

KEWAUNEE 2011 Exam

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	F	3										X		N	E	Added 'light' to 4 th & 5 th bullets in stem of question to be consistent.
2	H	3										X		B	S	
3	H	3										X		N	S	
4	H	3										X		B	S	
5	H	3										X		M	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).
- 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).

A "+" in the "Q#" column indicates that question was reviewed as part of the representative sample of 30 questions.

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6	H	2										X		B	S	
7	H	2										X		N	S	
8	F	2										X		N	S	
9	H	2										X		N	S	Last sentence in distractor C justification states PT-429 failed low causes PORV B not to open. But it doesn't open since selector switch is in 2-1 position? Why is distractor B incorrect? Justification doesn't make sense since PT449 is unaffected by stem condition. RE: Requires both PT449 and PT429 greater than setpoint to open PORVs. Selector sw is not relevant to Distractor 'c'.
10	H	3										X		N	S	
11	F	3										X		N	S	
12	F	2										X		N	S	
13	F	2										X		B	S	
14	H	3										X		N	S	
15	H	2										X		B	S	
16	H	2										X		N	E	Added 2 nd set of bullets to stem of question to inhibit possible 'no correct answer' response by applicants more versed in law than procedure adherence! (Licensee id'd).
17	H	3										X		B	S	
18	H	3										X		N	S	
19	H	3										X		N	E	Added correct designator of switch to distractors in lieu of using short hand designator.
20	F	2										X		N	S	Do not have references that isolate SG with leakage >100 gpd! RE: AOP RC-004, requires isolate SG with leakage >100 gpd. Reference missing. Will provide step in procedure.
21	H	3										X		N	S	Is P2 Permissive light lit due to power at 7% or due to N-35 failure? P2 lit due to less than 7%. Ran on simulator.
22	F	3										X		N	S	
23	F	2										X		N	S	

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24	F	2										X		N	S	
25	H	2										X		N	S	
26	H	2										X		N	S	
27	F	2										X		N	S	
28	F	2										X		M	S	Bordering on too easy!
29	H	2										Y		N	S	
30	F	2										Y		N	S	
31	H	3										Y		N	S	
32	H	4										Y		N	S	Most difficult! Are annunciator lights out due to loss of power or due to component positioning? Bottom 6 rows unaffected. Delete? Was this validated on simulator? Is there a 'B' Ctmt Isol Panel not shown? RE: Yes, run on simulator! This is a status panel, operators look at entire panel, not just upper rows. Keep Q as is.
33	H	2										Y		N	S	Are Ctmt Spray & Ctmt Fan Coil Units ECCS? RE: Yes, credited ECCS sources for lowering containment pressure post accident.
34	H	3										Y		N	S	
35	H	2										Y		N	S	Chg Pump 1B stopped by SI? RE: Yes auto inhibited during SI.
36	F	2										Y		N	S	At what rad level does CCW surge tank vent line auto close? RE: CCW Vent line used to close on rad alert but function disabled.
37	H	3										Y		B	E	Corrected pzs spray valve designators – added PS-1B.
38	F	2										Y		B	S	
39	F	2										Y		M	S	
40	H	3										Y		N	S	
41	H	3										N		N	U	Are there instrument indications for this system? Mismatch on K/A. RE: SW Shroud Cooling coils are in containment and are isolated during an accident. RE: Changed stem and Made into a 2-part question, for ctmt press and temp and/or rate of rise..

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42	H	3										Y		N	E	Distractor B is not plausible, must be changed! RE: Changed distractor to reference load shed and sequencer (incorrect distractor).
43	F	3										Y		N	S	
44	F	3										Y		M	S	
45	H	3										Y		N	S	
46	F	2										Y		N	S	
47	F	2								X		Y		B	S	Stem states 221 amp-hrs. Reference states battery is rated for 221 amps for 8 hours. Discharge rate should be ~27 amps for 8 hrs? RE: Licensee validators had no problem with units. Keep Q as is.
48	F	3				X						Y		B	E	"C" distractor, what does BRA-102 have to do with BRA112 since it indirectly feeds the stand-by source. Is BRA 102 in distractor a typo for BRA 112. RE: No typo, BRA 102 supplies stand by source. Keep Q as is.
49	H	2										Y		M	S	
50	F	2										Y		B	S	
51	H	3										Y		N	S	
52	H	3				X						Y		N	E	Change "should" to "musts"? Distractor "A" could be construed as being correct since CW pumps trip if forebay level is <64%? RE: No, CW pumps auto trip at 42% level. Distractor A still incorrect. Changed shoulds to shalls.
53	H	2										Y		N	S	
54	F	2										Y		B	S	
55	F	2										Y		N	E	Capitalize "both" and "and." RE: Done.
56	F	2										Y		N	S	
57	H	3										Y		N	S	
58	F	2										Y		N	S	
59	F	2										Y		B	S	

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60	H	3										Y		N	S	Not in "A2" format. RE: Rereviewed and determined that distracters included 'A2' format. Changed incorrect distractor 'c' from "release to environment" to "release to the Aux Bldg" to prevent possible 2 correct answer.
61	F	2										Y		N	S	
62	H	2										Y		M	S	
63	F	2										Y		B	S	
64	F	3										Y	X	N	U S	RO's not required to know basis to TS. RE: Question asking RO knowledge of components of TS not TS basis. What is purpose could be used as a substitute. RE: Changed references to UFSAR.
65	H	3										Y	X	N	U S	RO's not required to know basis to TS. RE: Question asking RO knowledge of components of TS not TS basis. What is purpose could be used as a substitute. RE: Changed references to UFSAR.
66	H	3										Y		N	S	
67	F	2										Y		N	S	
68	F	3										Y		N	U	Diesel Fire pump can be monitored from DSP but not operated from DSP. Removed Fire Pump from distractor 'A' to prevent against "no correct answer." (licensee id'd unsat)
69	H	3										Y		N	S	Why the need to bring Time into stem? Why not use terms of highest mode? And eliminate third column. RE: Wanted distracters to be more plausible by adding time dimension. Question draws from Mode (temp dependent), LCO (Pressure dependent) and Time from LCO 3.0.3. Keep Q as is.
70	F	2										Y		N	S	
71	F	3										Y		B	S	
72	F	2										N		B	U	This is a rad posting question. Does not meet K/A for exposure limits! RE: Replaced Q.
73	F	3										Y		N	S	
74	F	2										Y		N	S	
75	H	3										Y		N	S	

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S1	H	3										Y	Y	B	S	
S2	F	3										Y	Y	N	S	
S3	H	3										Y	Y	N	S	
S4	H	3										Y	Y	N	S	
S5	H	3										Y	Y	N	S	
S6	H	3										Y	Y	N	E	Changed distractor "D" since temps could reach FR-C1 transition. Changed to transition to FR-C2 (still the incorrect distractor).
S7	F	2										Y	Y	M	S	
S8	H	3										Y	Y	N	S	
S9	H	3										Y	Y	N	S	
S10	H	2										Y	Y	N	S	
S11	H	3										Y	Y	N	S	Are references provided? RE: No references provided.
S12	H	3										Y	Y	N	S	
S13	H	3										Y	Y	N	S	
S14	H	2										Y	Y	N	S	
S15	F	3										N	Y	N	U	Does not meet intent of K/A, Notification of offsite authorities. RE: Needs to be addressed. Reselected K/A since no notifications for cmt. Repicked electrical distribution K/A.
S16	H	3										Y	Y	M	E	Do you need to add, "Rx trip without SI" to stem? RE: Received no comments from validators on need to add comment. But added no SI occurred to new last bullet in stem.
S17	H	2										Y	Y	M	S	
S18	H	3										Y	Y	N	S	"D" distractor not plausible since can't go from E-2 to ECA 3-1. How about using E-0 Fold out page to isolate FW to SG. Statement would be incorrect since SG Levels not rising in an uncontrolled manner. RE: Even though not possible to transition to ECA 3-1 from E-2, could be possible for someone who doesn't understand transitions. Leave Q as is.

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S19	H	3										Y	Y	N	S	
S20	F	3										Y	Y	B	S	Added, "In an emergency .." to stem and added, " to protect public safety" to distractor A.
S21	H	3										Y	Y	B	S	
S22	F	2										Y	Y	N	S	Changed grammar in stem of question.
S23	H	2										Y	Y	N	S	
S24	H	3										Y	Y	M	S	Changed status of refueling personnel in stem
S25	H	3										Y	Y	N	S	Don't need second part of question to answer correctly. RE: Second part of question added as a result of validation. Removed references to time and revalidated. Discussed with EP folks, OK.