

| Q# | 1.<br>LOK<br>(F/H) | 2.<br>LOD<br>(1-5) | 3. Psychometric Flaws |      |     |                |         | 4. Job Content Flaws |         |             |               | 5. Other  |             | 6.<br>U/E/S | 7.<br>Explanation |
|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|-------------------|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |                   |
| 1  | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 2  | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 3  | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 4  | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 5  | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 6  | F                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 7  | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 8  | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |

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|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|--|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |  |
| 9  | F                  | 1                  |                       |      |     |                |         |                      |         |             |               | X         |             | U           | Give indications, ask implications/actions - fixed |
| 10 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 11 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 12 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 13 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 14 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 15 | F                  | 3                  |                       |      |     | X              |         |                      |         |             |               |           |             | U           | C, D implausible due to "uprange" fixed            |
| 16 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Capitalize LOOP                                    |

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|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |                              |
| 17 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |
| 18 | F                  | 1                  |                       |      |     | X              |         |                      |         |             |               |           |             | U           | B,C implausible – reworked Q |
| 19 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |
| 20 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |
| 21 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |
| 22 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |
| 23 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |
| 24 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                              |

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|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|---|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |   |
| 25 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           |   |
| 26 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |   |
| 27 | F                  | 2                  |                       |      |     | X              |         |                      |         |             |               |           |             | U           | C,D implausible - fixed                               |
| 28 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Wrong answer in key                                   |
| 29 | F                  | 1                  |                       |      |     |                |         |                      |         |             |               |           |             | U/S         | Accept as adequate based on 2 validators got it wrong |
| 30 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |   |
| 31 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |   |
| 32 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |   |

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|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|--|
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| 33 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 34 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 35 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Provide noun name for light                              |
| 36 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Say "is bypassed"; action accomplished, not just ordered |
| 37 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 38 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 39 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 40 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |

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| 41 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | spelling          |
| 42 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Need SP level     |
| 43 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | spelling          |
| 44 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 45 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | X         |             | U           | replaced          |
| 46 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | X         |             | U           | replaced          |
| 47 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | E           |                   |
| 48 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |

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| 50 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | U           | Overlaps scenario event, modified |
| 51 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                                   |
| 52 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                                   |
| 53 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                                   |
| 54 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                                   |
| 55 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                                   |
| 56 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Capitalize U                      |

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| 58 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Second bullet  |
| 59 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | spelling   |
| 60 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 61 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | X         |             | U           | reworked   |
| 62 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 63 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |  |
| 64 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | alignment  |
| 65 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Say "release pathe", not "status of activity levels" |

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- 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).



| Q# | 1.<br>LOK<br>(F/H) | 2.<br>LOD<br>(1-5) | 3. Psychometric Flaws |      |     |                |         | 4. Job Content Flaws |         |             |               | 5. Other  |             | 6.<br>U/E/S | 7.<br>Explanation             |
|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|-------------------------------|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |                               |
| 66 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 67 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | U           | Subset A, add "only" -, fixed |
| 68 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 69 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 70 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 71 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 72 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 73 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 74 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |
| 75 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                               |

## Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

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- 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).
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  - 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).

| Q# | 1.<br>LOK<br>(F/H) | 2.<br>LOD<br>(1-5) | 3. Psychometric Flaws |      |     |                |         | 4. Job Content Flaws |         |             |               | 5. Other  |             | 6.<br>U/E/S | 7.<br>Explanation |
|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|-------------------|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |                   |
| 76 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 77 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 78 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 79 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 80 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | 43.4              |
| 81 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 82 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
| 83 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               | X         |             | U           | fixed             |

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| Q# | 1.<br>LOK<br>(F/H) | 2.<br>LOD<br>(1-5) | 3. Psychometric Flaws |      |     |                |         | 4. Job Content Flaws |         |             |               | 5. Other  |             | 6.<br>U/E/S | 7.<br>Explanation     |
|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|-----------------------|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |                       |
| 84 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                       |
| 85 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                       |
| 86 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           | X           | U           | System only - fixed   |
| 87 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                       |
| 88 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                       |
| 89 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           | Cross unit components |
| 90 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                       |
| 91 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                       |

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|----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|----------------------|
|    |                    |                    | Stem<br>Focus         | Cues | T/F | Cred.<br>Dist. | Partial | Job-<br>Link         | Minutia | #/<br>units | Back-<br>ward | Q=<br>K/A | SRO<br>Only |             |                      |
| 92 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               | X         |             | U           | rewrite              |
| 93 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                      |
| 94 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                      |
| 95 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                      |
| 96 | F                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                      |
| 97 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | capitalization       |
| 98 | F                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | E           | Increase LOD - fixed |
| 99 | H                  | 2                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                      |

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|-----|--------------------|--------------------|-----------------------|------|-----|----------------|---------|----------------------|---------|-------------|---------------|-----------|-------------|-------------|-------------------|
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| 100 | H                  | 3                  |                       |      |     |                |         |                      |         |             |               |           |             | S           |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
|     |                    |                    |                       |      |     |                |         |                      |         |             |               |           |             |             |                   |
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