

# *Level III Study Guide: Visual and Optical Testing Method*

## **Text Corrections**

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The following text corrections apply to the first printing of *Level III Study Guide: Visual and Optical Testing Method*. Subsequent printings of the document will incorporate the correction into the published text.

- Page 11:** Last sentence in left column should read, “Eventually, the excited ~~atom~~ electron moves back into the original orbit or into another lower energy, more stable orbit.”
- Page 12:** Last sentence in right column should read, “The difference is that in the coherent light producing material, the excited ~~atoms~~ electrons ...”
- Page 14:** Second sentence of third complete paragraph in the left column should read, “Snell defined the index of refraction as being equal to the ratio of the sine of incidence to the angle of refraction.”
- Page 27:** First sentence under “Color Vision” should read, “Color is detected in the eye by the ~~rods~~ cones concentrated at the fovea centralis.”
- Page 31:** First sentence under the heading “Lenses” should read, “A lens is a device that converges or disperses light by ~~diffraction~~ refraction.”
- Page 31:** Second sentence in first full paragraph in the right column should read, “The principle focus or focal plane is where parallel incident light rays converge after being ~~diffracted~~ refracted.”
- Page 33:** The last two paragraphs in the right column and equation 12 should be contained in a separate section called “F-number.” They are NOT part of the discussion on prisms.
- Page 36:** Third sentence in second full paragraph of the right column should read, “Typical ~~pixels~~ pixel arrays measure 25 mm (1 in.) square.”
- Page 50:** Question 10, answer (a) should be changed to read “the temperature at which a ~~graybody~~ blackbody must be operated to match the spectral emissivity of a light source.”
- Page 51:** Question 21, the answer should be (d) not (b).
- Page 51:** Question 25, the answer should be (d) not (b).
- Page 52:** Question 31, answer (a) should read “ $C = (L_g - L_1)/L_g$ ”

**Page 73:** Question 5, the answer should be (a) not (b).

**Page 74:** question 10, the answer should be (c) not (b).

**Page 80:** Last sentence in the left column should read, “This is not an acceptable amount of light for inspection because this line can be detected by the unaided eye when there is less than ~~0.1 lx (1 ftc)~~ 1 lx (0.1 ftc) of light at a distance of about 610 mm (24 in.). A minimum of ~~5 lx (50 ftc)~~ 50 lx (5 ftc) is recommended ...”

**Page 93:** Question 23, answer (b) should be changed to read, “~~forming~~ eliminating anodes and cathodes in different areas of the metal crystals.”

**Page 105:** Question 5, the answer should be (d) not (a).

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