# WRITTEN EXAMINATION REVIEW WORKSHEET, ES-401-9

## WITH NRC COMMENTS

## FOR THE MONTICELLO INITIAL EXAMINATION - OCT 2002

## Review Worksheet

The first 30 questions were used for the sample. All 125 questions were reviewed for accuracy and K/A match.

| 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 | | |
| 1 | F | 2 | | | | | | | | | | x | | S | |
| 2 | H | 2.5 | | | | | | | | | | x | | U | K/A asks ability to monitor, Q asks what will cause a rod block. |
| 3 | H | 2.5 | | | | | | | | | | | x | U | Applicants will perform this operation during the operating test (overlap). |
| 4 | F | 2.0 | | | | | | | | | | | | S | |
| 5 | H | 2.5 | | | | | | | | | | | x | U | Not SRO ONLY. ROs required to know this material |
| 7 | H | 2.5 | | | | | | | | | | | | E | Put stem in past tense, put distractors in columns to highlight 2-parts |
| 8 | H | 2.0 | | | | | | | | | | x | | U | effecting should be affecting - K/A ask for recirc effects, Q asks who? |
| 9 | (F)H | 2.5 | | | | | | | | | | | | S | . |
| 10 | H | 2.5 | | | | | | | | | | | | E | Reformat distractors |
| 11 | H | 2.5 | | | | | | | | | | | | E | annuciator is annunciator |

### 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 - 5 (easy - difficult) rating scale (questions in the 2 - 4 range are acceptable).

3.     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.
   - More than one distractor is not credible.
   - 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:
   - 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.

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.     Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?

7.     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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | Explanation |
| 12 | H | 2.5 | | | | | | | | | | | | S | |
| 13 | F | 2.0 | | | | | | | | | | | | S | |
| 14 | H | 2.0 | | | | | | | | | | | | S | |
| 15 | (F)H | 2.0 | | | | | | | | | | | | U | Requires some analysis. With info given, can't rule out distractor b. how was this taught? |
| 16 | H | 2.5 | | | | | | | | | | | | E | inseration is spelled insertion |
| 17 | (H)F | 2.0 | | | | | | | | | | | | U | If 18 is fundamental, so is this one. Put plant conditions in past tense. ask how taught. |
| 18 | F | 2.0 | | | | | | | | | | | | S | |
| 19 | H | 3.0 | | | | | | | | | | x | | S | |
| 20 | F | 2.0 | | | | | | | | | | | | S | |
| 21 | (H)F | 2.5 | | | | | | | | | | | | U | Requires only memory of power supplies to the APRMs. |
| 22 | (F)H | 2.5 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 23 | (H)F | 2.5 | | | | | | | | | | | x | U | Requires only memory of basis and when a T.S. is applicable. |
| 24 | (F)H | 3.0 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 25 | (F)H | 2.5 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 26 | (F)H | 2.0 | | | | | | | | | | | ? | U | Requires some analysis, do you require ROs to make operability calls? |
| 27 | (F)H | 2.0 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 28 | H | 3.5 | | | | | | | | | | | | S | |
| 29 | (F)H | 2.5 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 30 | F | 2.0 | | | | | | | | | | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | |
| 31 | H | 2.5 | | | | | | | | | | | | E | Put "The Containment Spray Valves will" in the stem. In distractor C., make Valve plural like the other distractors (Valves). |
| 32 | H | 2.5 | | | | | | | | | | | | S | |
| 33 | (F)H | 2.5 | | | | | | | | | | | ? | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 34 | H | 2.0 | | | | | | | | | | | | S | |
| 35 | F | 2.0 | | | | | | | | | | | | S | |
| 36 | H | 2.0 | | | | | | | | | | | | S | |
| 37 | (F)H | 2.0 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 38 | H | 3.0 | | | | | | | | | | | | S | |
| 39 | (F)H | 2.5 | | | | | | | | | | | | U | Requires some analysis of given conditions to arrive at a conclusion. |
| 40 | F | 2.0 | | | | | | | | | | | | S | |
| 41 | H | 3.0 | | | | | | | | | | | | E | Put in column format. |
| 42 | H | 2.5 | | | | | | | | | | | | E | Put in column format. |
| 43 | H | 2.5 | | | | | | | | | | | | E | Put in column format |
| 44 | H | 4.0 | | | | | | | | | | | x | S | |
| 45 | H | 2.5 | | | | | | | | | | | | E | Put in column format |
| 46 | H | 2.0 | | | | | | | | • | | | | S | |
| 47 | (F)H | 2.0 | | | | | | | | | | | | U | Requires an RO to make an operability determination. Describe the monthly test somewhat Requires some analysis of given conditions to arrive at a conclusion. |
| 48 | (H)F | 2.0 | | | | | | | | | | | | U | Requires recall of memory items, no analysis. |
| 49 | H | 2.5 | | | | | | | | | | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | |
| 50 | F | 2.0 | | | | | | | | | | | | S | |
| 51 | F | 2.0 | | | | | | | | | | | | S | |
| 52 | H | 2.0 | | | | | | | | | | | | E | Put in column format. |
| 53 | H | 2.0 | | | | | | | | | | | x | E | Put in column format |
| 54 | H | 2.0 | | | | | | | | | | | | E | Put in column format; put stem in past tense. |
| 55 | F | 2.0 | | | | | | | | | | | | E | Re-word the stem to reduce confusion. |
| 56 | F | 2.0 | | | | | | | | | | | | E | Put in column format |
| 57 | F | 2.0 | | | | | | | | | | | | S | |
| 58 | H | 2.5 | | | | | | | | | | | x | E | Remove "Postulated Scenario, quiet" answer doesn't fully answer question, reword d. to answer question, not make statement. |
| 59 | H | 2.0 | | | | | | | | | | | | E | Put in column format.  Do you really have 300 cps with the head removed? |
| 60 | F | 2.0 | | | | | | | | | | | | S | |
| 61 | F | 2.5 | | | | | | | | | | x | | U | K/A is generic valve lineup. Q is specific to the RCIC system. |
| 62 | H | 2.5 | | | | | | | | | | | | U | If tech specs are provided, direct look-up.  If no tech specs, not required to be memorized. |
| 63 | H | 2.5 | | | | | | | | | | | | S | |
| 64 | F | 2.0 | | | | | | | | | | | | S | |
| 65 | F | 2.5 | | | | | | | | | | | | S | |
| 66 | F | 2.0 | | | | | | | | | | | x | S | |
| 67 | F | 2.0 | | | | | | | | | | | | S | |
| 68 | F | 2.5 | | | | | | | | | | | x | U | ROs would be required to know this material from memory. |

| 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 | | |
| 88 | H | 2.5 | | | | | | | | | | | x | E | Put in column format |
| 89 | F | 2.0 | | | | | | | | | | | | S | |
| 91 | (H)F | 2.0 | | | | | | | | | | | | U | Answer is memorized information |
| 92 | (H)F | 2.5 | | | | | | | | | | | | U | Material is not required to be memorized (steps from a procedure). Put in column format. |
| 93 | (H)F | 2.5 | | | | | | | | | | | | U | Answer is memorized information |
| 94 | F | 2.5 | | | | | | | | | | | | E | Put in column format |
| 95 | H | 3.0 | | | | | | | | | | | x | E | Put in column format |
| 96 | (H)F | 2.0 | | | | | | | | | | | x | E | Put in column format |
| 96.1 | F | 2.0 | | | | | | | | | | | | S | |
| 97 | H | 2.5 | | | | | | | | | | | | S | |
| 98 | (H)F | 2.0 | | | | | | | | | | | x | U | Answer is memorized information and not SRO ONLY (system info, not tech spec LCO Basis) Put in column format |
| 99 | H | 2.0 | | | | | | | | | | | | S | |
| 100 | H | 2.0 | | | | | | | | | | | | S | |
| 100.1 | H | 2.0 | | | | | | | | | | | x | S | |
| 101 | H | 2.5 | | | | | | | | | | | | S | |
| 102 | F | 2.0 | | | | | | | | | | | x | S | |
| 103 | H | 2.0 | | | | | | | | | | | | E | Put in column format |
| 104 | F | 2.0 | | | | | | | | | | | | S | |
| 105 | (F)H | 2.0 | | | | | | | | | | | | U | Analysis required to arrive at conclusion |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | |
| 106 | (F)H | 2.5 | | | | | | | | | | | | U | Analysis required to arrive at conclusion |
| 107 | H | 2.5 | | | | | | | | | | | x | U | Not SRO ONLY, ROs are responsible for EOP Basis. Put in column format |
| 108 | F | 2.0 | | | | | | | | | | | | S | |
| 109 | H | 2.0 | | | | | | | | | | | x | U | Not SRO ONLY, ROs are responsible for EOP Basis. |
| 110 | F | 2.0 | | | | | | | | | | | x | E | Plant conditions are unnecessary. |
| 111 | H | 2.0 | | | | | | | | | | | | S | |
| 112 | F | 2.0 | | | | | | | | | | | | S | |
| 113 | F | 2.0 | | | | | | | | | | | | U | Put in column format. Tests group 5 info - See Q #29. |
| 114 | (H)F | 3.0 | | | | | | | | | | | x | U | Answer is memorized information |
| 115 | (F)H | 2.0 | | | | | | | | | | | | U | Analysis required to arrive at conclusion |
| 116 | F | 2.0 | | | | | | | | | | | | S | |
| 117 | F | 2.0 | | | | | | | | | | | x | E | Put in column format |
| 118 | H | 2.0 | | | | | | | | | | | x | S | |
| 118.1 | H | 2.5 | | | | | | | | | | | | S | |
| 119 | F | 2.0 | | | | | | x | | | | | | U | ROs not required to be knowledgeable of LCO time limitations. |
| 120 | H | 3.0 | | | | | | | | | | | | S | |
| 121 | H | 2.5 | | | | | | | | | | | x | U | Not SRO ONLY, ROs are responsible for EOP Basis. |
| 121.1 | H | 3.5 | | | | | | | | | | | | S | |
| 122 | H | 2.5 | | | | | | | | | | | | S | |
| 123 | F | 2.0 | | | | | | | | | | | | E | Put in column format |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/ units | Back-ward | Q= K/A | SRO Only | | |
| 123.1 | F | 2.0 | | | | | | | | | | | | S | |
| 124 | H | 2.5 | | | | | | | | | | | | S | |
| 125 | F | 2.0 | | | | | | | | | | | | S | |
| 126 | H | 2.0 | | | | | | | | | | | | S | |
| 127 | H | 2.0 | | | | | | | | | | | | S | |
| 127.1 | H | 2.0 | | | | | | | | | | | x | U | Not SRO ONLY, ROs are required to know EOP Basis. Put in column format |
| 128 | H | 2.0 | | | | | | | | | | | x | S | |