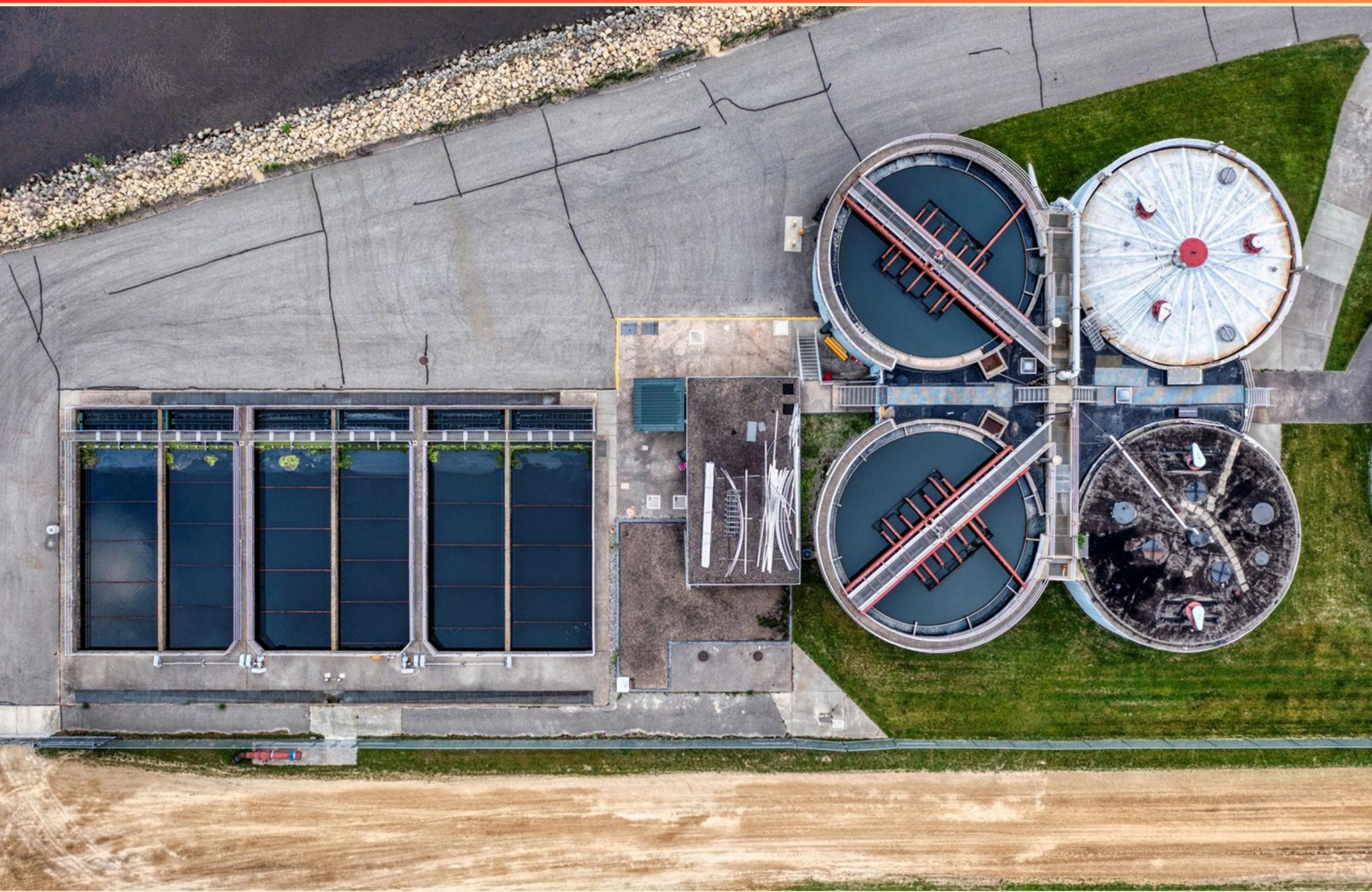


SCDHEC ONSITE WASTEWATER SYSTEMS (REGULATION 61-56) PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

**VISIT US ONLINE FOR
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	16

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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 "site" defined in the context of onsite wastewater system applications?**
 - A. The location of the wastewater treatment plant
 - B. Any natural area without buildings
 - C. A plot of land identified in legal documents
 - D. A community zone designated for development
- 2. What do gray water subsurface reuse systems do?**
 - A. Collect and treat gray water for direct use
 - B. Reuse gray water for subsurface irrigation
 - C. Only discharge gray water into storm drains
 - D. Convert gray water into drinking water
- 3. Which of the following describes alternative infiltration trench products?**
 - A. Products intended for surface-level wastewater management
 - B. Traditional materials used for all types of trench systems
 - C. Designed to replace aggregate in subsurface infiltration trenches
 - D. Materials that do not require Department approval
- 4. What type of systems can Tier 1 installers manage?**
 - A. All types of commercial wastewater systems
 - B. Gravity-fed residential onsite wastewater systems
 - C. High-tech sewage treatment plants
 - D. Only residential systems requiring repairs
- 5. What is a restrictive horizon?**
 - A. A soil layer that promotes water movement
 - B. A layer capable of retarding groundwater movement
 - C. A layer rich in organic materials
 - D. A surface layer exposed to the atmosphere

- 6. What does a wastewater combustion system primarily utilize for the treatment of wastewater?**
- A. Incineration and chemical treatment
 - B. Maceration and incineration
 - C. Filtration and aeration
 - D. Biological treatment and oxidation
- 7. What is the primary purpose of gel coating?**
- A. To enhance structural integrity
 - B. To provide a smooth, watertight surface
 - C. To reduce weight in construction materials
 - D. To strengthen bond strength between layers
- 8. What is one of the major risks of groundwater contamination from onsite wastewater systems?**
- A. Increase in property value
 - B. Potential health hazards to the population
 - C. Enhanced water clarity
 - D. Support of agricultural activities
- 9. Which of the following illustrates the function of a septic tank?**
- A. Storing stormwater overflow
 - B. Separating solids from liquids in wastewater
 - C. Providing irrigation for plants
 - D. Collecting rainwater
- 10. Why are soil percolation rates important in onsite wastewater system selection?**
- A. They determine the color of the wastewater
 - B. They affect how quickly effluent is absorbed and treated by the soil
 - C. They indicate how much space is needed on the property
 - D. They determine the type of plants that can grow

Answers

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

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Explanations

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1. How is "site" defined in the context of onsite wastewater system applications?

- A. The location of the wastewater treatment plant
- B. Any natural area without buildings
- C. A plot of land identified in legal documents**
- D. A community zone designated for development

In the context of onsite wastewater system applications, "site" is defined as a plot of land identified in legal documents. This definition is important because it establishes a clear legal boundary for the property where the wastewater system will be installed and maintained. Understanding the definition of "site" is critical for ensuring that wastewater management complies with local regulations and standards, as it determines the specific area under consideration for environmental assessments, permitting, and system design. The other options do not accurately capture the regulatory and legal context necessary for onsite wastewater systems. For instance, the location of a wastewater treatment plant may be relevant for larger systems but does not pertain to an individual onsite system. A natural area without buildings does not necessarily indicate legal ownership or boundary conditions, making it vague and imprecise. Lastly, a community zone designated for development may apply to broader urban planning concepts but lacks the specificity required for individual onsite wastewater systems operating under legal frameworks. Therefore, the correct understanding of "site" is integral to adhering to the regulatory requirements set forth by SCDHEC.

2. What do gray water subsurface reuse systems do?

- A. Collect and treat gray water for direct use
- B. Reuse gray water for subsurface irrigation**
- C. Only discharge gray water into storm drains
- D. Convert gray water into drinking water

Gray water subsurface reuse systems are designed specifically to utilize gray water, which is the relatively clean wastewater generated from domestic activities such as washing dishes, laundry, and bathing. The primary function of these systems is to reuse gray water for subsurface irrigation, effectively providing a sustainable solution for water management. By allowing gray water to be reused in this manner, the systems help conserve potable water for activities that require higher quality water, such as drinking or cooking. Subsurface irrigation with treated gray water also promotes better water conservation practices, as it can enrich the soil moisture and support plant growth without the need for traditional potable water resources. This approach not only maximizes the value of available water resources but also reduces the volume of wastewater that would otherwise require treatment and disposal. The option mentioning the collection and treatment of gray water for direct use is not accurate in this context, as it implies a different application than subsurface irrigation. Similarly, the options regarding discharging gray water into storm drains or converting it into drinking water do not align with the intended purpose and functionality of gray water subsurface reuse systems.

3. Which of the following describes alternative infiltration trench products?

- A. Products intended for surface-level wastewater management
- B. Traditional materials used for all types of trench systems
- C. Designed to replace aggregate in subsurface infiltration trenches**
- D. Materials that do not require Department approval

The selection of the answer highlighting that alternative infiltration trench products are designed to replace aggregate in subsurface infiltration trenches is grounded in the purpose and functionality of these products. Alternative infiltration trench systems are developed to provide efficient drainage and wastewater treatment by mimicking the function of traditional aggregate, but often using advanced materials or structural designs. These alternatives can enhance characteristics such as infiltration rates, clog resistance, and the overall effectiveness of the treatment process, addressing limitations that conventional aggregate might present. By replacing aggregate, these products can lead to improved performance in limited spaces or soils with specific challenges, thereby fulfilling a crucial role in modern onsite wastewater management systems. In contrast, while other options mention surface-level management, traditional materials, or lack of approval requirements, none accurately encapsulate the primary function and benefit of alternative infiltration trench products. Specifically, surface-level management typically does not address subsurface infiltration needs, traditional materials do not account for innovative alternatives, and the requirement for Department approval is critical to ensure compliance with regulatory standards, thus making those choices less applicable.

4. What type of systems can Tier 1 installers manage?

- A. All types of commercial wastewater systems
- B. Gravity-fed residential onsite wastewater systems**
- C. High-tech sewage treatment plants
- D. Only residential systems requiring repairs

Tier 1 installers are specifically trained and authorized to manage gravity-fed residential onsite wastewater systems. These systems are simpler in design and operation compared to other types of systems, making them suitable for installers at this training level. The focus on gravity-fed systems allows these installers to effectively install and maintain systems that are commonly found in residential settings, ensuring they adhere to the necessary regulations and standards outlined by SCDHEC. This specialization helps to ensure that installations are conducted safely and efficiently, reducing the risk of environmental contamination associated with improper wastewater management. The other options represent types of systems that require different levels of expertise or technology, which are not covered by the Tier 1 training.

5. What is a restrictive horizon?

- A. A soil layer that promotes water movement
- B. A layer capable of retarding groundwater movement**
- C. A layer rich in organic materials
- D. A surface layer exposed to the atmosphere

A restrictive horizon refers to a specific layer within the soil profile that has characteristics capable of slowing down or impeding the movement of groundwater. This can occur due to various properties, such as compaction, low porosity, or the presence of clay minerals that restrict water flow. Identifying such a horizon is crucial when evaluating soil for onsite wastewater systems, as it can affect the drainage capacity and overall efficiency of the system. The presence of a restrictive horizon can lead to increased risks of groundwater contamination and can necessitate specific design modifications to wastewater systems to ensure environmental protection and compliance with regulations. Understanding this concept is fundamental for professionals working with onsite wastewater systems, ensuring they assess soil layers effectively to determine suitability for such systems. The incorrect options, while relevant in soil science, do not accurately reflect the definition of a restrictive horizon. For instance, a layer that promotes water movement signifies good drainage properties, which contradicts the concept of a restrictive horizon. Similarly, a layer rich in organic materials or a surface layer exposed to the atmosphere describes other characteristics of soil that are unrelated to the movement of groundwater and do not function as barriers to it.

6. What does a wastewater combustion system primarily utilize for the treatment of wastewater?

- A. Incineration and chemical treatment
- B. Maceration and incineration**
- C. Filtration and aeration
- D. Biological treatment and oxidation

A wastewater combustion system primarily utilizes incineration for the treatment of wastewater. This technology involves applying extreme heat to reduce the volume of waste and eliminate pathogens present in the wastewater. The process converts organic material into ash, gases, and heat, effectively treating the waste through thermal destruction. This method is particularly effective for reducing the mass of waste and achieving high levels of disinfection. Maceration, while sometimes a part of the broader wastewater treatment process, helps in shredding or grinding solid waste into smaller particles but is not the primary function of a combustion system. The focus of combustion systems is mainly on incineration as the core treatment process, which distinguishes them from other systems that may employ methods like filtration, biological treatment, or aeration.

7. What is the primary purpose of gel coating?

- A. To enhance structural integrity
- B. To provide a smooth, watertight surface**
- C. To reduce weight in construction materials
- D. To strengthen bond strength between layers

The primary purpose of gel coating is to provide a smooth, watertight surface. Gel coatings are commonly used in various applications, including the manufacturing of composites, to enhance the appearance and durability of the surface. This coating not only improves the aesthetic qualities by offering a glossy finish but also acts as a protective layer that shields the underlying materials from moisture, UV radiation, and chemicals. By creating a watertight barrier, gel coatings help prevent water infiltration, which can lead to deterioration over time. In contrast, while enhancing structural integrity plays a significant role in overall material performance, it is not the primary function of gel coating. Additionally, reducing weight in construction materials addresses material efficiency rather than surface properties, which gel coating does not specifically aim to achieve. Lastly, although strengthening bond strength between layers can be important in composite construction, gel coating focuses more on surface smoothness and protection rather than reinforcing adhesive connections.

8. What is one of the major risks of groundwater contamination from onsite wastewater systems?

- A. Increase in property value
- B. Potential health hazards to the population**
- C. Enhanced water clarity
- D. Support of agricultural activities

One of the major risks of groundwater contamination from onsite wastewater systems is the potential health hazards to the population. When wastewater is not properly treated and managed, harmful pathogens, bacteria, viruses, and chemicals can leach into the groundwater. This poses serious health risks, especially for individuals relying on well water for drinking and other uses. Contaminated groundwater can lead to illnesses ranging from gastrointestinal infections to more severe diseases, depending on the pathogens present. Public health is a primary concern when it comes to the infrastructure and maintenance of onsite wastewater systems because improper functioning can have widespread consequences for both individual and community health. The other options do not address the serious implications of groundwater contamination. An increase in property value, enhanced water clarity, and support of agricultural activities are not direct risks associated with onsite wastewater systems. In fact, they can often be negatively impacted by contamination, as property values may decrease in areas known for environmental hazards, and agricultural practices may be compromised by polluted water.

9. Which of the following illustrates the function of a septic tank?

- A. Storing stormwater overflow
- B. Separating solids from liquids in wastewater**
- C. Providing irrigation for plants
- D. Collecting rainwater

The function of a septic tank is primarily to separate solids from liquids in wastewater. This process is crucial for the treatment of onsite wastewater systems. When wastewater from a home flows into the septic tank, the tank allows solids to settle at the bottom, forming sludge, while lighter materials like fats and oils float to the top, creating a scum layer. The clarified liquid in between is known as effluent, which is then directed to a drain field for further treatment and dispersal into the soil. This separation process is vital because it prevents solids from clogging the subsequent components of the wastewater treatment system and ensures that only the liquid effluent proceeds to the next step in the treatment process. Understanding this role is fundamental for anyone involved in the management and maintenance of onsite wastewater systems. The other choices do not reflect the primary function of a septic tank.

10. Why are soil percolation rates important in onsite wastewater system selection?

- A. They determine the color of the wastewater
- B. They affect how quickly effluent is absorbed and treated by the soil**
- C. They indicate how much space is needed on the property
- D. They determine the type of plants that can grow

Soil percolation rates are crucial in the selection of onsite wastewater systems because they directly influence the speed at which effluent is absorbed and treated by the soil. Percolation rate measures how quickly water moves through the soil, which affects the performance and effectiveness of a septic system. If the soil has a fast percolation rate, the wastewater can be quickly absorbed, which might necessitate careful management to ensure that contaminants are effectively treated before they enter the groundwater. Conversely, if the percolation rate is slow, it could lead to issues such as effluent pooling on the surface or inadequate treatment, resulting in potential environmental hazards. Understanding these rates helps determine suitable system designs and configurations that will ensure proper wastewater management, protect public health, and maintain environmental integrity.

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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