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PE Civil
Exam Review Guide, Volume 1

Errata

(Updated 2/17/23)

This page will be updated regularly.

CHAPTER 1: Project Planning

(1) 1-27: In Section 1.4.1 – Activity Parameters, the Late Finish abbreviation should be LF not FS

(2) 1-27: In Section 1.4.1.1 – Activity Parameter Equations, the Late Finish abbreviation should be LF not FS

CHAPTER 2: Means and Methods

(1) p. 2-6: In the solution of Example 2.2, there is an error. See correction in red below.

Case 1 (Uniformly Distributed Load):

$$M_{\text{Max}} = \frac{wl^2}{8}; M_{\text{Max}} = \frac{800 \text{ lbf/ft } (4 \text{ ft})^2}{8} = 1{,}600 \text{ ft-lb}$$

(2) p. 2-15: In Example 2.9, the answer should be marked C, not B.

(3) p. 2-16: In Example 2.10, there is a correction to the question prompt. See in red below.

Example 2.10: Equipment Production

An earthwork excavation operation is under contract to transport a quantity of 3,000 yd^3 of earthen material. The operations crew consists of an excavator, a loader, and dump trucks that will work in tandem. Productivity for the crew is as follows:

- 1 excavator production of 200 yd^3/day
- 1 loader production of 250 yd^3/day
- 3 dump trucks moving a total amount of 150 yd^3/day

Which of the following additional resources will result in a reduction to the baseline schedule?

A. 1 excavator
B. 1 loader
C. 2 loaders
D. 1 dump truck

CHAPTER 3: Soil Mechanics

(1) p. 3-25: Equation 3-44 contains some errors. See corrections in red below.

$$q = \gamma D_1 + \gamma' (D_1 - D_2)$$ **Equation 3-44**

CHAPTER 5: Hydraulics and Hydrology

(1) p. 5-81. In Equation 5-78, it should be a lower-case "d" in the list of variables.

CHAPTER 8: Site Development

(1) p. 8-14: Example 8.6 contains some errors in the Answers section. See corrections in red below.

Answers:

1. The earthwork is not balanced. It requires a net import of 718.1 yd^3 (fill).
2. Fill. The amount of fill material required by the proposed design is greater than the amount of material produced from the excavation (cut) operation.
3. Total fill – Total cut = 3,112.5 yd^3 – 2,394.4 yd^3 = 718.1 yd^3