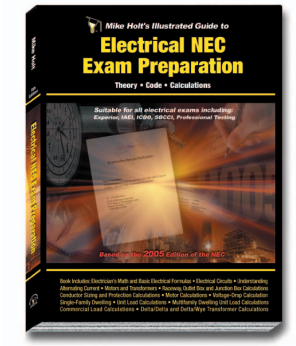
Mike Holt's Illustrated Guide
Electrical NEC Exam Preparation, 2005 Edition



Printed: May 2005
Last Correction Update: November 14, 2010

Click on the corrections listed below to go to the corrected page. Click anywhere on that page to return to this page

Textbook

Page #	Reference	Correction
14	Example Step 3	Remove second decimal point in "x 0.172.80" to "x 0.17280".
14	Figure 1-28	Changed to eliminate confusion of original wording "8.6 cents/1,000" to "8.6 cents per kWH".
17	Section 1.30	Last line of section was changed to: When making the series connection, if it connects to the positive terminal of the voltage source, use the red lead from the meter. If the series connection ends at the negative terminal of the voltage source instead of the positive terminal, use the black lead of the meter to connect to the negative terminal.
21	Question 16	"42" should be "4^2"
24	Question 43	Changed all the "ohms" in the multiple choice answers to "volts."
27	Question 14	Changed the total resistance from 12 ohms to 10.2 ohms.
72	Question 32	Change wording of question to: A 2-wire 120V circuit, from a 2-wire 120V system, contains _____. Delete "two" in answer (c).
72	Question 33	Add "two" in answer (c). Should be (c) two ungrounded conductors.
77	Question 1	Changed "ungrounded" to "grounded."
89	Question 22	Added the word "outdoor" before the word "HVAC" in choice (b).
90	Question 34	Reference to Table 220.19 should be Table 220.55.
90	Question 42	Reference to Table 220.19 should be Table 220.55.
95	Question 35	The reference to Chapter 4 should be Chapter 3.
113	Section 3.34	Step 2: 567W should be 576W. Rest of calculation is correct.
118	Question 4	Changed the words "rotating between" to "rotating across."
120	Question 24	Change multiple choice (c) from "divided by 1.41" to "divided by 2."
126	Question 1	Original question content was not covered in textbook. New question: Alternating current is primarily used because it can be transmitted inexpensively due to the ease of transforming to high-transmission voltage and then transforming this voltage back to low distribution voltage. (a) True (b) False
129	Questions 110-114	Questions 110-114 should be numbered 30-34.
137	Question 83	Added the word "required" between "is not" and "to be" so it reads: "is not required to be connected."
173	Header	Changed from "Articles 250 through 300" to "Articles 250 through 310".
176	Question 34	Reworded for clarity by adding to the end of the question this phrase: "instead of installing a bonding jumper."
183	Header	Changed from "Articles 250 through 300" to "Articles 250 through 310".

Click here for ANSWER KEY corrections.

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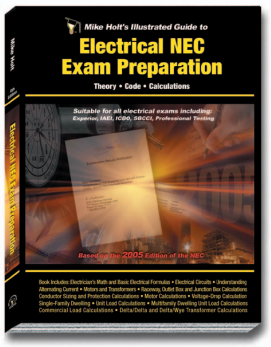
(continued)



Textbook

Click on the corrections listed below to go to the corrected page. Click anywhere on that page to return to this page

Page #	Reference	Correction
196	Figure 7-5	The superscript "2" was removed from the Internal Diameter dimension of the 2 in. EMT raceway, the correct diameter is 2.067 in.
229	Question 25	Changed "of not greater than 1 in." to "greater than 3/4 in. but not greater than 1 1/2 in."
234	Question 23	The *Code* reference should be 503.5.
235	Question 37	Changed Table reference from 220.19 to 220.55.
239	Table 310.16	Fahrenheit temperatures under the two 60ºC categories should be 140ºF not 40ºF.
292	Section 7.7	In the "Highest-Rated Motor" example, the FLC of the 3 hp, 208V motor should read: 18.7A instead of 18.75A.
292	Figure 7-17	The FLC of the 3 hp, 208V motor should read 18.7A instead of 17.8A.
365	Section 9.3	Changed first sentence to: Where calculations result in a fraction of less than 0.50A, such fractions can be dropped.
366	Figure 9-2	Changed to reflect change in text in Page 365 above.
366	Section 9.4	Code reference on line 3 should be 210.11, not 220.11.
367	Example 9.5 Note 1	Step 3, I = 8,800 VA/240, not 6,000 VA/240V.
376	Example 2	Changed unbalanced neutral load from 100A to 65A. Changed answer (c) "3/0 AWG and 2 AWG" to "3/0 AWG and 4 AWG". Changed information under Answer to: Service Conductor: 3/0 AWG rated 200A at 75ºC [110.14(C) and Table 310.16] Grounded Neutral Conductor: 6 AWG is rated 65A at 75ºC in accordance with Table 310.16, but 250.24(C) requires the grounded neutral conductor to be sized no smaller than 4 AWG based on 3/0 AWG service conductors in accordance with Table 250.66.
379	Section 9.12	Last sentence of Neutral not Over 200A: change 2/0 AWG to 1/0 AWG and change 1/0 AWG to 400 kcmil. [[Note: There is no link to this corrected page.]]
394	Question 41	Changed the word "approved" to "identified."
405	Question 49	The *Code* reference should be 503.10(A)(2).
422	10.5 Example 1	The waste disposal should be removed from the list of appliances.
486	Question 25	The multiple choice answer (b) 151 kVA should be changed to 162 kVA.
486	Question 32	Change answer choice of (b) from 450A to 400A.
488	Question 4	Change answer (d) from 15,000 VA to 20,000 VA.
489	Question 9	- Change the first group of sites from 3 to 9. (Click here to see corrected page.) - Change the third group of sites from 9 to 3. - Change answer (d) from 65 to 83.
548	Question 22	The first *Code* reference should be 501.10(B); the second should be 502.10(B).
561	Question 46	Question changed to: The grounding conductor for an antenna mast or antenna discharge unit shall be run to the grounding electrode in as straight a line as practicable.

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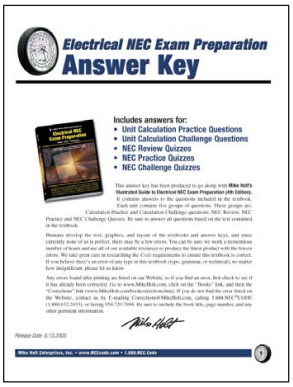

Answer Key

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Click on the corrections listed below to go to the corrected page. Click anywhere on that page to return to this page

IMPORTANT NOTICE

These page numbers are in regard to the answer key dated August 2005. We recommend you download a new answer key from http://www.mikeholt.com/answers.php so you will have the most current information regardless of the date on your answer key.

Page #	Reference	Correction
9	Question 26	First line of formula should read: I=VA/(E x $\sqrt{3}$)
20	Question 32	Answer (d) 220.84(C)(2) should be (d) 220.84(C)(1)
24	Question 1	Because question was changed (Textbook Page 126 correction), answer was changed to (a) True.
27	Answer 33	Reference should be changed from 820.133(D) to 820.133(C).
29	Answers 5,6,7,8	Answers need to be rearranged into new order: Previous answer 7 is now 5 (c) run the same as before Previous answer 8 is now 6 (b) False Previous answer 5 is now 7 (d) wound motor Previous answer 6 is now 8 (d) b or c
34	Answer 18	In Step 4, 3rd line, "0.211 sq in" should be "0.0211 sq in."
90	Answer 25	Answer (b) 151 kVA should be changed to (b) 162 kVA. The solution was changed. Click here to see corrected version.
92	Answer 32	Answer choice was changed from 450A to 400A. The answer is still (b).
94	Answer 4	Answer (d) changed from 15,000 VA to 20,000 VA. The solution was changed. Click here to see corrected version.
94	Answer 5	Answer was changed from (d) to (a) 162 kVA. The solution was changed. Click here to see corrected version.
94-95	Answer 9	Because of correction on Page 489 regarding Question 9, the Answer Key was revised. Please click here to specific.
101	Answer 41	Line 3, "2,000 VA" should be "22,000 VA".
108	Answer 44	Reference should be changed from 760.71(C) and (H) to 760.82(C) and (H).
110	Answer 48	Answer was changed to (a) Chapter 9, Table 1, Note 4.

Click here for TEXTBOOK corrections.