

CHAMPIONS RESIDENTIAL INSPECTIONS SAE PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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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. At what outside temperature should the air conditioning system not be inspected?**
 - A. 50 degrees F
 - B. 60 degrees F
 - C. 70 degrees F
 - D. 80 degrees F

- 2. What color and height should a gas range flame ideally be?**
 - A. Red and 1 inch
 - B. Blue and 1/4 inch
 - C. Blue and 3/4 inch
 - D. Yellow and 1/2 inch

- 3. What is an important step in minimizing the impact of termite treatments on the environment?**
 - A. Using chemical treatments only
 - B. Regular inspections and monitoring
 - C. Ignoring soil types
 - D. Using higher doses of pesticides

- 4. How long can dishwashers take to complete a cycle?**
 - A. 60 minutes
 - B. 90 minutes
 - C. 120 minutes
 - D. 30 minutes

- 5. What materials are combined to give concrete its body?**
 - A. Cement, water, and fibers
 - B. Aggregates
 - C. Additives and pigments
 - D. Sand and gravel only

- 6. What Plasticity Index is regarded as very expansive, necessitating careful site preparation?**
- A. Less than 20
 - B. 20-40
 - C. 40 or more
 - D. 10-30
- 7. Which of the following is a safety feature in residential electrical systems?**
- A. Fuse box
 - B. Circuit breaker
 - C. GFCI
 - D. All of the above
- 8. Which term is used to refer to the largest particles found in soil?**
- A. Sand
 - B. Clay
 - C. Silt
 - D. Gravel
- 9. What is the primary type of defect associated with heating and cooling systems?**
- A. Humidity Levels
 - B. Heating/Cooling Defects
 - C. Thermostat Malfunctions
 - D. Air Quality Issues
- 10. What is the term for the bottom edge of a sloped roof?**
- A. Ridge
 - B. Joist
 - C. Eave
 - D. Slope

Answers

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

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Explanations

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1. At what outside temperature should the air conditioning system not be inspected?

- A. 50 degrees F
- B. 60 degrees F**
- C. 70 degrees F
- D. 80 degrees F

An air conditioning system should not be inspected at outside temperatures below 60 degrees Fahrenheit because operating or testing an air conditioning unit in cooler temperatures can lead to inaccurate results and potentially harm the system. This is primarily due to the fact that air conditioning systems rely on a refrigerant cycle that requires both sufficient temperature and pressure conditions to operate properly. When the outdoor temperature is too low, the unit may not provide the necessary cooling effect, and its components might not function as designed. Additionally, testing at low temperatures can cause the compressor to become damaged, which can lead to costly repairs. Thus, maintaining a minimum inspection temperature helps ensure that the system is assessed accurately and safely.

2. What color and height should a gas range flame ideally be?

- A. Red and 1 inch
- B. Blue and 1/4 inch
- C. Blue and 3/4 inch**
- D. Yellow and 1/2 inch

The ideal flame for a gas range should be blue in color and approximately 3/4 inch in height. A blue flame indicates that the gas is burning efficiently and completely, which is vital for proper food preparation and safety. The blue color signifies that there is enough oxygen mixing with the gas for combustion, creating an efficient and hotter flame that is less likely to produce harmful carbon monoxide. In terms of height, the 3/4 inch measurement indicates a flame that is strong enough to provide adequate heat for cooking while maintaining safety. Flames that are too small may not adequately cook food, while flames that are significantly larger than 3/4 inch can be indicative of improper burner adjustment or too much fuel being delivered, leading to wastage and potentially hazardous conditions. In contrast, flames that are red or yellow can signal incomplete combustion, potentially leading to the production of carbon monoxide and other harmful byproducts. These color variations and improper heights represent inefficient burning and need to be addressed for both safety and optimal performance of the gas range.

3. What is an important step in minimizing the impact of termite treatments on the environment?

- A. Using chemical treatments only
- B. Regular inspections and monitoring**
- C. Ignoring soil types
- D. Using higher doses of pesticides

Regular inspections and monitoring play a crucial role in minimizing the impact of termite treatments on the environment. This proactive approach ensures that treatments are applied only when necessary, based on the actual presence of termites. By identifying infestations early through routine inspections, homeowners can avoid unnecessary chemical applications, reducing the overall use of pesticides. Additionally, monitoring helps assess the effectiveness of treatments, allowing for adjustments to be made based on observed results. This targeted strategy not only protects the environment by minimizing chemical exposure but also enhances the effectiveness of pest management efforts, ultimately leading to more sustainable practices in termite control. In contrast, relying solely on chemical treatments or using higher doses of pesticides can lead to environmental harm by increasing the risk of chemical runoff, harming non-target species, and contributing to pesticide resistance. Ignoring soil types can also negatively impact the efficacy and safety of the treatments, as different soil compositions can influence the behavior and breakdown of the chemicals used.

4. How long can dishwashers take to complete a cycle?

- A. 60 minutes
- B. 90 minutes**
- C. 120 minutes
- D. 30 minutes

A dishwasher cycle can indeed take a significant amount of time to complete, and 90 minutes is a common duration for many modern dishwashers. Various factors influence the cycle time, including the model, the selected wash cycle, the amount of soil on the dishes, and energy efficiency settings. Standard normal cycles often fall around the 90-minute mark, making it a typical timeframe for a thorough cleaning process that effectively handles different levels of soiling. Some cycles, especially quick wash options, may take less time, while heavy-duty or sanitizing cycles may extend beyond 90 minutes. Therefore, this choice aligns well with the average performance users might expect from a dishwasher.

5. What materials are combined to give concrete its body?

- A. Cement, water, and fibers
- B. Aggregates**
- C. Additives and pigments
- D. Sand and gravel only

Concrete is primarily a composite material made from aggregates, which include both coarse and fine particles. Aggregates provide the bulk and strength to the concrete. When mixed with cement, water, and, depending on the formulation, other additives and pigments, the aggregates come together to form a solid mass once they are cured. While other options may include components that can enhance certain properties of concrete or contribute to its overall appearance or workability, they do not specifically define the core structure or body of concrete. For instance, cement and water form a binding paste, but it is the aggregates that give concrete its essential physical structure and load-bearing capacity. Therefore, aggregates are the key component that gives concrete its body.

6. What Plasticity Index is regarded as very expansive, necessitating careful site preparation?

- A. Less than 20
- B. 20-40
- C. 40 or more**
- D. 10-30

The Plasticity Index (PI) is a measure of the plasticity or plastic behavior of soil, which is crucial in understanding how soil will react under different moisture conditions. A PI of 40 or more indicates that the soil has a high potential for expansion and contraction, making it very expansive. This characteristic is particularly important because expansive soils can lead to significant structural issues if not properly managed during construction. For residential inspections and site preparation, soils with a PI of 40 or more require careful attention. This often means implementing specific foundation designs, moisture control measures, or other engineering solutions to mitigate the risks associated with soil expansion. If these measures are neglected, buildings constructed on such soils can experience foundation movement, cracking, and other forms of damage over time. The other ranges, such as less than 20 or between 20-40, generally indicate soils that are either non-plastic or moderately plastic and do not carry the same level of risk. While they may still require some consideration during construction, they do not necessitate the same level of careful site preparation as soils with a PI of 40 or more. Therefore, recognizing the implications of a high Plasticity Index is essential for ensuring the stability and longevity of structures built on expansive soils.

7. Which of the following is a safety feature in residential electrical systems?

- A. Fuse box
- B. Circuit breaker
- C. GFCI
- D. All of the above**

In residential electrical systems, safety features are designed to prevent electrical hazards and ensure the well-being of occupants. Each of the choices provided serves a distinct purpose in enhancing safety. The fuse box is a crucial component that protects wiring and appliances from excessive current. When a fault occurs, the fuse melts, interrupting the circuit and preventing potential fires or damage. Circuit breakers serve a similar function as fuses but can be reset after they trip. They automatically disconnect the power when an overload or short circuit is detected, protecting the circuit from damage and reducing fire risks. GFCI, or Ground Fault Circuit Interrupter, is specifically designed to protect against electrical shock and is commonly used in areas such as bathrooms and kitchens where moisture is present. It quickly cuts off electrical supply if it detects an imbalance, indicating a fault such as water contact. Considering these functionalities, each option contributes to the safety of electrical systems in different ways, making "all of the above" the most comprehensive answer, as it encompasses a range of protective measures that work together to prevent electrical hazards.

8. Which term is used to refer to the largest particles found in soil?

- A. Sand
- B. Clay
- C. Silt
- D. Gravel**

The term that refers to the largest particles found in soil is gravel. Gravel consists of larger particles that are generally greater than 2 millimeters in diameter and can include stones and small rocks. This classification indicates that gravel particles are coarser than sand, silt, or clay, which are smaller in size. Understanding the particle sizes in soil is important for various applications in agriculture, construction, and environmental assessments, as the type and size of soil particles influence drainage, nutrient availability, and soil stability.

9. What is the primary type of defect associated with heating and cooling systems?

- A. Humidity Levels
- B. Heating/Cooling Defects**
- C. Thermostat Malfunctions
- D. Air Quality Issues

The primary type of defect associated with heating and cooling systems is often classified as heating/cooling defects. This encompasses a range of issues that directly affect the system's ability to regulate temperature effectively, which is its primary function. Heating and cooling systems can experience a variety of defects including, but not limited to, inadequate heating or cooling, inconsistent temperatures, strange noises, and complete system failures. These defects can stem from various mechanical issues, electrical problems, or inefficiencies due to age and wear. While aspects like humidity levels, thermostat malfunctions, and air quality issues can certainly be related to heating and cooling systems and can impact overall comfort and efficiency, they are typically considered secondary issues. For instance, humidity levels may affect how comfortable a space feels, but they do not directly pertain to the heating or cooling capability of the system. Similarly, thermostat malfunctions might be a symptom of a larger heating or cooling defect, rather than a primary defect in the system itself. Air quality issues relate to the output of heating and cooling systems but do not directly describe the functionality or defects of the system. Thus, when focusing on defects that specifically affect heating and cooling performance, heating/cooling defects emerge as the most relevant category.

10. What is the term for the bottom edge of a sloped roof?

- A. Ridge
- B. Joist
- C. Eave**
- D. Slope

The bottom edge of a sloped roof is referred to as the eave. The eave is an essential part of the roof structure, as it extends beyond the walls of the building and provides protection from rain and snow, helping to direct water away from the foundation and exterior walls. Additionally, eaves often support gutters, which further assist in channeling water away and preventing potential water damage. Understanding the role of the eave helps in grasping how roofing systems function effectively in managing water drainage and enhancing the building's aesthetics.

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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