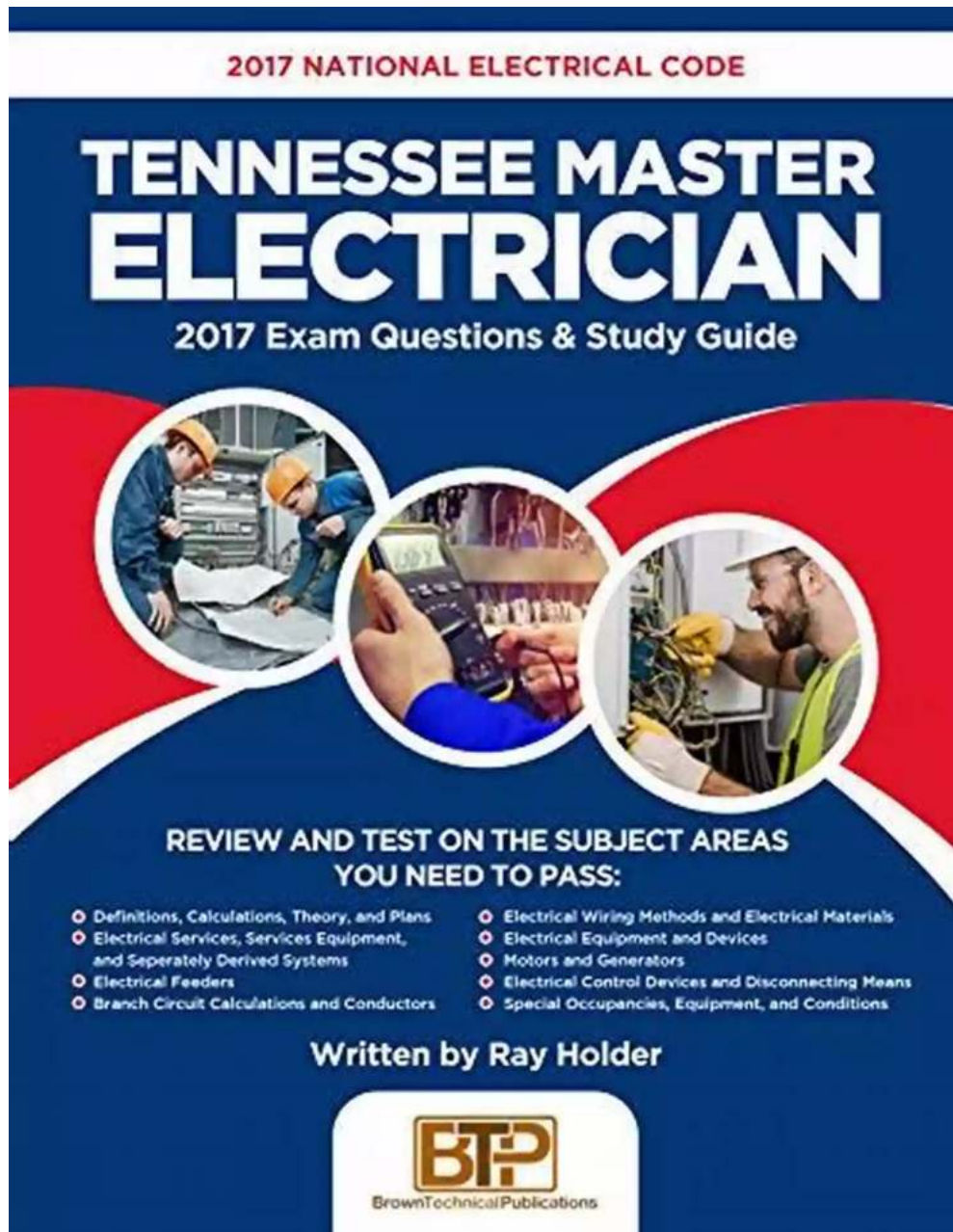


# Ultimate National Electrical Code Exam Questions Study Guide - Ace Your Test Like a Pro!

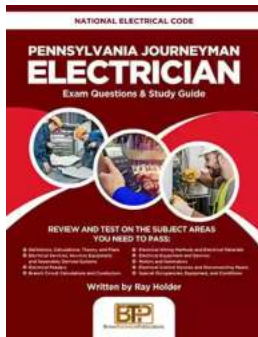


Welcome to the ultimate National Electrical Code (NEC) exam questions study guide! Whether you are preparing for your electrical licensing exam or just want

to broaden your knowledge of the NEC, this comprehensive guide will provide you with the tools and resources to ace your test. From detailed exam questions to valuable study tips, we've got you covered.

## The Importance of the National Electrical Code Exam

When it comes to electrical installations, safety is of paramount importance. That's where the National Electrical Code steps in. The NEC sets the minimum requirements for electrical design, installation, and inspection to ensure the safety of people and property. Therefore, passing the NEC exam is crucial for becoming a licensed professional in the electrical industry.



## Pennsylvania Journeyman Electrician: National Electrical Code Exam Questions & Study Guide

by DACO(Kindle Edition)

★★★★★ 5 out of 5

Language : English  
File size : 9379 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 428 pages



## Understanding the NEC Exam Structure

The NEC exam consists of multiple-choice questions, covering a wide range of topics such as grounding and bonding, wiring methods, equipment installation, and more. It is essential to have a strong understanding of the NEC to navigate through these questions effectively.

## The Ultimate Study Guide

Our study guide is designed to help you triumph over the NEC exam. It includes comprehensive practice questions that cover all the relevant topics and mimic the format of the actual exam. Alongside the questions, you'll find detailed explanations and code references to ensure a thorough understanding of the concepts.

Unit 5
Raceway and Box Calculations

**Table 5A—Dimensions of Compact Insulated Conductors**

Chapter 9, Table 5A, lists the cross-sectional areas for compact copper and aluminum building wires. These conductors use specially shaped strands so that the overall size of the conductor is more compact. The outer covering is labeled as a compact conductor.

► **Table 5—THHN Compact Conductors**

**Question:** What is the cross-sectional area for one 1 THHN compact conductor?

(a) 0.0117 sq in.                      (b) 0.1352 sq in.  
 (c) 0.2733 sq in.                      (d) 0.5216 sq in.

**Answer:** (b) 0.1352 sq in.

**Conductor Cross-Sectional Area**  
Chapter 9 - Tables 5 and 8

<b>Table 5</b> 10 AWG THHN (solid/stranded) Area 0.0211 in. <sup>2</sup>	<b>Table 8</b> 10 AWG Bare Solid Area 0.008 in. <sup>2</sup>	<b>Table 8</b> 10 AWG Bare Stranded Area 0.011 in. <sup>2</sup>
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► **Table 5—Compact Conductors**

**Question:** What is the cross-sectional area for one 1/0 XHHW compact conductor?

(a) 0.0117 sq in.                      (b) 0.1352 sq in.  
 (c) 0.2733 sq in.                      (d) 0.5216 sq in.

**Answer:** (c) 0.2733 sq in.

**Table 8—Conductor Properties**

Chapter 9, Table 8 contains conductor properties such as cross-sectional area in circular mils, number of strands per conductor, cross-sectional area in square inches for bare conductors, and dc resistance at 75°C for both copper and aluminum conductors.

► **Bare Conductor—Cross-Sectional Area**

**Question:** What is the cross-sectional area for one 10 AWG bare conductor with seven strands? **Figure 5-10**

(a) 0.008 sq in.                      (b) 0.011 sq in.  
 (c) 0.038 sq in.                      (d) a or b

**Answer:** (b) 0.011 sq in. [Chapter 9, Table 8]

**5.2 Raceway Calculations**

Annex C—Tables 1 through 12 can't be used to determine raceway sizing when conductors of different sizes are installed in the same raceway. When this situation is encountered, the following steps are used to determine the raceway size and nipple size:

- Step 1: Determine the cross-sectional area (in square inches) for each conductor from Chapter 9, Table 5 for insulated conductors and from Chapter 9, Table 8 for bare conductors.
- Step 2: Determine the total cross-sectional area for all conductors.
- Step 3: Size the raceway according to the percent fill as listed in Chapter 9, Table 1. Chapter 9, Table 4 includes the various types of raceways with columns representing the allowable percentage fills, such as 40 percent for three or more conductors, and 60 percent for raceways 24 in. or less in length (nipples). Be careful when selecting the raceway from Chapter 9, Table 4 as this table is divided up into numerous tables for each raceway type, and you must choose the correct section of the table for the type of raceway.

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Mike Holt's Illustrated Guide to NEC Exam Preparation

Studying for the NEC exam can be a daunting task, but with our helpful tips, you'll be on your way to success. Here are some study strategies to consider:

- Create a study schedule: Designate specific time slots each day to focus solely on your exam preparation.
- Take practice exams: Regularly test your knowledge and track your progress by taking practice exams.
- Seek clarification: If you come across any confusing topics or questions, reach out to experienced professionals or consult reputable resources.
- Join study groups: Collaborate with other aspiring electricians to share insights and exchange study materials.
- Stay up-to-date: Keep yourself updated with the latest amendments and revisions to the NEC.

## **Unlock Your Full Potential**

By utilizing our study guide and following the recommended study strategies, you'll be well-prepared for the NEC exam and increase your chances of success. Remember, preparation is key, and consistent effort is crucial to master the intricate details of the NEC.

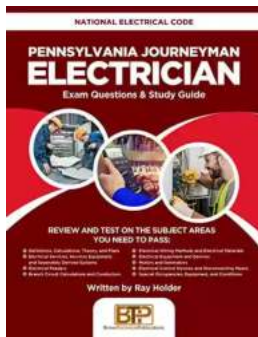
Don't let the exam stress you out. With dedication and hard work, you can ace the National Electrical Code exam and embark on a rewarding career in the electrical industry.

## **Your Path to Success Starts Today**

Ready to dive into the world of the National Electrical Code? Access our complete study guide by clicking the link below and take the first step towards acing your exam:

[Download Study Guide](#)

Remember, success favors the prepared mind. Good luck on your journey!



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The Pennsylvania Journeyman study guide will help you prepare for the exam by providing 12 practice open book exams and 2 Final Closed Book Exams. This book also covers most topics that are included on all Journeyman Electricians exams such as conductor sizing and protection, motors, transformers, voltage drop, over-current protection and residential and commercial load calculations. The text contains the most widely used electrical calculations and formulas the reader needs to pass the Journeyman electrical competency exam.



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