation (Only identified flaws will be marked below)
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
31	H	3												S	
32	F	3												S	
33	F	2	X											E	Question was re-ordered
34	F	2	X											E	First bullet deleted - unnecessary
35	H	2	X											E	Q changed to F vs H; added "sequences;" refers to procedure in stem
36	F	2	X											E	Added "minimum"
37	F	2												S	
38	F	2												S	
39	H	3	X											E	Question and distractor b re-worded
40	H	2												S	
41	H	3	X											E	Question modified for clarity
42	H	2												S	
43	H	3	X											E	Added procedure reference in stem
44	H	2	X											E	Question re-worded to clarify time frame
45	H	3									X			U	Question rewritten to eliminate backwards logic
46	H	2				X								E	Distractors restructured
47	H	3	X											E	Distractor a re-written
48	H	2	X											E	Question restructured; distractor c changed to 1B vs 1A
49	H	3												S	
50	F	2												S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation (Only identified flaws will be marked below)
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
51	H	2												S	
52	F	2												S	
53	H	2	X											E	Question modified and distractors re-ordered
54	H	4												S	
55	H	3	X											E	First two bullets deleted; question re-ordered
56	H	3	X											E	First two sentences deleted; "effect" vs "affect"
57	H	3	X											E	Added "if any;" amplified distractor d;
58	F	3												S	
59	H	4	X											E	"in/operable" capitalized in distractors
60	H	3												S	
61	H	3	X											E	Time frame specified; "vacuum" added; were vs where
62	F	2												S	
63	H	2	X											E	Stem sentence broken up; added "if any"
64	H	2												S	
65	F	3	X											E	"from" vs "of" a loss of AC power
66	F	2												S	
67	F	2	X											E	Question shortened to fill-in-the-blank-type
68	H	3	X											E	Added "if any;" modified distractors
69	F	2	X											E	Added procedure reference in stem
70	H	2	X											E	Deleted second half of distractor b

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation (Only identified flaws will be marked below)	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
1	H	2													S	
2	H	3													S	
3	H	2													S	
4															E	Question replaced -similar to JPM; too much EP on written exam
5	H	3										X			U	K/A mismatch; replaced
6	H	2													S	
7	H	2													S	
8	H	2	X												E	Capitalize "in/operability"
9	H	3													S	
10	H	3	X												S	

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).

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation (Only identified flaws are marked below)
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only		
11	H	2												S	
12	F	2												S	
13	H	2												S	Ginna agreed LOK is H vs F
14	H	3	X											E	Added "if any"
15	H	2												S	
16	H	2	X											E	Misspelled "organiztion"
17	H	3	X											E	Restructured question; modified distractor d for parallelism
18	H	3	X											E	Added "if any" and "MCB controls and indictations"
19	H	2	X											E	"shall" vs "should"
20	H	2	X											E	Added procedure reference in stem; Ginna agreed LOK is H vs F
21	F	3	X											E	Added TS reference in stem
22	H	2												S	Ginna agreed LOK is H vs F
23	F	2	X											E	Added "MINIMUM" and reworded
24	H	2												S	
25	H	3												S	

Changes to the Operating exam resulting from NRC Review

- 1) Operating Exam Outlines and Quality Checklists
 - a) Form ES-301-1 SRO
 - i) Corrected JPM number for second JPM from JS341.001 to JS343.006
 - b) Form ES-301-2 RO
 - i) Corrected JPM number for a. to JR012.013
 - c) Forms ES301-5 and 6
 - i) Revised forms to reflect that only 2 SRO-U candidates will be taking the exam
- 2) In-Plant JPMs
 - a) JN086.002 Secure Plant Ventilation During a Fire.
 - i) Added a statement to the initial conditions specifying that the system was in operation.
 - b) JC035.006 Perform Attachment Ruptured Steam Generator Part B
 - i) Added a reference giving valve locations to be used by the examiner in case a candidate needs a location cue.
 - ii) Add word "Close" to beginning of element for steps 3-8 specify action for the examiner.
 - c) JN071.002 Release the A Gas Decay Tank
 - i) Steps 2 and 3 Changed "Close" to "Verify Closed". Procedure step is verification; they are expected to be closed.
 - ii) Steps 2 and 5 added a cue to indicate that these components have hold/block tags installed.
- 3) Simulator JPMs
 - a) JR001.013 Realign a Misaligned RCC
 - i) Step 13 Change to Not Critical
 - b) JR004.012 Burp the VCT to remove Hydrogen
 - i) Change step 2 to Critical
 - ii) Change step 6 to Not Critical
 - iii) Modify setup to have 60 GPM letdown orifice in service
 - iv) End JPM at step 24 when AO sent to investigate
 - c) JR006.002 Nitrogen Makeup to Accumulator
 - i) Steps 8 and 15 are not critical
 - ii) Step 9 is critical
 - iii) Add note to step 11 for booth operator to set N₂ press to 2500 psig
 - d) JR103.007 Manually Close CNMT Valves on CI Failure
 - i) Provide List of valve that must be closed in check off format.
 - e) JR064.002 Start and Load EDG
 - i) Start JPM a current step 22
 - ii) Fix Setup tom actuate both SI Trains
 - f) JR012.001 Defeat a Failed PRZR Pressure Channel
 - i) End JPM at step 12

- 4) Administrative JPMs
 - a) JR343.005 Control of LCOs for equipment OOS
 - i) Added "attachment 1" to clarify what part of A-52.4 to perform
 - ii) Added a CR number to use to fill out the attachment
 - b) JC119.001 Complete EPIP 1-5 Status report (no PPCS available)
 - i) Specified which parameter are critical data for determining sat/unsat for data recording
 - ii) Made the step for transmitting the data NOT CRITICAL
 - c) JS343.006 Loss of Safety Function Determination
 - i) Corrected Typo in step 1
 - d) JS119.001 Verify Equipment Tagout Boundary
 - i) Reworded Initiating Cue to clarify task
 - e) JS340.021 Event Classification
 - i) Added note to Initiating Cue to indicate that this task is time critical.
 - ii) Added EAL 6.1.3 as a second possible classification for scenario 06-1-1
- 5) Simulator Scenarios
 - a) Scenario 06-1-1
 - i) Increase the ramp time for the PRZR spray valve failure from 30 to 300 seconds
 - ii) Correct a typo in the transition step in event 9
 - b) Scenario 06-01-2
 - i) Adjusted ramp rate on fuel failure to give quicker response.