

| 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 | 2 | | | | | | | | | | Y | N | B | S | 2010 NRC |
| 2 | F | 3 | | | | | | | | | | Y | N | N | S | |
| 3 | F | 3 | | | | | | | | | | Y | N | B | S | 2010 NRC |
| 4 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 5 | H | | | | | | | | | | | Y | N | N | S | |
| 6 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 7 | F | 2 | | | | | | | | | | Y | N | B | E | 2009 NRC ENHANCEMENT TO RAISE LOD |
| 8 | H | 3 | | | | | | | | | | Y | N | N | 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).

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|----|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|-----------|----------|----------|----------|----------|----------------|---------------------------------------------|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Back-ward | Q=K/A | SRO Only | | | | |
| 9 | H | 3 | | | | | | | | | | | Y | N | N | S | |
| 10 | H | 3 | | | | | | | | | | | Y | N | N | S | EDITORIAL ENHANCEMENT |
| 11 | H | 2 | | | | | | | | | | | Y | N | B | S | |
| 12 | H | | | | | | | | | | | | Y | N | N | S | |
| 13 | H | 3 | | | | | | | | | | | Y | N | B | S | 2012 NRC |
| 14 | H | | | | | | | | | | | | Y | N | B | U | REPLACE K/A, OVERLAP WITH JPM #7 |
| 15 | H | 2 | | | | | | | | | | | Y | N | N | S | |
| 16 | H | 2 | | | | | | | | | | | Y | N | N | S | |
| 17 | F | 2 | | | | | | | | | | | Y | N | N | S | |
| 18 | F | 2 | | | | X | | | | | | | Y | N | M | E | ENHANCED DISTRACTER 'C' |
| 19 | H | 3 | | | | | | | | | | | Y | N | B | S | |
| 20 | H | 3 | | | | | | | | | | | Y | N | N | S | |
| 21 | H | 2 | | | | | | | | | | | Y | N | B | E | CORRECTED IMPLAUSIBLE DISTRACTER |
| 22 | H | 3 | | | | X | | | | | | | Y | N | N | E | ENHANCED DISTRACTER |
| 23 | H | 3 | | | | | | | | | | | Y | N | N | E | ENHANCED STEM TO PRECLUDE 2 CORRECT ANSWERS |
| 24 | F | 3 | | | | | | | | | | | Y | N | B | S | 2013 NRC |
| 25 | F | 3 | | | | | | | | | | | Y | N | N | S | |
| 26 | F | 2 | | | | | | | | | | | Y | N | M | S | |
| 27 | F | 3 | | | | | | | | | | | Y | N | B | S | |
| 28 | H | 4 | | | | | | | | | | | Y | N | N | S | |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Back-ward | Q=K/A | SRO Only | | | | |
| 29 | F | 3 | | | | | | | | | | | Y | N | B | S | 2012 NRC |
| 30 | H | 3 | | | | | | | | | | | Y | N | B | S | 2005 NRC |
| 31 | F | 3 | | | | | | | | | | | Y | N | B | S | |
| 32 | F | 2 | | | | X | | | | | | | Y | N | B | E | ENHANCED DISTRACTER |
| 33 | F | 3 | | | | | | | | | | | Y | N | B | S | 2009 NRC |
| 34 | H | 3 | | | | | | | | | | | Y | N | N | S | |
| 35 | H | 2 | | | | X | | | | | | | Y | N | B | S | 2010 NRC IMPROVED JUSTIFICATIONS |
| 36 | H | 3 | | | | | | | | | | | Y | N | B | E | 2010 NRC |
| 37 | H | 3 | | | | | | | | | | | Y | N | N | S | |
| 38 | H | 3 | | | | | | | | | | | Y | N | N | S | |
| 39 | F | 2 | | | | X | | | | | | | Y | N | N | E | CHANGED DISTRACTER 'B' |
| 40 | F | 4 | | | | | | | | | | | Y | N | B | E | CLEANED UP CAPABILITY CURVE |
| 41 | F | 3 | | | | | | | | | | | Y | N | B | S | |
| 42 | F | 3 | | | | X | | | | | | | Y | N | B | E | ENHANCED DISTRACTER 'C' |
| 43 | H | | | | | | | | | | | | Y | N | B | E | ENHANCED STEM |
| 44 | H | 3 | | | | | | | | | | | Y | N | N | S | |
| 45 | H | 3 | | | | | | | | | | | Y | N | N | E | ENHANCED STEM |
| 46 | F | 2 | | | | | | | | | | | Y | N | N | E | ENHANCED ANSWER MATRIX |
| 47 | F | 2 | | | | | | | | | | | Y | N | B | E | ENHANCED DISTRACTERS AND JUSTIFICATIONS |
| 48 | H | 3 | | | | | | | | | | | Y | N | N | S | |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Back-ward | Q=K/A | SRO Only | | | |
| 49 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 50 | F | 2 | | | | | | | | | | Y | N | N | E | MODIFY STEM. Requires SRO review |
| 51 | F | 2 | | | | | | | | | | Y | N | N | E | ENHANCED STEM |
| 52 | F | 3 | | | | | | | | | | Y | N | B | S | |
| 53 | F | 3 | | | | | | | | | | Y | N | N | S | |
| 54 | H | 3 | | | | | | | | | | Y | N | N | S | K/A JUSTIFICATION ENHANCED |
| 55 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 56 | H | 2 | | | | | | | | | | Y | N | N | S | |
| 57 | F | 3 | | | | | | | | | | Y | N | B | S | 2010 NRC |
| 58 | H | 2 | | | | | | | | | | Y | N | N | S | |
| 59 | H | 3 | | | | | | | | | | Y | N | B | E | ENHANCED STEM |
| 60 | H | 3 | | | | | | | | | | Y | N | B | S | 2005 NRC |
| 61 | H | 3 | | | | | | | | | | Y | N | B | S | |
| 62 | H | 2 | | | | X | | | | | | Y | N | N | E | MULTIPLE IMPLAUSIBLE DISTRACTERS |
| 63 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 64 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 65 | H | 4 | | | | | | | | | | Y | N | N | S | |
| 66 | F | 2 | | | | | | | | | | Y | N | B | E | ENHANCED STEM |
| 67 | F | 3 | | | | | | | | | | Y | N | B | S | 2010 NRC |
| 68 | H | 3 | | | | | | | | | | Y | N | B | S | 2010 NRC |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Back-ward | Q=K/A | SRO Only | | | |
| 69 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 70 | F | 3 | | | | | | | | | | Y | N | M | S | 2010 NRC |
| 71 | H | 2 | | | | | | | | | | Y | N | B | S | 2009 NRC |
| 72 | H | 3 | | | | | | | | | | Y | N | N | S | |
| 73 | F | 2 | | | | | | | | | | Y | N | N | S | SENSITIVE INFO WITHHOLD Q |
| 74 | F | 3 | | | | | | | | | | Y | N | N | S | |
| 75 | F | 2 | | | | | | | | | | Y | N | B | S | 2012 NRC |
| 76 | H | 3 | | | | | | | | | | Y | Y | B | S | 2014 NRC |
| 77 | H | 3 | | | | | | | | | | Y | Y | N | S | |
| 78 | F | 2 | | | | | | | | | | Y | Y | B | S | |
| 79 | H | 3 | | | | | | | | | | Y | Y | N | S | |
| 80 | H | 2 | | | | | | | | | | Y | Y | B | E | REARRANGED DISTRACTERS |
| 81 | F | 3 | | | | | | | | | | Y | Y | B | S | 2009 NRC |
| 82 | H | 2 | | | | | | | | | | Y | Y | N | S | |
| 83 | H | 4 | | | | | | | | | | Y | Y | N | S | |
| 84 | H | 2 | | | | | | | | | | Y | Y | N | E | ENHANCED STEM |
| 85 | H | 3 | | | | | | | | | | Y | Y | N | S | |
| 86 | H | 3 | | | | | | | | | | Y | Y | N | S | |
| 87 | H | 2 | | | | | | | | | | Y | Y | N | S | |
| 88 | F | 2 | | | | | | | | | | Y | Y | N | S | |

