

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 to 5 (easy to difficult) rating scale (questions in the 2 to 4 range are acceptable).
3. Check the appropriate box if a psychometric flaw is identified:
 - a. The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
 - b. The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
 - c. The answer choices are a collection of unrelated true/false statements.
 - d. The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
 - e. 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:
 - a. 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).
 - b. 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).
 - c. The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
 - d. The question requires reverse logic or application compared to the job requirements.
5. 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).
6. Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.
7. 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? Place the answer letter here
Place the 55.41 or 55.43 item here
8. At a minimum, explain any Unsat ratings (e.g., how the Appendix B psychometric attributes are not being met).

Q#	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
1	H	3												B	E	C	10	Handout Provided Minor editorial edits Added revision numbers to handout material Added space between bullets Question revised - Sat
2	H	3												N	S	A	8	Sample Test Item Review
3	H	2.5												B	E	D	7	Minor editorial edits Added current plant conditions Re-ordered answers short to long Corrected Technical references Question revised - Sat
4	H	3										X		M	U	D	5	Unsat - K/A doesn't address impact of MT trip on pressure regulating system Submitted new question (Modified) Question revised - Sat
5	F	2												B	E	B	7	2017 NRC Exam (1) Editorial edits Removed information from each question and put in stem Added plausibility statements Changed 10CFR to 7 Question revised - Sat

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
6	H	3												B	E	B	10	Handout Provided Minor editorial edits Changed inch symbol to "inches", Changed wording in distracter description to "indicated level" Question revised - Sat
7	H	4												B	E	D	4	Editorial edits Changed to operating pump Changed stem verb to identifies and wording to without CCW flow Swapped answers B and C Changed LOD to 4 Question revised - Sat
8	F	3												N	E	A	4	Editorial edits Defined PAC in stem Editorial changes in answers Added clarification in distracter explanation Question revised - Sat
9	H	3												B	E	A	8	Minor editorial edits Used bullets in stem Question revised - Sat
10	H	3												N	E	C	9	Minor editorial edits Gramatical errors Question revised - Sat
11	H	3												N	E	B	7	Minor editorial edits Used the word "status" instead of "availability" Question revised - Sat
12	H	3												N	E	B	14	Editorial edits Reworded stem and #2 question for clarity Question revised - Sat
13	H	2												B	S	C	5	Handout Provided
14	H	3												B	E	B	10	Handout Provided - 2015 NRC Exam (2) Minor editorial edits Added "current data points" Changed answer 'A' from Fuel Zone Range only Make 'only' All Caps Changed 10 CFR # to 10 Question revised - Sat
15	F	2												N	E	D	5	Minor editorial edits Moved "go" to the stem and deleted from each answer Question revised - Sat
16	F	2												N	E	C	7	Minor editorial edits Changed in answer D, FT to ft. Question revised - Sat
17	F	2												N	S	C	7	

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
18	F	3												N	E	D	10	Minor editorial edits Changed answers from short to long Added CAPS to components in stem Question revised - Sat
19	H	3												B	E	D	10	Minor editorial edits Changed verb to identifies in stem Editorial changes in stem and answers ALL CAPS on the word "only" Question revised - Sat
20	F	2												N	S	B	10	
21	H	3												N	S	A	3	Sample Test Item Review Changed 10 CFR # to 3, MSIVs are components of the primary system
22	H	3												N	E	C	4	Minor editorial edits Editorial changes in stem and answers Added "in inches" to stem Removed inch symbol in all answers Question revised - Sat
23	H	2.5												N	E	B	9	Editorial edits Made question part of stem 2 parts Made answers 2X2 Added space in bullets Question revised - Sat
24	F	3												B	S	A	10	Changed LOD to 3
25	H	3												N	E	C	10	Sample Test Item Review Editorial edits Created two line answers Question revised - Sat
26	H	3												N	E	A	10	Editorial edits Editorial changes in stem and answers Question revised - Sat
27	H	3												N	E	C	10	Editorial edits Editorial changes in stem and answers Question revised - Sat
28	F	2												N	S	B	8	
29	H	3												N	E	D	8	Minor editorial edits Editorial changes in stem and answers Question revised - Sat
30	H	3												N	E	A	7	Minor editorial edits Editorial changes in stem and answers Question revised - Sat
31	F	2												B	E	B	14	Minor editorial edits Editorial changes in stem and answers Re-ordered answers short to long Question revised - Sat

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
32	H	3												N	E	D	7	Editorial edits Editorial changes in stem and answers Removed third part (#3) of stem and third part of all answers. Question revised - Sat
33	H	3												N	E	A	7	Editorial edits - rewrite question Editorial changes in stem and answers Changed part one of answers per Chief's request Question revised - Sat
34	F	2												N	S	A	6	
35	H	2												N	E	B	6	Editorial edits Changed stem to fill in the blank with 2 parts Changed 10CFR to 6 Question revised - Sat
36	H	3												B	E	A	7	Editorial edits Editorial changes in stem and answers Removed reference to EPA breakers and third part of answers Question revised - Sat
37	F	3												B	S	C	7	2017 NRC Exam (3) Minor editorial edits Chnaged to Memory/Fundamental
38	F	3												N	E	D	2	Minor editorial edits Changed answer B from "anytime" TO "in all conditions" Defined SRM/IRM overlap in Explanation Changed LOD to 3 Question revised - Sat
39	H	3												N	E	C	2	Minor editorial edits Minor changes to stem Question revised - Sat
40	F	3												N	S	C	7	Changed LOD to 3
41	F	2												N	S	A	3	
42	H	3												N	E	A	7	Editorial edits Editorial changes in stem and answers Added noun name of G33-F004 Changed answers short to long Question revised - Sat
43	F	2												B	S	C	3	changed answer order for distribution
44	H	3												M	E	D	7	Editorial edits Editorial changes in stem and answers Added "initially" in stem Replaced " symbol with inches Question revised - Sat

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
45	H	3												B	E	C	11	Minor editorial edits Editorial changes in stem Question revised - Sat
46	H	3												B	E	B	7	Minor editorial edits Editorial changes in stem Changed 3000 to 3.0 KV to match indicator Question revised - Sat
47	H	3												N	E	C	8	Sample Test Item Review Minor editorial edits Editorial changes in stem and answers Changed 10CFR to 8 Changed LOK to H and LOD to 3 Question revised - Sat
48	H	3												B	E	B	7	Corrected spelling error on revised question. Question revised - Sat
49	H	3												B	S	D	7	
50	F	3												N	E	A	10	Editorial edits Editorial changes in answers Question revised - Sat
51	F	3												N	E	D	7	Editorial edits Editorial changes in stem Changed to Memory Fundamental Question revised - Sat
52	F	2												B	S	A	4	
53	F	2												N	S	D	4	
54	H	3												N	E	D	2	Minor rev to make stem questions consistent Question revised - Sat
55	F	3												N	S	D	4	Used "Recirc" in stem Changed to Memory Fundamental Changed to LOD 3
56	H	3												N	S	C	12	Changed 10CFR # to 12
57	H	3												N	S	D	8	
58	H	4												N	E	C	8	Minor editorial edits Defined LOCA in stem Changed time for load rise to 18 min. Changed LOD to 4 Question revised - Sat
59	F	2												N	E	B	1	Editorial edits Editorial changes in stem Changed 10CFR to 1 Question revised - Sat
60	H	3												B	E	B	4	Editorial edits Editorial changes in stem and answers Question revised - Sat

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
61	H	3												B	S	A	4	
62	F	2												N	S	D	5	
63	H	3												N	E	B	7	Editorial edits Editorial changes in stem and answers Question revised - Sat
64	H	3												N	E	D	4	Editorial edits Editorial changes in stem and answers Question revised - Sat
65	H	3												B	E	A	11	Editorial edits Editorial changes in stem and answers Question revised - Sat
66	F	3												B	S	B	10	Changed to LOD 3
67	F	2												B	S	A	10	
68	F	2												N	E	B	10	Editorial edits Removed first sentence of the stem Question revised - Sat
69	F	2												B	S	A	10	
70	F	3												B	E	D	10	Minor editorial edits Added noun name of P21 system Changed LOD to 3 Question revised - Sat
71	F	2												B	S	B	10	
72	F	2										X		B	U	B	12	Unsat - not a Tier 3 question Incorporated new question 2017 NRC Exam (4) Question revised - Sat
73	F	2												B	E	C	12	Editorial edits Editorial changes in stem and answers Moved part of all answers to stem and made a fill in blank Question revised - Sat
74	F	2												N	E	D	10	Editorial edits - rewrite question Changed answers to a 2X2 format Question revised - Sat
75	F	3												N	E	A	10	Editorial edits Editorial changes in stem and answers Question revised - Sat
76	H	3												N	E	C	2	Handout Provided Minor editorial edit Re-ordered answers hi to lo Added page numbers to Handout material Question revised - Sat
77	H	3												N	S	B	5	Changed 10CFR # to 5

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
78	F	2												B	E	A	2	Replace K/A with TS Bases to better comply with SRO-only. Same question with minor edits. Editorial changes Changed K/A to 2.2.25 Question revised - Sat
79	H	4												N	E	D	5	Handout Provided Minor editorial edits Editorial changes , changed considered to "available", moved second to third bullet. Added sections of SOPP to given to the applicants Changed LOD to 4 Changed 10CFR # to 5 Question revised - Sat
80	H	3												N	E	C	4	Sample Test Item Review Editorial edits Editorial changes to stem Changed rad monitors name to EP-4 Table SC-1 description Changed 10CFR # to 4 Question revised - Sat
81	H	3												B	E	A	5	Handout Provided Editorial edits Changed to "Given the following" Editorial changes Changed answers to actions Question revised - Sat
82	H	3												N	E	B	5	Handout Provided Minor editorial edits Added procedure number of handout material. Added "s" to answers C and D to make plural. Question revised - Sat
83	H	4												N	E	A	5	Sample Test Item Review Minor editorial edits Editorial changes to stem. Changed to LOD 4 Question revised - Sat
84	H	3												N	S	C	6	Changed 10CFR # to 6
85	H	3												N	E	D	5	Handout Provided Minor editorial edits Added "and stable" to stem Added procedure numbers to Handout material Added another procedure to Reference material Question revised - Sat

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
86	H	3												N	E	B	5	Sample Test Item Review Editorial edits Editorial changes to stem Moved water level from bullets Question revised - Sat
87	H	4												N	E	A	5	Sample Test Item Review Not clear only 1 correct answer Changed to 2 questions, with impact first then procedure used Changed answers to 2X2 format Question revised - Sat
88	H	3												N	E	D	2	Sample Test Item Review Tech Specs in lieu of procedures ok within limits Revised question and answers NO Handout provided Changed 10CFR # to 2 Question revised - Sat
89	H	3												N	E	D	5	Editorial edits. Rewrite question to better address K/A Changed answers to match K/A NO Handout provided Question revised - Sat
90	H	3												N	E	B	2	Sample Test Item Review Editorial edits Editorial changes Made answers two parts for A2 Changed 10CFR # to 2 Question revised - Sat
91	F	3										X		N	U	A	2	Unsat - K/A mismatch. Doesn't include requirements of A2 K/A. Added information to the stem, Made 2 questions to cover the A2 KA. Corrected the question info to match question. Change to a new question instead of bank Question revised - Sat
92	F	3												N	E	C	7	Editorial edits - rewrite question Added refueling platform position to stem. Added IAW Tech Spec SR. Changed answers small to large. Question revised - Sat
93	H	3										X		N	U	D	5	Unsat - K/A mismatch. Does address low power/shutdown implications. Reselect K/A, same question with minor edits. Changed K/A, randomly selected 2.4.8 Editorial changes in stem Changed 10CFR # to 5 Question revised - Sat

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation
94	F	2												B	S	B	5	
95	F	3												B	S	B	6	2015 NRC Exam (1) Changed LOD to 3 Changed 10CFR # to 6
96	F	3												N	S	A	3	Changed LOD to 3 Changed 10CFR # to 3
97	F	3												B	E	B	5	Editorial edits Editorial changes in stem Changed answers Changed to LOD 3 Question revised - Sat
98	F	3											X	N	U	C	4	Unsat - overlap with Op Test JPM Changed emergency classification to UE Change explanations Changed to LOD 3 Changed from Bank to NEW Changed 10CFR # to 4 Question revised - Sat
99	F	3												B	E	C	5	Minor editorial edits Changed to LOD 3 and minor grammar (tense) change Question revised - Sat
100	F	2												N	S	B	5	

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Answer	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue	T/F	cred dist	partial	job link	minutia	# / units	back- ward	K/A	SRO- only	B/M/N	U/E/S	A/B/C/D	55.41x 55.43y	Explanation

Results Table

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