

# Module 26102-20 - Safety for Electricians 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

- 1. What is the main benefit of keeping work areas well-lit?**
  - A. Enhanced aesthetic appeal**
  - B. Reduction of energy usage**
  - C. Decreased risk of accidents**
  - D. Improvement of air quality**
- 2. What does CFR 1910.335 address?**
  - A. Guidelines for electrical inspections**
  - B. Safeguards for personal protective equipment**
  - C. General safety procedures for electricians**
  - D. Training requirements for electricians**
- 3. Which of the following options best describes personal protective equipment (PPE) in relation to NFPA 70E?**
  - A. PPE is optional for electricians**
  - B. PPE is required for protection against electrical hazards**
  - C. PPE is only necessary during inspections**
  - D. PPE can be substituted with general work attire**
- 4. What should be done if an employee observes a potential safety hazard on the job?**
  - A. Ignore it**
  - B. Notify a supervisor immediately**
  - C. Document it only in the next safety meeting**
  - D. Wait until someone else reports it**
- 5. What percentage of conductor-related incidents involve low-voltage conductors?**
  - A. 75%**
  - B. 66%**
  - C. 50%**
  - D. 33%**

- 6. Why is it critical to maintain a clean and organized work area in electrical work?**
- A. To make the area look professional**
  - B. To minimize hazards and enhance safety**
  - C. To ensure tools are easily accessible**
  - D. To meet aesthetic requirements**
- 7. What is 'incident energy' in the context of electrical safety?**
- A. The total energy consumed by electrical devices**
  - B. The thermal energy measured at a distance from the arc source**
  - C. The energy efficiency of electrical installations**
  - D. The energy dissipated during electrical outages**
- 8. What distinguishes double-insulated tools from other electrical tools?**
- A. They are more powerful**
  - B. They are designed for underwater use**
  - C. The case is insulated from electrical energy**
  - D. They do not require maintenance**
- 9. Why are lockout/tagout procedures important?**
- A. They enhance the efficiency of maintenance work**
  - B. They prevent accidental energization of equipment during maintenance**
  - C. They improve worker productivity**
  - D. They reduce equipment wear and tear**
- 10. What is a primary reason extension cords can be dangerous?**
- A. They are often too short**
  - B. They can present tripping hazards if not managed properly**
  - C. They are usually outdated technology**
  - D. They tend to overheat in cold weather**



## **Answers**

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

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## **Explanations**

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## 1. What is the main benefit of keeping work areas well-lit?

- A. Enhanced aesthetic appeal
- B. Reduction of energy usage
- C. Decreased risk of accidents**
- D. Improvement of air quality

Keeping work areas well-lit is primarily focused on decreasing the risk of accidents. Adequate lighting is crucial in an electrical work environment as it allows electricians to clearly see tools, equipment, and potential hazards. Good visibility can significantly reduce the likelihood of tripping, falling, or making errors while handling electrical components. This is especially important in environments where intricate work is performed and safety protocols must be strictly followed. While enhanced aesthetic appeal, reduction of energy usage, and improvement of air quality are noteworthy considerations in a workplace, they do not directly address the immediate safety concerns that arise in potentially hazardous settings like electrical work. Ensuring sufficient lighting is fundamentally about safeguarding the well-being of workers and minimizing the chances of incidents occurring due to poor visibility.

## 2. What does CFR 1910.335 address?

- A. Guidelines for electrical inspections
- B. Safeguards for personal protective equipment**
- C. General safety procedures for electricians
- D. Training requirements for electricians

CFR 1910.335 specifically addresses the requirements for personal protective equipment (PPE) related to electrical safety. It emphasizes the importance of utilizing appropriate PPE to protect employees who are exposed to electrical hazards during their work activities. The standard outlines the types of protective gear that must be used, such as voltage-rated gloves, insulated tools, and flame-resistant clothing, depending on the level of risk present. This regulation is crucial for maintaining safety on the job site, as it helps mitigate the risks associated with electrical work, including shock and arc flash incidents. By mandating the use of specific PPE, CFR 1910.335 provides clear guidance for employers and employees to follow, ensuring a safer working environment and reducing the likelihood of electrical accidents.

**3. Which of the following options best describes personal protective equipment (PPE) in relation to NFPA 70E?**

**A. PPE is optional for electricians**

**B. PPE is required for protection against electrical hazards**

**C. PPE is only necessary during inspections**

**D. PPE can be substituted with general work attire**

Personal protective equipment (PPE) is essential for electricians, especially in the context of NFPA 70E, which addresses electrical safety in the workplace. The correct answer emphasizes the requirement for PPE as a critical measure to protect workers from electrical hazards. This standard outlines the need for proper PPE to minimize risks such as arc flash, electrical shock, or other safety incidents that can occur while working on or near live electrical systems. PPE includes items such as gloves, insulated tools, hard hats, face shields, and flame-resistant clothing, specifically designed to offer protection in environments where electrical hazards are present. The emphasis on the necessity of PPE highlights the importance of adhering to safety protocols to ensure the well-being of electricians while performing their duties. This requirement is not just a recommendation but a legal obligation to maintain a safe working environment and comply with established safety standards.

**4. What should be done if an employee observes a potential safety hazard on the job?**

**A. Ignore it**

**B. Notify a supervisor immediately**

**C. Document it only in the next safety meeting**

**D. Wait until someone else reports it**

When an employee observes a potential safety hazard on the job, the most appropriate action is to notify a supervisor immediately. This proactive step ensures that the hazard can be assessed and addressed without delay, significantly reducing the risk of accidents or injuries. Timely reporting allows for prompt action, whether it involves repairing the hazard, implementing safety measures, or conducting further investigation. Immediate communication about the hazard also fosters a culture of safety within the workplace, encouraging others to be vigilant and prioritize safety. It emphasizes the importance of each employee's role in maintaining a safe working environment and helps establish protocols for dealing with similar situations in the future.

**5. What percentage of conductor-related incidents involve low-voltage conductors?**

- A. 75%
- B. 66%**
- C. 50%
- D. 33%

The correct percentage for conductor-related incidents involving low-voltage conductors is 66%. This statistic highlights the significance of low-voltage systems in the overall landscape of electrical safety. Low-voltage conductors are often present in many applications, including residential and commercial wiring, which can lead to a higher frequency of incidents related to them. Understanding that a majority of incidents involve low-voltage conductors emphasizes the need for rigorous safety training and precautions when working with these types of systems. It also serves as a reminder to electricians to always prioritize safety measures, even in low-voltage environments where the risks may sometimes be underestimated. Recognizing this percentage helps professionals in the electrical field to focus their safety protocols and education on the types of conductors that contribute most significantly to incidents, ultimately fostering a safer working environment.

**6. Why is it critical to maintain a clean and organized work area in electrical work?**

- A. To make the area look professional
- B. To minimize hazards and enhance safety**
- C. To ensure tools are easily accessible
- D. To meet aesthetic requirements

Maintaining a clean and organized work area in electrical work is crucial for minimizing hazards and enhancing safety. An untidy or cluttered environment can lead to various risks, including tripping hazards, difficulty accessing emergency equipment, and the potential for electrical accidents or exposure to live wires. By keeping the workspace organized, electricians can easily locate tools, components, and safety equipment, which is vital for efficient workflow and responsiveness in critical situations. An orderly workspace also reduces the likelihood of accidents, as all items are properly stored and any potential hazards can be easily identified and addressed. Prioritizing safety through organization directly impacts the well-being of both the electrician and anyone present in the area.

**7. What is 'incident energy' in the context of electrical safety?**

- A. The total energy consumed by electrical devices
- B. The thermal energy measured at a distance from the arc source**
- C. The energy efficiency of electrical installations
- D. The energy dissipated during electrical outages

Incident energy refers to the thermal energy measured at a specific distance from the source of an electrical arc. In the context of electrical safety, particularly when dealing with arc flash hazards, understanding incident energy is crucial. It helps in assessing the potential severity of an arc flash incident, guiding protective measures and personal protective equipment (PPE) requirements. By measuring this energy, safety protocols can be developed to minimize risks to personnel working near energized equipment. Understanding incident energy allows for informed decisions regarding the safety measures needed to protect workers, as it indicates how much heat a person might be exposed to during an electrical fault. This understanding is fundamental in preventing injuries and fatalities in electrical environments.

**8. What distinguishes double-insulated tools from other electrical tools?**

- A. They are more powerful
- B. They are designed for underwater use
- C. The case is insulated from electrical energy**
- D. They do not require maintenance

Double-insulated tools are specifically designed with safety in mind, and their most distinguishing feature is that their cases are insulated from electrical energy. This means these tools have two layers of insulation protecting the user from electric shock, even if there is a fault in the tool's electrical system. This design allows for safe operation without the need for a grounding conductor, making them particularly suitable for environments where grounding may not be feasible or reliable. This enhanced safety feature means that even if the internal components become energized, the risk of electrical shock to the user is minimized due to the effective insulation between the electrical parts and the tool's exterior. As a result, double-insulated tools are often recognized by their markings or labels indicating that they meet specific safety standards. In contrast, other options do not reflect the fundamental safety characteristics of double-insulated tools. While some tools may be powerful or require less maintenance, these traits are not exclusive to double-insulated models. The specific mention of design for underwater use also does not apply to all double-insulated tools, which are primarily focused on preventing electrical hazards rather than specialized environmental conditions.

## 9. Why are lockout/tagout procedures important?

- A. They enhance the efficiency of maintenance work
- B. They prevent accidental energization of equipment during maintenance**
- C. They improve worker productivity
- D. They reduce equipment wear and tear

Lockout/tagout procedures are vital because they are specifically designed to prevent the accidental energization of equipment during maintenance activities. This is crucial for ensuring the safety of workers who might be working on or near machinery that is under maintenance. Without these procedures in place, there is a significant risk of unintentional activation of equipment, which could lead to serious injuries or fatalities. Lockout/tagout protocols require that energy sources are properly isolated and controlled, and that clear labels or tags are placed to communicate that maintenance is being performed. This systematic approach guarantees that all employees are aware of the work being done and that machinery remains in a safe state until the maintenance work is completed and it is deemed safe to restore power. In contrast, enhancing efficiency or improving productivity, while beneficial, are secondary outcomes that do not address the immediate safety concerns that lockout/tagout procedures target. Reducing wear and tear on equipment is also not the primary focus; rather, the main goal is to protect workers from the dangers posed by unexpectedly energized equipment.

## 10. What is a primary reason extension cords can be dangerous?

- A. They are often too short
- B. They can present tripping hazards if not managed properly**
- C. They are usually outdated technology
- D. They tend to overheat in cold weather

The selection highlights a significant safety concern regarding extension cords: the risk of tripping hazards. When extension cords are not carefully managed, they can cross walkways or be left in areas where people may not see them, creating a potential for trips and falls. This is particularly critical in environments where there may be various foot traffic, such as construction sites or during large events. Injury from tripping can lead to serious accidents, especially in scenarios where heavy tools or equipment are involved. While the other options touch on some level of concern, they don't address the direct and immediate dangers associated with improper cord management and the consequent potential for physical injuries. Therefore, recognizing the tripping hazard as a primary reason underscores the necessity for electricians to maintain awareness of their work environment and ensure that any cords used are organized and positioned safely.



## 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:**

**<https://safetyforelectricians.examzify.com>**

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