

# National Electrical Code (NEC) Articles Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

**Remember:** successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

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- 1. Which article addresses systems related to industrial machinery?**
  - A. Article 680**
  - B. Article 670**
  - C. Article 675**
  - D. Article 692**
  
- 2. Article 404 is associated with which component in electrical systems?**
  - A. Receptacles**
  - B. Switches**
  - C. Cable Trays**
  - D. Fixture Wires**
  
- 3. Motor fuel dispensing facilities fall under which area of electrical classification?**
  - A. Class III Locations**
  - B. Zone 0 Locations**
  - C. Class I, Zone 1 Locations**
  - D. Article 514**
  
- 4. What is the subject of Article 625?**
  - A. Electrified Truck Parking Spaces**
  - B. Electric Vehicle Charging System**
  - C. Electric Welders**
  - D. Audio Signal Processing**
  
- 5. What is the primary focus of Article 250 in the National Electrical Code?**
  - A. Grounding and Bonding**
  - B. Services**
  - C. Feeders**
  - D. Branch-Circuits**

- 6. Article 426 specifically addresses which type of application?**
- A. Fixed Outdoor Electric Deicing and Snow-Melting Equipment**
  - B. Lighting Systems Operating at 30 Volts or Less**
  - C. Motors and Controllers**
  - D. Fixed Electric Heating Equipment for Pipelines**
- 7. What conduit type is designated as EMT?**
- A. Electrical Metallic Tubing**
  - B. Liquidtight Flexible Metal Conduit**
  - C. High Density Polyethylene Conduit**
  - D. Nonmetallic Underground Conduit**
- 8. Which article outlines the requirements for electrical installations?**
- A. Article 200**
  - B. Article 210**
  - C. Article 110**
  - D. Article 250**
- 9. What characteristics define Class 1, Class 2, and Class 3 circuits as specified in Article 725?**
- A. Remote-Control, Signaling, and Power-Limited Circuits**
  - B. High Voltage Power Systems**
  - C. Instrumentation Cabling**
  - D. Communications Circuits**
- 10. Which article addresses the requirements for electrified truck parking spaces?**
- A. Article 630**
  - B. Article 625**
  - C. Article 640**
  - D. Article 626**

## Answers

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1. B
2. B
3. D
4. B
5. A
6. A
7. A
8. C
9. A
10. D

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## **Explanations**

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**1. Which article addresses systems related to industrial machinery?**

- A. Article 680
- B. Article 670**
- C. Article 675
- D. Article 692

Article 670 of the National Electrical Code (NEC) specifically addresses industrial machinery. This article provides the necessary guidelines and requirements for the safe installation, operation, and maintenance of electrical machinery in industrial settings. The focus of Article 670 is on equipment that is used in factories, power plants, and similar locations where machinery is essential for production and manufacturing processes. It covers aspects such as wiring methods, protection of equipment, grounding, and circuit requirements tailored specifically for industrial applications. Understanding the application of this article is crucial as it helps ensure that installations comply with safety standards, reduces the risk of electrical hazards, and promotes efficiency in industrial operations. The specific focus on machinery and the unique conditions that can arise in industrial environments sets this article apart from others that might deal with different types of electrical systems.

**2. Article 404 is associated with which component in electrical systems?**

- A. Receptacles
- B. Switches**
- C. Cable Trays
- D. Fixture Wires

Article 404 of the National Electrical Code (NEC) specifically deals with switch installations and requirements. It outlines the standards governing the installation and use of various types of switches—including general-purpose switches, dimmer switches, and dual-switch configurations, among others. Switches are crucial components in electrical systems as they control the power to lighting and other circuits, making their safe installation and operation essential for both functionality and safety. In the context of the NEC, this article ensures that switches are properly rated for their intended use and that they are installed according to specified guidelines to prevent hazards like electrical shorts or fires. It covers aspects such as switch location, mounting, and necessary clearances, emphasizing safety and compliance with building codes. Understanding the role of Article 404 helps electricians and inspectors ensure that switch installations meet the required safety standards, thereby promoting safe electrical practices in residential, commercial, and industrial settings.

### **3. Motor fuel dispensing facilities fall under which area of electrical classification?**

- A. Class III Locations**
- B. Zone 0 Locations**
- C. Class I, Zone 1 Locations**
- D. Article 514**

Motor fuel dispensing facilities are specifically addressed in Article 514 of the National Electrical Code (NEC). This article outlines the necessary precautions and electrical requirements for locations where flammable liquids, such as gasoline and diesel fuel, are handled and dispensed. In these facilities, the presence of flammable vapors necessitates stringent safety standards to prevent fires and explosions. Article 514 provides detailed provisions for the installation of electrical equipment and wiring within these areas, focusing on minimizing ignition risks. It covers aspects such as location classification, equipment ratings, and wiring methods specifically tailored to the hazards presented in motor fuel dispensing locations. Understanding the classification under Article 514 helps ensure compliance with safety regulations, thus protecting workers, customers, and the surrounding environment from potential fire hazards associated with handling flammable fuels. This specificity in Article 514 is crucial for adequately managing the unique risks these facilities present, further emphasizing its relevance when classifying such locations.

### **4. What is the subject of Article 625?**

- A. Electrified Truck Parking Spaces**
- B. Electric Vehicle Charging System**
- C. Electric Welders**
- D. Audio Signal Processing**

Article 625 of the National Electrical Code (NEC) specifically addresses Electric Vehicle Charging Systems. This article provides the necessary guidelines and requirements for the installation, maintenance, and safety of electric vehicle (EV) charging stations. It covers various aspects such as wiring methods, equipment ratings, and installation practices to ensure that electric vehicle charge points are safely integrated into electrical systems. This focus on EV charging systems reflects the increasing prevalence of electric vehicles and the need for clear, safe, and effective charging solutions in residential, commercial, and public applications. By establishing standards for these systems, Article 625 helps mitigate risks associated with electrical hazards while promoting the growth of electric mobility infrastructure. The other topics listed do not relate to the scope of Article 625, making it clear why Electric Vehicle Charging System is the subject of this specific article in the NEC.

**5. What is the primary focus of Article 250 in the National Electrical Code?**

**A. Grounding and Bonding**

**B. Services**

**C. Feeders**

**D. Branch-Circuits**

Article 250 of the National Electrical Code (NEC) primarily focuses on grounding and bonding, which are critical aspects of electrical safety. Grounding provides a path for electrical current to safely dissipate into the earth or ground, reducing the risk of electric shock and protecting equipment from transient voltages. Bonding, on the other hand, involves connecting various metal parts of an electrical system to ensure they maintain the same electrical potential, thereby preventing dangerous voltage differences that could lead to shock hazards. This article outlines the requirements for grounding electrode systems, ground conductors, and the bonding of equipment and systems to ensure effective grounding and bonding practices. It addresses the methods and materials used, as well as the necessary configurations to achieve safety in electrical installations. By focusing on these critical safety components, Article 250 helps minimize electrical hazards and enhance the overall reliability of electrical systems, making it essential for electricians and engineers in designing and implementing safe electrical installations.

**6. Article 426 specifically addresses which type of application?**

**A. Fixed Outdoor Electric Deicing and Snow-Melting Equipment**

**B. Lighting Systems Operating at 30 Volts or Less**

**C. Motors and Controllers**

**D. Fixed Electric Heating Equipment for Pipelines**

Article 426 of the National Electrical Code (NEC) specifically pertains to fixed outdoor electric deicing and snow-melting equipment. This article outlines the requirements for systems designed to prevent the accumulation of ice and snow on surfaces such as walkways, roofs, and other structures. The focus is on safety, installation methods, and the performance of the systems to ensure effective operation and minimize hazards. The inclusion of specific provisions for outdoor applications is essential because these installations face unique environmental conditions that could impact electrical safety and performance. The code addresses issues such as proper grounding, circuit protection, and selection of materials suitable for outdoor use, ensuring that installations are safe and reliable in the harsh conditions often associated with winter weather. While the other options cover important aspects of electrical installations, they do not fall under the scope of Article 426. For example, lighting systems operating at 30 volts or less have their own set of requirements under different sections of the NEC. Similarly, motors and controllers are addressed in another article, as is fixed electric heating equipment for pipelines, which focuses on a different category of heating applications unrelated to deicing or snow melting.

## 7. What conduit type is designated as EMT?

- A. Electrical Metallic Tubing**
- B. Liquidtight Flexible Metal Conduit**
- C. High Density Polyethylene Conduit**
- D. Nonmetallic Underground Conduit**

The designation EMT stands for Electrical Metallic Tubing. This type of conduit is widely used in electrical installations due to its lightweight, thin-walled construction that provides both physical protection for conductors and a path for electrical grounding. EMT is made of galvanized steel or aluminum, which prevents corrosion and contributes to the overall durability of the electrical system. Electrical Metallic Tubing is commonly used in commercial and industrial applications where it is exposed to light and moderate levels of impact. It is also preferred for applications in areas that require a conduit system to be rigid yet easy to install. The smooth interior of EMT allows for easier pulling of wires and cables, which can contribute to efficient installation processes. The other types of conduits mentioned serve different purposes and are made from different materials, making them unsuitable for the specific designation of EMT. Liquidtight Flexible Metal Conduit is designed for wet locations, High Density Polyethylene Conduit is used for underground installations primarily in utility applications, and Nonmetallic Underground Conduit is used for direct burial, all of which are distinct from the expected characteristics and applications of Electrical Metallic Tubing.

## 8. Which article outlines the requirements for electrical installations?

- A. Article 200**
- B. Article 210**
- C. Article 110**
- D. Article 250**

Article 110 of the National Electrical Code (NEC) specifically outlines the general requirements for electrical installations. It addresses the need for proper installation practices to ensure safety and efficiency in electrical systems. This article covers critical aspects such as proper working conditions, spaces needed for electrical equipment, and requirements for labeling of equipment. This article emphasizes the importance of safe and accessible installations, which are foundational to preventing hazards and ensuring that electrical systems are properly maintained. It mandates that all electrical installations be done in accordance with the code to minimize risks such as electric shock or fire hazards. Thus, Article 110 serves as a comprehensive groundwork for understanding and implementing safe electrical installation practices. The other options focus on specific aspects of electrical installations, such as branch circuits, but do not encompass the broader category of overall installation requirements.

**9. What characteristics define Class 1, Class 2, and Class 3 circuits as specified in Article 725?**

- A. Remote-Control, Signaling, and Power-Limited Circuits**
- B. High Voltage Power Systems**
- C. Instrumentation Cabling**
- D. Communications Circuits**

The characteristics that define Class 1, Class 2, and Class 3 circuits, as specified in Article 725 of the National Electrical Code, relate specifically to the application and power limitations associated with these circuits. Class 1 circuits are typically used for remote control and signaling applications where higher voltage levels are acceptable. Class 2 and Class 3 circuits, on the other hand, are designed to operate at lower voltages and are primarily used for power-limited applications to ensure safety and reduce the risk of electrical shock. Class 2 circuits are intended for low-power applications that require limited voltage and current to ensure that they are inherently safe for the user. Class 3 circuits are similar, but they are often used for control and signaling purposes, where even lower power levels can be utilized. This classification is vital in the design and installation of electrical systems because it helps ensure that circuits are used safely and appropriately, reducing the risk of hazards. The correct answer captures the full scope of these circuits as they relate to their function in signaling and power limitation, aligning precisely with the definitions provided in the NEC.

**10. Which article addresses the requirements for electrified truck parking spaces?**

- A. Article 630**
- B. Article 625**
- C. Article 640**
- D. Article 626**

The requirements for electrified truck parking spaces are addressed in Article 626 of the National Electrical Code (NEC). This article specifically focuses on the necessary electrical provisions for truck parking areas that provide electric power for the auxiliary power units, which are often used in diesel trucks to minimize idling, improve fuel efficiency, and provide power for comfort amenities while parked. Understanding Article 626 provides clarity on key aspects such as the installation of electrical services, grounding, and circuit protection specifically tailored for these unique applications. This article establishes safety standards to ensure that the electrical infrastructure in truck parking spaces is compliant and effective for their intended use. Other articles mentioned, while they may cover related topics in the broader scope of electrical installations, do not specifically delineate the requirements for electrified truck parking spaces like Article 626 does.

## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

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**We wish you the very best on your exam journey. You've got this!**

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