

2020 Masters Exam Buster

Errata

The following five questions should be revised as follows!
Editions sold after December 5th of 2020 were corrected prior to shipping!

- 17) What is the maximum distance between supports for single conductor photovoltaic wire or cable or distributed generation cable located within cable trays outdoors?
- A. 8 feet
 - B. 10 feet
 - C. 6 feet
 - D. 4.5 feet

Q 17 said indoors at the end of the question. It should be "outdoors". Revise as shown.

- 40) What is the minimum size grounding electrode conductor required for 3/O service conductors where the grounding electrode conductor will jump between building steel and two ground rods driven six feet apart in the earth?
- A. 1/O
 - B. #4
 - C. #3
 - D. #6

Q 40 had a #2 in answer B which was incorrect, it is a #4. Revise as shown.

- 118) How many #3 THHW conductors that are not compact can be installed in a piece of 2" EMT?
- A. 11
 - B. 12
 - C. 26
 - D. 16

Q118 Answer B had the incorrect answer of 18. The correct answer is B, 12 conductors. Revise as shown.

- 148) A commercial store with a 120/208 volt service, has 75,000 va of continuous loads, and 25,000 va of non continuous loads, what size overcurrent protection device will be required for the service conductors?
- A. 250 amps
 - B. 300 amps
 - C. 350 amps
 - D. 400 amps
- 148) 230.42 A / This question was amended on Dec 01 2020 due to an error
 $70,000 * 1.25 = 87,500 \text{ va}$
 $25,000 * 1 = 25,000 \text{ va}$
Total = 112,500 va
- $112,500 / (208 * 1.73) = 312.5 \text{ amps}$
- 240.4B allows the next higher standard OCPD = 350 amps
per Table 240.6A

Q 148 was missing the correct voltage (120/208) and the solution key had a math error. Revise as shown. Change 75,000 to 70,000 in question.

- 344) What size copper XHHW-2 conductor is required for a 250 amp electrical service installed at a dwelling rated 120/240 volt? The expected ambient temperature on the conductors will be 105 degrees Fahrenheit?
- A. 4/O
 - B. 250 kcmil
 - C. 3/O
 - D. 350 kcmil

Q 344 Correct answer B. Revise as shown.
