

NEHA Water Supply Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

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- 1. What type of waste is typically a concern when evaluating potential drinking water sources?**
 - A. Biological waste and chemical pollutants**
 - B. Only solid waste materials**
 - C. Organic food waste**
 - D. Radioactive waste**

- 2. Why is seasonal water quality monitoring important?**
 - A. To standardize water treatment procedures**
 - B. To track changes in water quality associated with seasonal variations and activities**
 - C. To measure the cost of water supply**
 - D. To determine the demand for water during different seasons**

- 3. What type of rocks include slate, soapstone, marble, or serpentine?**
 - A. Igneous**
 - B. Metamorphic**
 - C. Sedimentary**
 - D. Volcanic**

- 4. What does the quality of surface water depend on?**
 - A. The watershed area drained, land use, location and sources of pollution, and the natural agencies of purification**
 - B. Temperature and weather conditions**
 - C. Human population density in the area**
 - D. Age of the water in the system**

- 5. What is a cross-connection in water systems?**
 - A. A union between two water treatment facilities**
 - B. A connection between potable and non-potable water sources**
 - C. A method of water pipeline maintenance**
 - D. A type of water filtration system**

6. What presence in water is a strong indicator of fecal contamination?

- A. Chlorine**
- B. Pseudomonas**
- C. Coliforms**
- D. Nitrates**

7. What is used to control the growth of algae and protozoa?

- A. Chlorination**
- B. Filtration**
- C. Boiling**
- D. Flocculation**

8. What protects the flushometer valve?

- A. A pressure relief valve**
- B. A non-pressure-type vacuum breaker**
- C. A backflow prevention device**
- D. Temperature control valve**

9. What are the two major classifications of water supply?

- A. Rainwater and wastewater**
- B. Groundwater and desalinated water**
- C. Groundwater and surface water**
- D. Well water and surface runoff**

10. What is one method of measuring disinfection effectiveness in water treatment?

- A. Measuring chemical concentration**
- B. Measuring the reduction of coliform bacteria**
- C. Measuring total dissolved solids**
- D. Measuring temperature changes**

Answers

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

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Explanations

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1. What type of waste is typically a concern when evaluating potential drinking water sources?

- A. Biological waste and chemical pollutants**
- B. Only solid waste materials**
- C. Organic food waste**
- D. Radioactive waste**

Biological waste and chemical pollutants are a significant concern when evaluating potential drinking water sources because they can directly impact water quality and safety. Biological waste, such as pathogens from human or animal waste, poses a high risk of waterborne diseases. This is particularly critical in areas where untreated sewage can contaminate nearby water sources. Chemical pollutants encompass a wide range of substances, including heavy metals, pesticides, industrial chemicals, and pharmaceuticals, which can leach into water supplies and cause health risks. These contaminants can lead to both acute and chronic health issues for consumers, making their detection and management vital in safeguarding drinking water. In contrast, solid waste materials alone do not necessarily threaten drinking water quality unless they also contribute to leachate or other forms of contamination. Organic food waste typically decomposes without significant long-term impacts on drinking water if managed correctly, while radioactive waste is usually found in specific locations and situations that may not generally pertain to typical drinking water source assessments. Thus, the combined impact of biological waste and chemical pollutants makes this choice the most relevant when considering the risks associated with drinking water sources.

2. Why is seasonal water quality monitoring important?

- A. To standardize water treatment procedures**
- B. To track changes in water quality associated with seasonal variations and activities**
- C. To measure the cost of water supply**
- D. To determine the demand for water during different seasons**

Seasonal water quality monitoring is vital because it allows for the observation and assessment of how water quality fluctuates over time, particularly in relation to seasonal changes and human activities. Different seasons can introduce various environmental factors that significantly impact water sources; for example, spring runoff can introduce higher levels of sediments and nutrients following snowmelt, whereas summer might see increased temperatures and recreational activities that could lead to pollution. By tracking these changes, water quality monitoring can identify potential issues such as the rise in harmful bacteria levels during warmer months or the effects of agricultural runoff during planting or harvesting seasons. This data is essential for managing water resources effectively, ensuring that treatment facilities can adjust their processes to maintain safe and clean drinking water and for informing the public and policy-makers about the state of water resources throughout the year. This kind of proactive monitoring helps prevent health risks associated with poor water quality and guides environmental protection efforts.

3. What type of rocks include slate, soapstone, marble, or serpentine?

- A. Igneous**
- B. Metamorphic**
- C. Sedimentary**
- D. Volcanic**

The group of rocks that includes slate, soapstone, marble, and serpentine is categorized as metamorphic rocks. Metamorphic rocks are formed from the alteration of existing rock types through heat, pressure, and chemically active fluids. This process, known as metamorphism, transforms the original rock, often changing its mineral composition and texture. Slate, for instance, originates from shale and is characterized by its fine-grained texture and ability to cleave into sheets. Soapstone is formed mainly from talc and exhibits a soft texture, making it valuable for carving and as a heat-resistant material. Marble, a metamorphosed form of limestone, features a crystalline structure and is commonly used in sculpture and architecture. Serpentine, which forms from the hydration of certain ultramafic rocks, is recognized for its greenish color and is often used as a decorative stone. Each of these rocks demonstrates the effects of metamorphism, which is central to their formation and distinct characteristics, confirming their classification as metamorphic rocks.

4. What does the quality of surface water depend on?

- A. The watershed area drained, land use, location and sources of pollution, and the natural agencies of purification**
- B. Temperature and weather conditions**
- C. Human population density in the area**
- D. Age of the water in the system**

The quality of surface water is fundamentally influenced by various environmental and anthropogenic factors that pertain to the watershed from which the water is sourced. The watershed area drained is crucial as it determines the volume of water and influences the types of contaminants present based on land use practices within that area. For instance, agricultural runoff may introduce fertilizers and pesticides, while urban areas may contribute pollutants from stormwater. Location is also pivotal, as different geographical areas may be more prone to specific types of pollution depending on industrial activities, residential waste, or natural occurrences. Additionally, the sources of pollution, whether they stem from point sources like factories or non-point sources like agricultural fields, significantly impact water quality. Natural agencies of purification, such as soil and vegetation, play a fundamental role in treating and filtering out contaminants as water flows through the environment. Therefore, the interplay of these elements collectively determines the overall quality of surface water, making it clear why this option represents the most comprehensive understanding of the factors affecting water quality.

5. What is a cross-connection in water systems?

- A. A union between two water treatment facilities
- B. A connection between potable and non-potable water sources**
- C. A method of water pipeline maintenance
- D. A type of water filtration system

A cross-connection refers to a direct connection between a potable (drinkable) water source and a non-potable water source. This is significant because it poses a risk of contamination to the safe drinking water supply. If pressure changes occur in the water system, there is potential for non-potable water to siphon into the potable supply, leading to health hazards from pollutants, chemicals, or pathogens. The purpose of identifying and managing cross-connections is to protect public health and ensure that the water supplied for consumption remains safe. Cross-connections are commonly found in situations like irrigation systems accessing well water, or plumbing fixtures that may allow contaminated water to backflow into clean water lines. In contrast, other options mention aspects of water systems that do not directly relate to the dangerous interaction of potable and non-potable sources. For example, a union between two water treatment facilities and methods of pipeline maintenance do not involve the concept of safety regarding water quality in the way that cross-connections do. Similarly, a type of water filtration system does not pertain to the definition or implications of cross-connections in water systems.

6. What presence in water is a strong indicator of fecal contamination?

- A. Chlorine
- B. Pseudomonas
- C. Coliforms**
- D. Nitrates

The presence of coliforms in water is a strong indicator of fecal contamination because these bacteria are commonly found in the intestines of warm-blooded animals, including humans. When coliforms are detected in water, it suggests that the water may have been contaminated with fecal matter, which can introduce pathogenic microorganisms that pose health risks to humans. Coliforms, particularly fecal coliforms like *Escherichia coli* (*E. coli*), are used as an indicator organism in water quality testing because they are relatively easy to measure and their presence correlates with the potential presence of harmful pathogens. Water systems are often monitored for coliform bacteria to assess their safety and potability, making it a critical component of water quality management. Other options, such as chlorine, are used as disinfectants in water treatment and do not indicate contamination. Pseudomonas can be found in a variety of environments, not specifically linked to fecal matter, while nitrates may indicate agricultural runoff or sewage but are not a direct indicator of fecal contamination like coliforms are. Therefore, coliforms serve as the standard marker for assessing water contamination related to fecal sources.

7. What is used to control the growth of algae and protozoa?

- A. Chlorination
- B. Filtration**
- C. Boiling
- D. Flocculation

The correct choice for controlling the growth of algae and protozoa in water supply systems is chlorination. Chlorination involves adding chlorine or chlorine compounds to water, which acts as a disinfectant. It is effective in killing a variety of microorganisms, including algae and protozoa, thereby preventing their growth and ensuring water safety for human consumption. While filtration is used to remove particles and some microorganisms from water, it does not specifically target the control of algae and protozoa like chlorination does. Boiling water is effective in killing many pathogens, but it is not typically used on a large scale for controlling algae growth. Flocculation is a process that helps in the aggregation of particles for easier removal from water but does not directly kill or control the growth of microorganisms. Therefore, chlorination is the preferred method for effectively managing and preventing the growth of algae and protozoa in water systems.

8. What protects the flushometer valve?

- A. A pressure relief valve
- B. A non-pressure-type vacuum breaker**
- C. A backflow prevention device
- D. Temperature control valve

The flushometer valve is designed to control the flow of water in toilet systems, and it requires protection from back siphonage or backflow, which can contaminate the potable water supply. The non-pressure-type vacuum breaker serves this purpose by preventing these backflow issues. It works by allowing air to enter the system when a negative pressure is detected, effectively stopping the reverse flow of contaminated water into the clean water supply. This device is crucial in maintaining the safety and health of the water system, thus ensuring that any potential contaminants cannot travel back into the clean drinking water. Other devices, such as pressure relief valves or temperature control valves, do not effectively address the specific risk of backflow in the context of flushometer valves. By integrating a non-pressure-type vacuum breaker, the system remains compliant with health regulations and protects public health.

9. What are the two major classifications of water supply?

- A. Rainwater and wastewater**
- B. Groundwater and desalinated water**
- C. Groundwater and surface water**
- D. Well water and surface runoff**

The two major classifications of water supply are groundwater and surface water due to their fundamental differences in source and characteristics. Groundwater is stored in aquifers beneath the earth's surface and is typically accessed through wells. It is often purer and less susceptible to direct contamination from surface activities, making it a crucial source for drinking and irrigation. Surface water, on the other hand, includes rivers, lakes, and reservoirs, and is directly affected by environmental factors, such as rainfall and climatic conditions. It serves as a primary source for many municipal water supplies and is essential for ecosystems. Understanding these classifications is vital for water resource management and planning. It helps in developing strategies for sustainable use, pollution control, and ensuring that communities have access to clean and safe water. Other classifications mentioned, such as rainwater, wastewater, and desalinated water, while important, fall under specific categories of water within the broader definitions of groundwater and surface water.

10. What is one method of measuring disinfection effectiveness in water treatment?

- A. Measuring chemical concentration**
- B. Measuring the reduction of coliform bacteria**
- C. Measuring total dissolved solids**
- D. Measuring temperature changes**

Measuring the reduction of coliform bacteria is a key method for assessing the effectiveness of disinfection in water treatment. Coliform bacteria serve as an indicator of the presence of pathogens and other harmful microorganisms. By determining the reduction in coliform levels before and after disinfection, water treatment facilities can gauge how effectively the disinfection process eliminates not just coliforms but also potentially harmful bacteria and viruses. This method is critical because a significant reduction in coliform bacteria implies that the disinfection process is likely effective in ensuring the water is safe for consumption. Other indicators, like chemical concentration, may provide insight into the presence of disinfectants but do not directly measure biological effectiveness. Total dissolved solids focus on inorganic and organic matter in water rather than specific microbial pathogens, and temperature changes are not indicative of disinfection efficacy in terms of microbial reduction. Therefore, focusing on coliform reduction provides a relevant and direct measure of the disinfection process's effectiveness.

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://nehawatersupply.examzify.com>

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

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