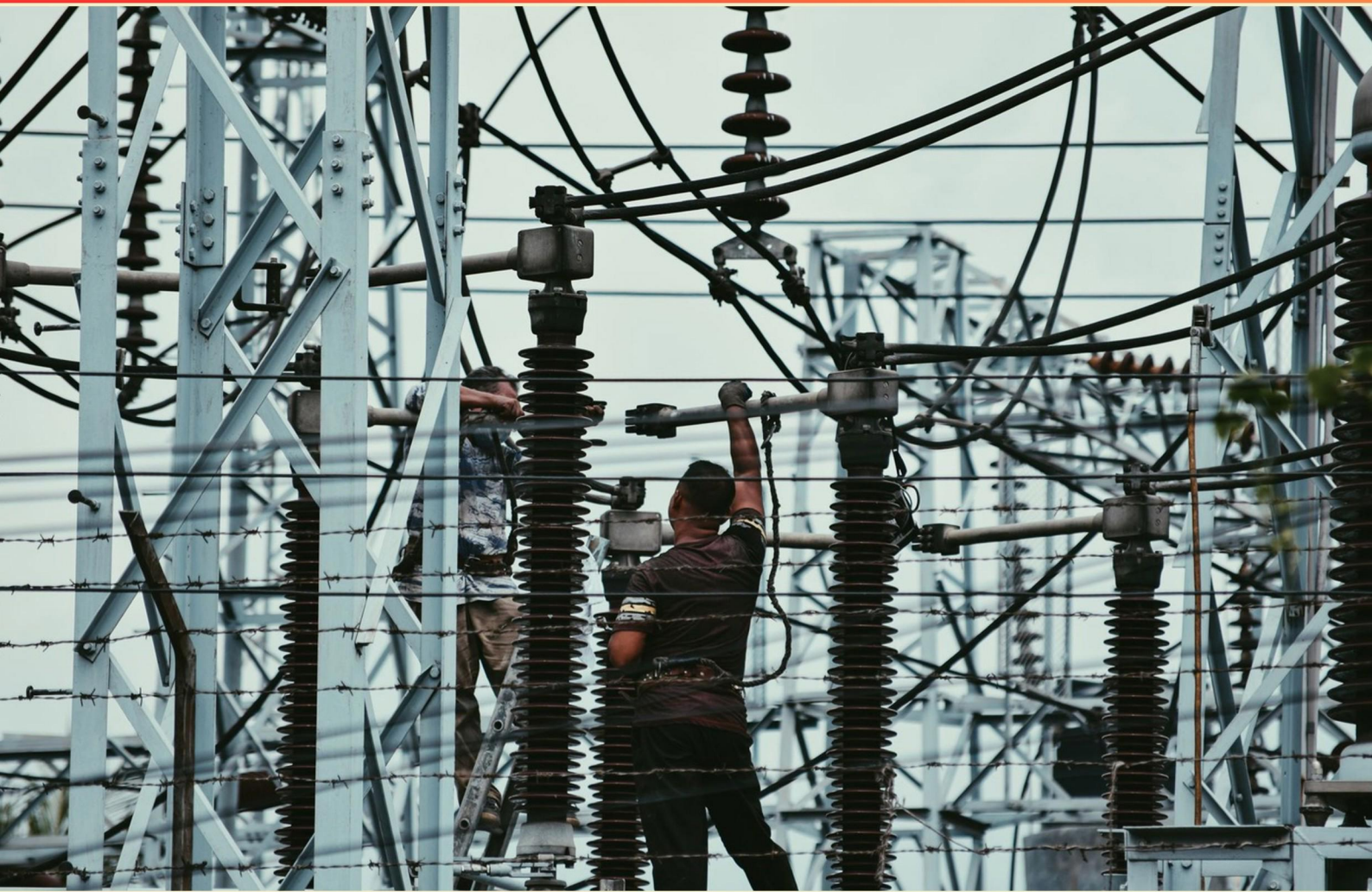


NATIONAL ELECTRICAL CODE (NEC) ARTICLES PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

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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. What type of wiring does Article 398 cover?**
 - A. Open Wiring on Insulators
 - B. Messenger-Supported Wiring
 - C. Surface Nonmetallic Raceways
 - D. Concealed Knob-and-Tube Wiring
- 2. What type of conduit is described as Type HDPE?**
 - A. High Density Polyethylene Conduit
 - B. Liquidtight Flexible Nonmetallic Conduit
 - C. Nonmetallic Underground Conduit
 - D. Rigid Polyvinyl Chloride Conduit
- 3. What does the Type FMT refer to in conduit classifications?**
 - A. Flexible Metallic Tubing
 - B. Reinforced Thermosetting Resin Conduit
 - C. Liquidtight Flexible Metal Conduit
 - D. Electrical Nonmetallic Tubing
- 4. Floating buildings are addressed in which Article of the National Electrical Code?**
 - A. Article 552
 - B. Article 553
 - C. Article 555
 - D. Article 600
- 5. Which of the following is covered under Article 660?**
 - A. Induction and Dielectric Heating Equipment
 - B. Electric Vehicle Charging System
 - C. X-Ray Equipment
 - D. Sensitive Electronic Equipment

6. Which article would you refer to regarding interconnected electric power production sources?

- A. Article 701
- B. Article 702
- C. Article 705
- D. Article 720

7. Which article addresses Surge-Protective Devices (SPDs)?

- A. Article 280
- B. Article 300
- C. Article 285
- D. Article 310

8. What does Article 310 specify?

- A. Cables for Outdoor Use
- B. Conductors for General Wiring
- C. Surge Arresters
- D. Armored Cables

9. Article 830 covers which type of systems?

- A. Residential lighting systems
- B. Network-powered broadband communications systems
- C. Emergency power systems
- D. Television broadcasting systems

10. What type of storage does Article 515 specifically address?

- A. Bulk storage plants
- B. Hazardous materials storage
- C. Class I storage
- D. Electrical storage

Answers

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

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Explanations

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1. What type of wiring does Article 398 cover?

- A. Open Wiring on Insulators
- B. Messenger-Supported Wiring
- C. Surface Nonmetallic Raceways
- D. Concealed Knob-and-Tube Wiring

Article 398 of the National Electrical Code specifically covers "Open Wiring on Insulators." This type of wiring typically involves conductors that are supported by insulators, allowing them to be mounted on objects such as poles or building structures without the use of conduit or raceways. The intent of the regulations under this article is to ensure safety and reliability by specifying installation methods, splicing requirements, and other installation practices that mitigate risks such as electrical hazards or physical damage to the conductors. Open wiring provides adequate spacing and support to avoid contact with conductive materials and is designed to protect the wiring from environmental factors. Understanding the context of this wiring type is crucial for anyone involved in electrical installations, as it has unique considerations in terms of compliance with safety standards. Other options mentioned, such as messenger-supported wiring or surface nonmetallic raceways, refer to different types of electrical systems and installation methods, highlighting the diversity of electrical installations covered under various articles of the NEC.

2. What type of conduit is described as Type HDPE?

- A. High Density Polyethylene Conduit
- B. Liquidtight Flexible Nonmetallic Conduit
- C. Nonmetallic Underground Conduit
- D. Rigid Polyvinyl Chloride Conduit

The correct identification of Type HDPE as High Density Polyethylene Conduit is rooted in the properties and applications associated with this material. High-density polyethylene (HDPE) is known for its toughness and flexibility, making it an ideal choice for conduit used in various applications, especially in underground installations. It offers excellent resistance to chemicals, moisture, and impacts, which enhances the durability of electrical systems in challenging environments. This conduit type is particularly advantageous for installations that require a nonmetallic option due to its lightweight nature and ease of handling. Furthermore, HDPE is also compliant with various codes and standards for electrical applications, ensuring safety and reliability. In contrast, the other options involve different materials or functionalities that do not align with the characteristics of HDPE. Liquidtight flexible nonmetallic conduit, for example, has a different design purpose, typically intended for flexible applications where protection against liquids is needed. Nonmetallic underground conduit relates to another category that does not specify the high-density aspects, and rigid polyvinyl chloride conduit is distinctly different in material composition and rigidity. Understanding the specific applications and characteristics of these materials is essential for ensuring compliance with the NEC standards.

3. What does the Type FMT refer to in conduit classifications?

- A. Flexible Metallic Tubing**
- B. Reinforced Thermosetting Resin Conduit
- C. Liquidtight Flexible Metal Conduit
- D. Electrical Nonmetallic Tubing

Type FMT refers to Flexible Metallic Tubing. This type of conduit is specifically designed to provide a lightweight, flexible option for wiring in various applications. It is made from thin-wall, flexible metal and is used primarily in areas where there may be some movement of equipment or where rigid conduit might be too cumbersome. Flexible Metallic Tubing is particularly advantageous for its ability to be bent and shaped to fit around obstacles, making installation simpler and faster in complex environments. It also offers a degree of protection against physical damage to the conductors contained within. The metallic nature of FMT helps to shield the conductors from electromagnetic interference, a common concern in electrical installations. In contrast, other conduit types mentioned serve different purposes, such as Liquidtight Flexible Metal Conduit, which is designed for moisture and corrosion protection, or Electrical Nonmetallic Tubing, which is better suited for dry environments where additional flexibility is needed without the concerns of moisture or metal corrosion. Each conduit type has its distinct applications and benefits, aligning with specific installation needs and environmental considerations.

4. Floating buildings are addressed in which Article of the National Electrical Code?

- A. Article 552
- B. Article 553**
- C. Article 555
- D. Article 600

Floating buildings are specifically addressed in Article 553 of the National Electrical Code (NEC). This article provides guidelines and requirements for electrical installations related to floating structures, such as marinas and houseboats, taking into account unique considerations such as water exposure and the potential for flooding. Article 553 outlines safety measures and operational practices necessary to ensure the safe use of electrical equipment in environments where the structure may be subject to water movement, moisture, and other challenging conditions. This includes aspects such as waterproof wiring methods and suitable equipment that can withstand the marine environment. Understanding these specifications is crucial for ensuring compliance and safety in installations that fall under this category. The other articles mentioned, while relevant to various aspects of electrical installations, do not specifically target floating buildings or the unique conditions associated with them. For example, Article 552 deals with temporary installations and Article 555 addresses requirements for marinas and boatyards but not directly for floating structures. Article 600 pertains to signage and indicates its focus on electrical signs and outline lighting, which is unrelated to the specific considerations for floating buildings.

5. Which of the following is covered under Article 660?

- A. Induction and Dielectric Heating Equipment
- B. Electric Vehicle Charging System
- C. X-Ray Equipment**
- D. Sensitive Electronic Equipment

Article 660 of the National Electrical Code specifically addresses the requirements for X-ray equipment. This article outlines safety practices, circuit arrangement, and installation guidelines to ensure not only the safe use of X-ray devices but also to mitigate potential hazards associated with their operation. It provides standards for the electrical considerations needed to safely operate X-ray systems, which include controls for exposure times and protection against radiation. Contextually, while induction and dielectric heating equipment, electric vehicle charging systems, and sensitive electronic equipment all have relevant articles within the NEC—such as Article 640 for induction and dielectric heating and other sections pertaining to vehicle charging and sensitive electronics—they do not specifically fall under the purview of Article 660, which is solely focused on X-ray equipment. Therefore, understanding and applying the guidelines within Article 660 is crucial for professionals who work with X-ray technologies to ensure compliance and safety in their installations.

6. Which article would you refer to regarding interconnected electric power production sources?

- A. Article 701
- B. Article 702
- C. Article 705**
- D. Article 720

The focus on interconnected electric power production sources is addressed in Article 705 of the National Electrical Code (NEC). This article outlines the requirements for connecting multiple power sources, including renewable energy systems, to the electrical grid. It covers essential aspects such as the interconnection of utility power systems with alternative energy systems, ensuring safe operation and effective management of power flow. This article is crucial for ensuring that systems can operate harmoniously, protecting both the electrical systems and the utility grid from potential issues that could arise from interconnected operations. It stipulates the necessary safety and operational standards that must be met when integrating these power sources. In contrast, other articles mention different aspects of electrical systems: Article 701 deals with emergency systems, Article 702 pertains to optional standby systems, and Article 720 focuses on the requirements for low-voltage and Class 2 and Class 3 circuits. None of these cover the specific requirements and safety considerations for interconnected power production sources like Article 705 does.

7. Which article addresses Surge-Protective Devices (SPDs)?

- A. Article 280
- B. Article 300
- C. Article 285**
- D. Article 310

Surge-Protective Devices (SPDs) are specifically addressed in Article 280 of the National Electrical Code (NEC). This article outlines the requirements and guidelines for the installation and use of SPDs in electrical systems to protect against voltage surges. These devices are crucial for safeguarding electrical equipment from damage caused by transient overvoltages, such as those created by lightning strikes or switching operations in power systems. Article 280 details the types of surge protection, their ratings, and installation practices to ensure that SPDs are effectively integrated into both residential and commercial electrical systems. Understanding this article is essential for electricians and engineers who are responsible for implementing surge protection in electrical installations, ensuring the safety and reliability of electrical equipment. While other articles, such as Article 300 and Article 310, cover broader electrical installation practices and conductors, they do not specifically focus on surge protection. Therefore, knowing that Article 280 addresses SPDs helps professionals navigate the necessary regulations when designing and installing relevant protective measures.

8. What does Article 310 specify?

- A. Cables for Outdoor Use
- B. Conductors for General Wiring**
- C. Surge Arresters
- D. Armored Cables

Article 310 of the National Electrical Code (NEC) specifically addresses conductors for general wiring. This article outlines the requirements concerning the types of conductors that can be utilized for electrical installations, focusing on their insulation, installation methods, ampacity ratings, and various ratings that can ensure safe and effective performance in a variety of environmental conditions. Understanding this article is crucial for electricians and designers as it ensures that they select the appropriate conductors based on the application needs and local codes. This includes considerations for temperature ratings, the physical environment where the conductors will be installed, and the ability to handle the electrical load safely. While the other options may pertain to specific aspects of wiring and installation methods, they do not encapsulate the broader category and guidelines surrounding conductors as set forth in Article 310. Therefore, focusing on the general specifications in Article 310 equips professionals with the information needed to make informed decisions regarding conductor selection and usage in general wiring scenarios.

9. Article 830 covers which type of systems?

- A. Residential lighting systems
- B. Network-powered broadband communications systems**
- C. Emergency power systems
- D. Television broadcasting systems

Article 830 of the National Electrical Code specifically addresses network-powered broadband communications systems. This section focuses on the installation, safety, and performance requirements for systems that provide broadband telecommunications, which includes various forms of data transmission and communication networks. Network-powered broadband communications systems typically rely on power and data to function, often utilizing both coaxial and fiber optic cables, and may include technologies such as cable internet, digital subscriber lines (DSL), and other high-speed data services. The standards laid out in Article 830 ensure that these systems are installed in a way that protects both the infrastructure and the users from electrical hazards. The other types of systems mentioned are covered under different articles within the NEC. For instance, residential lighting systems are addressed under a separate article that focuses on residential installations, emergency power systems have their own specific requirements outlined in another part of the code, and television broadcasting systems, while related to communications, are governed by different regulations that are not specified within Article 830. Thus, the focus on broadband communications systems is what distinguishes Article 830 from those other topics.

10. What type of storage does Article 515 specifically address?

- A. Bulk storage plants**
- B. Hazardous materials storage
- C. Class I storage
- D. Electrical storage

Article 515 of the National Electrical Code specifically addresses the requirements for bulk storage plants. This article outlines the safety provisions and electrical requirements necessary to ensure safe operation in facilities storing large quantities of flammable or combustible liquids. The focus on bulk storage plants is critical because these environments present unique hazards due to the potential for spills, leaks, and vapors that can create explosive atmospheres. As such, the article includes guidelines for the installation of electrical equipment, wiring methods, and other safety measures to mitigate risks associated with these conditions. The requirement for specific electrical systems and equipment in bulk storage situations aligns with the intent of the NEC to ensure safety in environments where hazardous liquids are stored in significant quantities. This approach minimizes the risk of ignition and helps protect both personnel and property.

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.

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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