ASNT Level III Study Guide: Magnetic Particle Testing Method

Text Corrections

The following text corrections apply to the first printing of ASNT Level III Study Guide: Magnetic Particle Testing Method second edition. Subsequent printings of the document will incorporate the corrections into the published text.

- **Page 8**: In left column, last paragraph, fourth sentence should read: "The <u>external</u> strength of the field is directly proportional to the current flow ...
- **Page 10**: In Question 2.11, Figure 2.8 should be changed to Figure 2.6.
- Page 14: Left column, last paragraph, last sentence should read: "The induced field is longitudinal."
- Page 17: Left column, second paragraph, second sentence should read: "Circular magnetization is produced either by passing a current directly through the part (direct magnetization) or by passing current through a central conductor running through a hollow part (indirect magnetization)." Figure 4.1 shows direct circular magnetization and Figure 4.2 shows indirect circular magnetization.
- **Page 18**: Right column, first full paragraph and last paragraph, replace Equations 11 and 12 with "Equations 10 and 11"
 - Right column, first full paragraph, second sentence should read: "These formulas hold only if the L/D is 2 to 15, inclusive."
- Page 24: Change to: Figure 4.17: Longitudinal magnetization of rings.
- **Page 27**: Second paragraph, should read: "With the yoke positioned as shown in Figure 4.22(a), the magnetization eircular or is perpendicular to the axis of the weld. With the prods positioned as shown in Figure 4.22 (c), the magnetization is longitudinal or parallel to the axis... as illustrated in Figure 4.22 (b), and rotated about 90 degrees..."
- Page 29: Questions 4.11 should read: "The internal magnetic field at the surface..."
- **Page 37:** Left column, the last sentence should read: "The shot timer is typically adjustable and set from 0.5 s to 1.0s, though it is usually set between 0.6 s and 0.9 s."
- **Page 39**: Under the subhead Ultraviolet Light, the third sentence should read: "The lamp provides high-intensity light with a wide spectral range that includes several spectral lines in the <u>ultraviolet</u> region...

- Page 39: Second column, insert at the beginning of the first full paragraph: "The intensity to be used is determined by code or specification. The referencing document is required to determine correct intensity."
- Page 41: Delete Question 6.3.

In Question 6.11, answer c. should be replaced by "c. 1.0 s to 1.5 s.

- Page 42: Reword Question 6.21 to read; "When using an ultraviolet light, ambient light:"
- **Page 55**: Under the subhead Surface Treatment, the second sentence should read: "For field inspections and overhaul, and repair very thick hard surface oxides..."
- Page 59: Delete Question 8.35.
- Page 64: Delete Question 9.10.
- **Page 39**: Reword Question 9.19 to read: A subsurface indication is located <u>just outside the</u> weld in the parent metal. This discontinuity is most likely related to:
- Page 72: In Question 11.1, reword answer d. to read: "annually or as otherwise specified."
- Page 66: Delete Question 9.30.

Question 4.8: The answer is c.

Question 4.20: The answer is b.

Question 4.26: The answer is b.

Ouestion 5.1: The answer is a.

Ouestion 6.21: The answer is d.

Question 9.15: the answer is a.

Question 9.22: the answer is c.

Question 9.26: The answer is d.

Question 9.29: The answer is b.

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