

## 2020 Journeyman Exam Buster

### Errata

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

- 102) 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 102 said indoors at the end of the question, it should be "outdoors". Revise as shown.

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- 188) What size XHHW-2 copper 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 188 Correct answer is B, not A. The type of wire insulation (XHHW-2) was also missing from the question. Revise as shown.

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- 274) 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

Q274 Answer B had the incorrect answer of 18. The correct answer is B, 12 conductors. Revise as shown.

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- 310) A commercial store with a 120.208 volt three phase 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

- 310) 230.42 A  
 $70,000 * 1.25 = 87,500 \text{ va}$   
 $25,000 * 1 = 25,000 \text{ va}$   
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 310 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

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- 339) 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 339 had a #2 in answer B which was incorrect, it is a #4. Revise as shown.

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