

Washington Administrative Code(WAC) and Revised Code of Washington (RCW) Electrical Practice Exam (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. How far apart must ground rods be unless a resistance test shows otherwise?**
 - A. 10 feet**
 - B. 8 feet**
 - C. 6 feet**
 - D. 6 inches**
- 2. Which section of the WAC pertains to residential electrical installation?**
 - A. WAC 296-46B-820**
 - B. WAC 296-46B-910**
 - C. WAC 296-46B-1000**
 - D. WAC 296-46B-1200**
- 3. How often should service panels be inspected under WAC regulations?**
 - A. Every year**
 - B. Every three years**
 - C. At least every five years**
 - D. Every ten years**
- 4. Which document must be posted at the job site for regulatory compliance?**
 - A. Construction drawings**
 - B. Electrical permit**
 - C. Inspection report**
 - D. Site safety plan**
- 5. Which section outlines the license fees?**
 - A. WAC 296-46B-909**
 - B. WAC 296-46B-915**
 - C. WAC 296-46B-906**
 - D. WAC 296-46B-925**

- 6. Which WAC section specifies penalties?**
- A. WAC 296-46B-925**
 - B. WAC 296-46B-915**
 - C. WAC 296-46B-945**
 - D. WAC 296-46B-906**
- 7. How many hours of continuing education must a journeyman complete per year?**
- A. 4**
 - B. 8**
 - C. 12**
 - D. 24**
- 8. According to WAC, which factor is critical when installing equipment in hazardous locations?**
- A. Cost-effectiveness of the equipment**
 - B. Compliance with stringent installation guidelines**
 - C. Availability of backup systems**
 - D. Use of the latest technology**
- 9. Can a homeowner legally perform electrical work in their own residence?**
- A. No, homeowners are not permitted to do any electrical work**
 - B. Yes, but they must still obtain a permit and follow the code**
 - C. Yes, without any restrictions**
 - D. Only if they have prior electrical experience**
- 10. What is the amount of re-inspection fees?**
- A. \$25.00**
 - B. \$40.00**
 - C. \$46.80**
 - D. \$60.00**

Answers

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

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Explanations

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1. How far apart must ground rods be unless a resistance test shows otherwise?

- A. 10 feet**
- B. 8 feet**
- C. 6 feet**
- D. 6 inches**

The requirement for the spacing of ground rods is informed by electrical safety standards and practices. When installing ground rods, they must typically be positioned at least 6 feet apart, unless a resistance test indicates that a smaller distance is acceptable. This guideline is based on ensuring proper grounding effectiveness and minimal interference between the grounding systems. The rationale behind the spacing distance is to reduce the possibility of electrical interference and ensure that each ground rod operates independently, which enhances the overall grounding system's reliability. Spacing the rods too closely can lead to increased resistance in the grounding path, compromising the safety and functionality of the system. Therefore, adhering to the 6-foot minimum spacing is crucial, unless the results from resistance testing demonstrate otherwise, allowing for potential adjustments based on the specific site's conditions. While there may be other distances mentioned in the choices, such as 10 feet or 8 feet, they do not align with the standard practice unless specifically mandated by local codes or conditions that would warrant larger spacing. The choice of 6 inches is insufficient as it does not provide adequate separation for effective grounding. Thus, the 6-foot requirement is the accepted standard unless tested otherwise.

2. Which section of the WAC pertains to residential electrical installation?

- A. WAC 296-46B-820**
- B. WAC 296-46B-910**
- C. WAC 296-46B-1000**
- D. WAC 296-46B-1200**

The section of the Washington Administrative Code (WAC) that pertains to residential electrical installation is WAC 296-46B-910. This section specifically addresses the standards and requirements for the installation of electrical systems in residential settings. It includes regulations that ensure safety, efficiency, and compliance with the overall electrical code in residential construction. Understanding this section is crucial for anyone involved in the installation or inspection of electrical systems in homes, as it outlines the necessary procedures and guidelines that must be followed. The focus on residential installations distinguishes it from other sections that may address different types of electrical work, such as commercial installations or different classifications of electrical devices and systems. This clarity helps professionals ensure that they are adhering to the correct standards for residential projects specifically.

3. How often should service panels be inspected under WAC regulations?

- A. Every year**
- B. Every three years**
- C. At least every five years**
- D. Every ten years**

The requirement for inspecting service panels at least every five years under WAC regulations is rooted in ensuring the safety and reliability of electrical systems. Regular inspections help to identify potential issues such as corrosion, wear, and outdated components that could lead to electrical failures or hazards like fires. This five-year interval strikes a balance, allowing enough time for issues to manifest while also ensuring that maintenance and repairs can be addressed in a timely manner. The five-year inspection cycle aligns with industry standards for preventive maintenance practices, aimed at keeping electrical systems functioning safely. By adhering to this guideline, property owners and electrical professionals can work proactively to maintain safe working conditions and mitigate risks associated with electrical systems. Regular inspections enable the detection of any deviations from compliance with electrical codes and standards, helping maintain the integrity of the overall electrical infrastructure.

4. Which document must be posted at the job site for regulatory compliance?

- A. Construction drawings**
- B. Electrical permit**
- C. Inspection report**
- D. Site safety plan**

The requirement to post an electrical permit at the job site is rooted in regulatory compliance established by local building codes and the Washington Administrative Code (WAC). An electrical permit serves as official documentation that confirms the legitimacy of the electrical work being performed and that it complies with applicable codes, regulations, and safety standards. Having the electrical permit visibly posted allows inspectors, workers, and anyone else on site to confirm that the necessary permissions have been obtained before commencing any electrical work. It is a safeguard to ensure that all electrical installations meet safety and performance standards and that the contractor is authorized to conduct the work. While construction drawings, inspection reports, and site safety plans are important documents in the construction process, they do not hold the same specific regulatory requirement for posting at the job site as an electrical permit does. Consequently, the electrical permit is crucial for demonstrating compliance with the legal requirements governing electrical installations.

5. Which section outlines the license fees?

- A. WAC 296-46B-909**
- B. WAC 296-46B-915
- C. WAC 296-46B-906
- D. WAC 296-46B-925

WAC 296-46B-909 specifically addresses the topic of license fees within the context of electrical licensing in Washington. This section provides detailed information regarding the various fees associated with obtaining and maintaining electrical licenses. It is essential for individuals and businesses engaged in electrical work to be aware of these fees to ensure compliance with state regulations and budgeting for licensing costs. WAC 296-46B-915 pertains to applications for licenses, outlining the requirements and processes, while WAC 296-46B-906 relates to examination requirements for licensing. WAC 296-46B-925 deals with disciplinary actions and procedures, which do not directly address licensing fees. Therefore, while all these sections are crucial components of the Washington Administrative Code regarding electrical licensing, it is WAC 296-46B-909 that specifically focuses on the fees associated.

6. Which WAC section specifies penalties?

- A. WAC 296-46B-925
- B. WAC 296-46B-915**
- C. WAC 296-46B-945
- D. WAC 296-46B-906

The specified WAC section that deals with penalties is WAC 296-46B-915. This section outlines the consequences for violations of the electrical code, detailing both monetary fines and potential enforcement actions that can occur in the case of non-compliance with established electrical safety standards and regulations. By establishing these penalties, the WAC encourages adherence to safety practices in the electrical field, thereby protecting the public, workers, and property from electrical hazards. Focusing specifically on WAC 296-46B-915 highlights its crucial role in creating accountability and ensuring that electrical professionals maintain high standards within their work. The clarity of this section in delineating penalties is essential for maintaining compliance and promoting a safe environment in the installation and maintenance of electrical systems.

7. How many hours of continuing education must a journeyman complete per year?

- A. 4
- B. 8**
- C. 12
- D. 24

In Washington State, the requirement for continuing education for journeyman electricians is set at 8 hours per year. This requirement ensures that electricians stay current with the latest codes, technologies, and practices in the electrical field. Continuing education plays a crucial role in maintaining professional competency and safety standards within the industry. By completing 8 hours of training annually, journeymen can enhance their skills and knowledge, contributing to improved performance in their work and compliance with updated regulations and safety practices.

8. According to WAC, which factor is critical when installing equipment in hazardous locations?

- A. Cost-effectiveness of the equipment**
- B. Compliance with stringent installation guidelines**
- C. Availability of backup systems**
- D. Use of the latest technology**

The critical factor when installing equipment in hazardous locations is compliance with stringent installation guidelines. This is essential because hazardous locations present specific risks, such as the presence of flammable gases, vapors, or dust that can create explosive environments. Therefore, adherence to detailed guidelines established in WAC ensures that equipment is installed safely and effectively, mitigating potential hazards. These installation guidelines typically encompass aspects such as the type of equipment permissible for use, the protection methods needed to prevent ignition, spacing requirements, and the necessity for proper grounding. Following these regulations not only enhances safety but also ensures legal compliance and reduces liability. While cost-effectiveness, backup systems, and technology are important factors in many installations, they do not take precedence over the necessity for compliance in hazardous areas. Ignoring the established guidelines can lead to unsafe conditions regardless of the cost or technological advancements involved.

9. Can a homeowner legally perform electrical work in their own residence?

- A. No, homeowners are not permitted to do any electrical work**
- B. Yes, but they must still obtain a permit and follow the code**
- C. Yes, without any restrictions**
- D. Only if they have prior electrical experience**

Homeowners in Washington can legally perform electrical work in their own residence, but they are required to obtain a permit and adhere to the relevant electrical codes. This regulation ensures that any electrical installations or modifications are safe and meet the standards set forth by the Washington Administrative Code (WAC) and the National Electrical Code (NEC). By requiring permits and adherence to codes, the state seeks to minimize risks associated with electrical work, such as fire hazards or equipment failure, ultimately protecting both the homeowner and the public. Permitting processes include inspections, which help ensure that the work is performed correctly and safely. This requirement reflects the understanding that while homeowners may have the right to work on their own properties, it is essential for safety and compliance that their work meets established standards. The other options do not align with the established regulations; some restrict homeowner abilities without just cause, while others either allow unrestricted work or presume prior experience is necessary, which is not a requirement as long as proper permits and codes are followed.

10. What is the amount of re-inspection fees?

- A. \$25.00**
- B. \$40.00**
- C. \$46.80**
- D. \$60.00**

The amount of re-inspection fees is specified within the Washington Administrative Code (WAC) pertaining to electrical codes, which establishes guidelines for fees associated with electrical inspections. The figure of \$46.80 is identified as the standard re-inspection fee in the relevant section of the WAC. This fee is assessed to cover the administrative and operational costs incurred when an inspection needs to be conducted again due to non-compliance or other issues found during the initial inspection. Understanding the rationale behind re-inspection fees is vital. They not only serve as a financial deterrent for incomplete or non-compliant work but also help ensure that all installations meet safety standards set forth by the state. By enforcing these fees, the state encourages compliance and promotes higher standards of workmanship among electrical contractors and installers.

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://wac-rcwelectrical.examzify.com>

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