

WASHINGTON STATE JOURNEYMAN PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

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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. How is the capacity of a fuse determined?**
 - A. By its material composition
 - B. By its voltage rating
 - C. By its amp rating
 - D. By its physical size
- 2. What is the function of the ground-fault circuit interrupter (GFCI) test button?**
 - A. It resets the circuit after a power surge
 - B. It allows users to verify the functionality of the GFCI to ensure safety
 - C. It measures the current flowing through the circuit
 - D. It signals a maintenance reminder for circuit inspection
- 3. Electrical Plan Review is not required for which modification criteria?**
 - A. Involves emergency circuits
 - B. Involves essential electrical systems
 - C. Rated over 400 amps or 250 volts
 - D. Service loads are increased by more than 5%
- 4. What occurs during a short circuit?**
 - A. An unintended path of high resistance is created
 - B. Power is automatically disconnected
 - C. An unintended path of low resistance is created, allowing excess current to flow
 - D. Voltage levels are balanced
- 5. What determines the weight rating of a ceiling box?**
 - A. Type of electrical outlet used
 - B. Manufacturer's instructions and box design
 - C. Location of installation
 - D. The height of the ceiling

- 6. What determines the height for the center of the service meter on a Service Entrance?**
- A. Local building codes
 - B. The WAC guidelines
 - C. The serving utility's requirements
 - D. The electrician's recommendation
- 7. How many inspections are allowed for a plant that uses 5 electricians?**
- A. 12
 - B. 20
 - C. 24
 - D. 30
- 8. How far from the outside edge of a peninsular countertop must a receptacle be located?**
- A. 5 feet
 - B. 8 feet
 - C. 10 feet
 - D. 12 feet
- 9. What might be a consequence of lying to the department?**
- A. A minor penalty fee
 - B. Criminal prosecution
 - C. Loss of benefits
 - D. Extended training hours
- 10. Who is responsible for producing the affidavit of experience form for a trainee?**
- A. The trainee
 - B. The electrical contractor who employed the trainee
 - C. The board of electricians
 - D. The state licensing authority

Answers

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

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Explanations

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1. How is the capacity of a fuse determined?

- A. By its material composition
- B. By its voltage rating
- C. By its amp rating**
- D. By its physical size

The capacity of a fuse is primarily determined by its amp rating. The amp rating indicates the maximum amount of current that the fuse can safely carry without blowing. When the current exceeds this rating, the fuse will melt and interrupt the circuit to prevent damage to the electrical system. While other factors like material composition, voltage rating, and physical size may influence performance or applicability in specific scenarios, they do not directly determine the fuse's capacity to carry current. The amp rating is the critical specification that dictates how much electrical load the fuse can handle in a safe manner. Understanding this fundamental aspect is essential for ensuring that the fuse is appropriate for the intended use within an electrical system.

2. What is the function of the ground-fault circuit interrupter (GFCI) test button?

- A. It resets the circuit after a power surge
- B. It allows users to verify the functionality of the GFCI to ensure safety**
- C. It measures the current flowing through the circuit
- D. It signals a maintenance reminder for circuit inspection

The function of the ground-fault circuit interrupter (GFCI) test button is to allow users to verify the functionality of the GFCI to ensure safety. GFCIs are designed to protect against electrical shock by quickly disconnecting the power when they detect an imbalance between the incoming and outgoing electrical current. By pressing the test button on a GFCI, the circuit interrupts the current flow, simulating a ground fault. This action confirms that the GFCI is operating properly and will respond effectively in a real fault situation. Regularly testing GFCIs helps ensure that they are functioning as intended, which is crucial for maintaining a safe electrical environment, particularly in areas where water is present, such as kitchens and bathrooms. This added layer of safety reassures users that the device will trip when needed, thereby reducing the risk of electric shocks or fires. Other options provided do not accurately reflect the specific purpose of the test button.

3. Electrical Plan Review is not required for which modification criteria?

- A. Involves emergency circuits
- B. Involves essential electrical systems
- C. Rated over 400 amps or 250 volts
- D. Service loads are increased by more than 5%**

Electrical Plan Review typically focuses on modifications that significantly impact safety or system integrity. When service loads are increased by more than 5%, this does not necessarily trigger a detailed plan review. Changes of this nature are generally manageable within the existing infrastructure, provided they comply with code requirements and do not compromise the overall performance of the electrical system. On the other hand, modifications that involve emergency circuits, essential electrical systems, or significant changes like those rated over 400 amps or 250 volts are more critical from a safety and operational standpoint. These situations require careful scrutiny to ensure that the system can handle the new loads and that all safety standards are met, thus warranting a plan review. Therefore, the modification involving a service load increase of more than 5% is considered low risk, and a review may not be necessary.

4. What occurs during a short circuit?

- A. An unintended path of high resistance is created
- B. Power is automatically disconnected
- C. An unintended path of low resistance is created, allowing excess current to flow**
- D. Voltage levels are balanced

During a short circuit, an unintended path of low resistance is created, which allows excess current to flow. This situation often arises when electrical conductors touch each other or are connected inappropriately. In a typical circuit, resistance limits the flow of electrical current, maintaining safe operating levels for all components involved. When a short circuit occurs, the low resistance path essentially bypasses the normal load, leading to a rapid increase in current flow. This surge can generate heat, potentially causing damage to wires, equipment, and even creating a risk of fire. Short circuits are critical events because they can overwhelm power sources and associated safety systems, which is why protective devices like circuit breakers and fuses are designed to detect such anomalies and disconnect power to prevent harm. The other options describe scenarios that don't accurately capture the nature of a short circuit. For example, an unintended high resistance path would not facilitate excess current flow, and the balance of voltage levels is unrelated to the mechanics of a short circuit.

5. What determines the weight rating of a ceiling box?

- A. Type of electrical outlet used
- B. Manufacturer's instructions and box design**
- C. Location of installation
- D. The height of the ceiling

The weight rating of a ceiling box is primarily determined by the manufacturer's instructions and the design of the box itself. Each ceiling box is engineered to support a specific amount of weight based on its materials, construction, and intended use, as specified by the manufacturer. This information is vital for ensuring safety and compliance with electrical codes, as it helps determine what types of fixtures or ceiling fans can be safely installed. Understanding the design and specifications allows electricians to select the appropriate box for the application, ensuring that it can support the weight of the installed fixture without risk of failure. While the type of electrical outlet, installation location, and ceiling height may influence overall project considerations, they do not directly dictate the load capacity of the ceiling box itself. The manufacturer's guidelines and the engineering behind the design are the definitive sources of information for determining how much weight a ceiling box can safely handle.

6. What determines the height for the center of the service meter on a Service Entrance?

- A. Local building codes
- B. The WAC guidelines
- C. The serving utility's requirements**
- D. The electrician's recommendation

The correct determination for the height of the center of the service meter on a Service Entrance is primarily guided by the serving utility's requirements. Utilities often have specific standards and regulations in place to ensure proper access and functionality of their equipment. These standards may encompass details such as the height at which metering equipment should be installed, which is crucial for maintenance, safety, and ease of reading the meter. While local building codes and WAC (Washington Administrative Code) guidelines may also play a role in the overall installation and specifications of electrical work, the utility's requirements typically dictate the specific installation height for service meters to accommodate their operational needs. This makes understanding the utility's guidelines essential for compliance and proper installation practices. Recommendations from electricians, while valuable in many contexts, are not authoritative when it comes to service meter height, as they must align with the established utility standards.

7. How many inspections are allowed for a plant that uses 5 electricians?

- A. 12
- B. 20
- C. 24**
- D. 30

In Washington State, the number of inspections related to electrical work a plant can be allotted is based on the number of electricians employed. For each electrician, a specific allowance of inspections is granted to ensure adequate oversight and compliance with safety regulations. In this case, with 5 electricians, the formula typically allows for a certain number of inspections per electrician, usually leading to the total number being 24. This figure ensures that projects are adequately inspected at various stages to maintain safety standards and address any potential issues promptly. Thus, for a plant utilizing 5 electricians, receiving an allowance of 24 inspections aligns with the regulatory standards set forth in the electrical codes, helping to ensure the safety and compliance of the electrical installations.

8. How far from the outside edge of a peninsular countertop must a receptacle be located?

- A. 5 feet
- B. 8 feet**
- C. 10 feet
- D. 12 feet

The correct distance for a receptacle from the outside edge of a peninsular countertop in residential and commercial electrical installations is indeed 8 feet. This guideline is established to ensure safety and practicality in the placement of electrical outlets. The 8-foot distance allows for safe use of appliances without the risk of cords being stretched across walkways or other areas where they might become tripping hazards. Additionally, this distance adheres to the National Electrical Code (NEC) standards, which are designed to minimize the chances of electrical accidents while providing convenience in access to electrical outlets for kitchen appliances and other devices. Implementing this standard ensures that receptacles are within a reasonable reach for users while maintaining an organized and safe space, especially in kitchen environments where countertop usage is high.

9. What might be a consequence of lying to the department?

- A. A minor penalty fee
- B. Criminal prosecution**
- C. Loss of benefits
- D. Extended training hours

Lying to the department can lead to criminal prosecution because providing false information can be seen as a form of fraud or misrepresentation, which is a serious offense under the law. When individuals provide false statements, especially in situations involving licensing or regulatory compliance, they can be charged with crimes that carry significant legal consequences, including fines and potential jail time. Moreover, regulatory bodies often have strict policies to ensure the integrity of their operations, and lying undermines public trust. Depending on the severity of the lie, the department would be mandated to take legal action and pursue prosecution to enforce compliance and uphold the law. Consequences like minor penalty fees, loss of benefits, or extended training hours might be more administrative in nature but would not necessarily carry the same level of severity as criminal prosecution, which is often reserved for more egregious actions like dishonesty.

10. Who is responsible for producing the affidavit of experience form for a trainee?

- A. The trainee
- B. The electrical contractor who employed the trainee**
- C. The board of electricians
- D. The state licensing authority

The correct answer is that the electrical contractor who employed the trainee is responsible for producing the affidavit of experience form. In Washington State, this form documents the on-the-job training and experiences that the trainee has gained while working under the supervision of a qualified electrical contractor. It serves as a formal acknowledgment of the skills and knowledge acquired during the apprenticeship. The contractor plays a crucial role in ensuring that the trainee is gaining the appropriate experience necessary to be eligible for licensing. This includes signing off on the trainee's hours and specific tasks completed. The importance of this documentation cannot be understated, as it is essential for the trainee's application for the journeyman electrician examination and licensing. In contrast, while the trainee benefits from the form, they do not have the authority or responsibility to produce it, since they are not in a position to verify the details of their training experience. The board of electricians and the state licensing authority are involved in regulating and overseeing training programs, but they do not produce the affidavit themselves; rather, they may rely on the documentation submitted by the electrical contractor.

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:

<https://wastatejourneyman.examzify.com>

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

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