

CALLAWAY 7/2002

| 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 | Backward | Q=K/A | SRO Only | | |
| R1 | F | 2 | | | | | | | | | | | | S | † |
| R2 | F | 2 | | | | | | | | | | | | S | |
| R3 | F | 3 | | | | | | | | | | | | S | |
| R4 | F | 3 | | | | | | | | | | | | S | † |
| R5 | H | 3 | | | | | | | | | | | | S | |
| R6 | F | 3 | | | | | | | | | | | | S | |
| R7 | H | 3 | | | | | | | | | | | | S | |
| R8 | H | 3 | | | | | | | | | | | | S | |
| R9 | F | 3 | | | | | | | | | | | | S | |
| R10 | H | 3 | | | | | | | | | | | | 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.
 - 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).
- 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)nacceptable (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 | Backward | Q=K/A | SRO Only | | |
| R11 | H | 3 | | | | | | | | | | | | S | |
| R12 | H | 3 | | | | | | | | | | | | S | |
| R13 | H | 3 | | | | | | | | | | | | S | |
| R14 | H | 3 | | | | | | | | | | | | S | † |
| R15 | F | 3 | | | | | | | | | | | | S | |
| R16 | F | 3 | | | | | | | | | | | | S | |
| R17 | F | 3 | | | | | | | | | | | | S | |
| R18 | F | 3 | | | | | | | | | | | | S | |
| R19 | H | 3 | | | | | | | | | | | | S | |
| R20 | H | 3 | | | | | | | | | | | | S | † |
| R21 | F | 2 | | | | | | | | | | | | S | |
| R22 | F | 2 | | | | | | | | | | | | S | |
| R23 | F | 4 | | | | | | | | | | | | S | † |
| R24 | F | 3 | | | | | | | | | | | | S | |
| R25 | F | 3 | | | | | | | | | | | | S | |
| S1 | F | 3 | | | | | | | | | | | | S | |
| S2 | F | 3 | | | | | | | | | | | | S | Reference in stem should be to step 5 of FR-S.1 |
| S3 | F | 3 | | | | | | | | | | | | S | † |
| S4 | F | 3 | | | | | | | | | | | | S | |
| S5 | H | 3 | | | | | | | | | | | | S | |
| S6 | H | 3 | | | | | | | | | | | | S | † |
| S7 | F | 3 | | | | ✓ | | | | | | | | E | Provide a lower RWST level for Distractor D |

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|-----|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|----------|----------|----------|----------|----------------|--|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | Q=K/A | SRO Only | | | |
| S8 | F | 3 | | | | | | | | | | | | S | † | |
| S9 | F | 3 | | | | | | | | | | | | S | | |
| S10 | H | 3 | | | | | | | | | | | | S | | |
| S11 | H | 3 | | | | | | | | | | | | S | | |
| S12 | F | 3 | | | | | | | | | | | | S | | |
| S13 | F | 3 | | | | | | | | | | | | S | | |
| S14 | H | 3 | | | | | | | | | | | | S | | |
| S15 | H | 4 | | | | | | | | | | | | S | † | |
| S16 | F | 3 | | | | | | | | | | | | S | | |
| S17 | F | 3 | | | | | | | | | | | | S | † | |
| S18 | F | 3 | | | | | | | | | | | | S | | |
| S19 | F | 3 | | | | | | | | | | | | S | | |
| S20 | H | 3 | | | | | | | | | | | | S | | |
| S21 | F | 3 | | | | | | | | | | | | S | | |
| S22 | F | 3 | | | | | | | | | | | | S | | |
| S23 | F | 3 | | | | | | | | | | | | S | | |
| S24 | H | 3 | | | | | | | | | | | | S | | |
| S25 | F | 2 | | | | | | | | | | | | S | | |
| B1 | H | 3 | | | | | | | | | | | | S | | |
| B2 | F | 3 | | | | | | | | | | | | S | | |
| B3 | H | 3 | | | | | | | | | | | | S | † | |
| B4 | H | 3 | | | | | | | | | | | | S | | |
| B5 | H | 3 | | | | | | | | | | | | S | | |
| B6 | F | 3 | | | | | | | | | | | | S | | |
| B7 | H | 3 | | | | | | | | | | | | S | | |
| B8 | H | 2 | | | | | | | | | | | | S | | |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | Q=K/A | SRO Only | | |
| B9 | H | 3 | | | | | | | | | | | | S | |
| B10 | H | 3 | | | | | | | ✓ | | | | | S | † Where is expectation that students know battery capacity? |
| B11 | F | 3 | | | | | | | | | | | | S | |
| B12 | F | 3 | | | | | | | | | | | | S | |
| B13 | H | 3 | | | | | | | | | | | | S | |
| B14 | F | 3 | | | | | | | | | | | | S | |
| B15 | F | 3 | | | | | | | | | | | | S | |
| B16 | F | 3 | | | | | | | | | | | | S | |
| B17 | H | 3 | | | | | | | | | | | | S | † |
| B18 | H | 3 | | | | | | | | | | | | S | |
| B19 | H | 3 | | | | | | | | | | | | S | |
| B20 | H | 3 | | | | | | | | | | | | S | † |
| B21 | H | 3 | | | | | | | | | | | | S | † |
| B22 | F | 3 | | | | | | | | | | | | S | |
| B23 | F | 3 | | | | | | | | | | | | S | |
| B24 | H | 3 | | | | | | | | | | | | S | |
| B25 | H | 3 | | | | | | | | | | | | S | |
| B26 | H | 3 | | | | | | | | | | | | S | |
| B27 | H | 3 | | | | | | | | | | | | S | † |
| B28 | H | 3 | | | | | | | | | | | | S | † |
| B29 | H | 3 | | | | | | | | | | | | S | |
| B30 | F | 3 | | | | | | | | | | | | S | |
| B31 | F | 3 | | | | | | | | | | | | S | |
| B32 | H | 3 | | | | | | | | | | | | S | |
| B33 | H | 3 | | | | | | | | | | | | S | |
| B34 | H | 3 | | | | | | | | | | | | S | † |

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| B35 | H | 3 | | | | | | | | | | | | E | Clarify Distractor C and Answer D to indicate this alarm comes in after subsequent inward rod movement. One is led to believe that the alarm is recieved as a result of the rod recovery. |
| B36 | H | 3 | | | | | | | | | | | | S | |
| B37 | H | 3 | | | | | | | | | | | | S | † |
| B38 | H | 4 | | | | | | | | | | | | S | † |
| B39 | H | 3 | | | | | | | | | | | | S | |
| B40 | H | 3 | | | | | | | | | | | | S | |
| B41 | H | 3 | | | | | | | | | | | | S | |
| B42 | H | 3 | | | | | | | | | | | | S | |
| B43 | H | 3 | | | | | | | | | | | | S | |
| B44 | H | 3 | | | | | | | | | | | | S | † |
| B45 | H | 2 | | | | | | | | | | | | S | |
| B46 | F | 3 | | | | | | | | | | | | S | |
| B47 | F | 2 | | | | | | | | | | | | S | |
| B48 | F | 3 | | | | | | | | | | | | S | † |
| B49 | H | 3 | | | | | | | | | | | | S | |
| B50 | F | 3 | | | | | | | | | | | | S | |
| B51 | H | 3 | | | | | | | | | | | | S | |
| B52 | H | 4 | | | | | | | | | | | | S | † |
| B53 | H | 4 | | | | | | | | | | | | E | † Containment pressure @ 10 psig and increasing 1 psig per minute does not appear to be consistent with CSAS @ 27 psig. Clarify initial conditions and subsequent pressure increase. |
| B54 | F | 3 | | | | | | | | | | | | S | |
| B55 | H | 3 | | | | | | | | | | | | S | † |
| B56 | H | 3 | | | | | | | | | | | | S | |
| B57 | H | 3 | | | | | | | | | | | | S | |
| B58 | H | 3 | | | | | | | | | | | | S | |

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| B59 | F | 3 | | | | | | | | | | | | S | |
| B60 | H | 3 | | | | | | | | | | | | S | |
| B61 | F | 2 | | | | | | | | | | | | S | † |
| B62 | H | 3 | | | | | | | | | | | | S | † |
| B63 | F | 3 | | | | | | | | | | | | S | |
| B64 | F | 2 | | | | | | | | | | | | S | |
| B65 | H | 3 | | | | | | | | | | | | S | † |
| B66 | F | 2 | | | | | | | | | | | | S | † |
| B67 | F | 3 | | | | | | | | | | | | S | |
| B68 | F | 2 | | | | | | | | | | | | S | |
| B69 | F | 3 | | | | | | | | | | | | S | |
| B70 | F | 2 | | | | | | | | | | | | S | |
| B71 | F | 2 | | | | | | | | | | | | S | † |
| B72 | F | 3 | | | | | | | | | | | | S | |
| B73 | H | 3 | | | | | | | | | | | | S | |
| B74 | H | 3 | | | | | | | | | | | | S | |
| B75 | H | 3 | | | | | | | | | | | | S | |

†Reviewed as part of initial 30 question sample