

WSO WATER TREATMENT GRADE 1 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. What is a significant concern when using a direct river intake for drinking water treatment?**
 - A. Consistent water quality throughout the year
 - B. Rapid changes in water quality from natural and human activity
 - C. Reduced water quantity during droughts
 - D. Limited access to river water
- 2. What is the term used for the removal of settleable solids by gravity?**
 - A. Filtration
 - B. Coagulation
 - C. Sedimentation
 - D. Flocculation
- 3. Which gas occurs mainly in groundwater, is heavier than air, and is odoriferous?**
 - A. Carbon Dioxide
 - B. Methane
 - C. Hydrogen Sulfide
 - D. Nitrogen
- 4. Why are filter operation records crucial?**
 - A. To evaluate employee performance
 - B. To detect trends in slow-developing problems and optimize performance
 - C. To schedule staff training sessions
 - D. To maintain chemical inventory records
- 5. What is the implication of a sanitary survey finding issues in a water supply system?**
 - A. It indicates adequate water quality
 - B. It leads to a waiver of further testing
 - C. It necessitates corrective actions
 - D. It confirms seasonal water usage

- 6. Which of the following is NOT a reason that meters, recorders, alarms, and automatic control systems are installed in a water plant?**
- A. To improve operational efficiency
 - B. To enhance safety measures
 - C. To reduce costs of labor
 - D. To reduce the need for written documentation
- 7. What are the main causes of algae blooms in water bodies?**
- A. Increased salinity and lack of sunlight
 - B. High temperatures and elevated oxygen levels
 - C. Increased nutrients, ideal temperature, plentiful sunlight, specific algae types
 - D. Low pH and minimal nutrient supply
- 8. Which of the following is NOT a class of employee designated to work in confined spaces?**
- A. Hazard technician
 - B. Maintenance worker
 - C. Respiratory technician
 - D. Safety supervisor
- 9. Which of the following is NOT a term used to rank the distance between bars in a bar screen?**
- A. Wide
 - B. Narrow
 - C. Medium
 - D. Close
- 10. Static electricity is often referred to as what?**
- A. Electricity at motion
 - B. Electricity at rest
 - C. Fluid electricity
 - D. Potential electricity

Answers

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

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Explanations

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1. What is a significant concern when using a direct river intake for drinking water treatment?

- A. Consistent water quality throughout the year
- B. Rapid changes in water quality from natural and human activity**
- C. Reduced water quantity during droughts
- D. Limited access to river water

Using a direct river intake for drinking water treatment presents significant challenges, particularly due to rapid changes in water quality that can occur as a result of both natural processes and human activities. Rivers are dynamic environments that can be influenced by seasonal variations, weather events, and human interference such as industrial discharges, agricultural runoff, and urban development. These factors can lead to fluctuations in contaminants, turbidity, temperature, and overall water chemistry, impacting the effectiveness of treatment processes and the safety of the drinking water supply. For instance, during heavy rain or flooding, runoff can introduce sediments and pollutants into the river, while drought conditions may concentrate contaminants in smaller volumes of water. The ability to manage these variations is critical for ensuring that the treated water meets health standards consistently. Thus, the concern addressing the unpredictability and variability in water quality is a key factor when utilizing direct river intakes for water treatment.

2. What is the term used for the removal of settleable solids by gravity?

- A. Filtration
- B. Coagulation
- C. Sedimentation**
- D. Flocculation

The removal of settleable solids by gravity is referred to as sedimentation. This process involves allowing heavier particles in a liquid to settle at the bottom of a container due to the pull of gravity. As the settleable solids sink, clearer liquid rises to the top, which can then be removed or treated further. Sedimentation is an essential step in many water treatment processes as it effectively reduces the concentration of suspended solids, allowing for improved water clarity and quality before additional treatment methods, such as filtration, are applied. It is a straightforward but critical method of achieving solids separation from a liquid. Filtration, while also a method for solid removal, uses a physical barrier to capture particles, rather than relying solely on gravity. Coagulation involves the addition of chemicals to aggregate fine particles into larger clumps (flocs) for easier removal, but it does not itself involve the settling process. Flocculation follows coagulation and is the gentle mixing that promotes the growth of flocs, but it does not describe the process of solids settling by gravity. Hence, the term that best fits the removal of settleable solids by gravity is sedimentation.

3. Which gas occurs mainly in groundwater, is heavier than air, and is odoriferous?

- A. Carbon Dioxide
- B. Methane
- C. Hydrogen Sulfide**
- D. Nitrogen

The correct choice identifies hydrogen sulfide as the gas that occurs mainly in groundwater, is heavier than air, and has a distinct odor. Hydrogen sulfide is often associated with anaerobic bacteria that break down organic material in the absence of oxygen, leading to its presence in groundwater, especially in areas with high organic content or certain geological formations. This gas is notable for its characteristic smell, reminiscent of rotten eggs, making it identifiable even at low concentrations. Additionally, its density is greater than that of air, which means that it can accumulate in low-lying areas or confined spaces. This property can pose safety risks, especially in situations where it might displace oxygen or lead to toxic exposure. In contrast, the other gases mentioned do not fully meet the criteria. Carbon dioxide, while heavier than air and present in groundwater, does not have a distinctive odor and is not specifically associated with the characteristics outlined. Methane is also lighter than air and primarily found in gas-producing environments rather than primarily groundwater. Nitrogen, being a colorless and odorless gas, lacks the distinct smell required in the question. Thus, hydrogen sulfide stands out as the option that fits all aspects of the question.

4. Why are filter operation records crucial?

- A. To evaluate employee performance
- B. To detect trends in slow-developing problems and optimize performance**
- C. To schedule staff training sessions
- D. To maintain chemical inventory records

Filter operation records are essential because they provide valuable insights into the performance and efficiency of water treatment processes over time. By analyzing these records, operators can identify trends and patterns that may indicate slow-developing problems, such as filter failures or reduced effectiveness. This proactive monitoring allows for timely interventions to resolve issues before they escalate, ensuring that the water treatment system operates at optimal performance levels. Additionally, these records can highlight when filters are not performing as expected, enabling operators to make data-driven decisions regarding maintenance and adjustments. This focus on performance optimization helps maintain water quality and compliance with regulatory standards while also potentially reducing operational costs. In contrast, while evaluating employee performance, scheduling staff training sessions, and maintaining chemical inventory are important aspects of water treatment operations, they are not the primary purpose of filter operation records. The primary goal of these records is to monitor and analyze filter performance to enhance the overall efficiency and reliability of water treatment processes.

5. What is the implication of a sanitary survey finding issues in a water supply system?

- A. It indicates adequate water quality
- B. It leads to a waiver of further testing
- C. It necessitates corrective actions**
- D. It confirms seasonal water usage

A sanitary survey is a comprehensive assessment of a water supply system, designed to identify potential sources of contamination and evaluate the overall integrity of the treatment and distribution systems. When such a survey uncovers issues, it suggests that there are vulnerabilities that could compromise water quality and public health. As a result, corrective actions become essential to address these findings. This may include implementing repairs, enhancing treatment processes, or instituting more rigorous monitoring protocols to ensure that the water supply meets safety standards. While other options touch on different aspects of water quality and regulations, they do not accurately reflect the consequences of discovering issues during a sanitary survey. Addressing the identified problems is crucial for maintaining the safety and reliability of the water supply. In essence, a positive response in the form of corrective actions is necessary to protect public health and ensure compliance with water quality standards.

6. Which of the following is NOT a reason that meters, recorders, alarms, and automatic control systems are installed in a water plant?

- A. To improve operational efficiency
- B. To enhance safety measures
- C. To reduce costs of labor
- D. To reduce the need for written documentation**

Meters, recorders, alarms, and automatic control systems in a water treatment plant are primarily designed to improve overall operational efficiency, enhance safety measures, and manage labor costs. Each of these elements plays a critical role in the effective functioning of the plant. Improving operational efficiency is one of the primary purposes of such systems. By providing real-time data on water quality and system performance, these tools allow operators to make informed decisions quickly and effectively, ensuring the plant runs smoothly. Safety measures are also significantly enhanced through the use of alarms and automated systems. These devices can detect irregularities or dangerous conditions in the system, alerting operators to potential issues before they escalate into serious problems. Additionally, cost savings related to labor can be achieved; automation and reliable monitoring reduce the need for constant human oversight, allowing staff to focus on more complex tasks while routine monitoring is handled by the automated systems. The option indicating that these systems are installed to reduce the need for written documentation is not accurate. In fact, while automation may streamline some data collection processes, thorough documentation remains essential in water treatment operations for regulatory compliance, operational history, and quality assurance. Hence, the correct choice reflects a misconception about the role of these systems in documentation practices.

7. What are the main causes of algae blooms in water bodies?

- A. Increased salinity and lack of sunlight
- B. High temperatures and elevated oxygen levels
- C. Increased nutrients, ideal temperature, plentiful sunlight, specific algae types**
- D. Low pH and minimal nutrient supply

The correct choice identifies the primary factors contributing to algae blooms in aquatic environments. Algae blooms are typically driven by an increase in nutrients in the water, particularly nitrogen and phosphorus, which often come from agricultural runoff, wastewater discharge, and other human activities. These nutrients foster rapid algal growth. In addition to nutrient loading, the ideal temperature plays a significant role as warm water temperatures create favorable conditions for algae proliferation. Plentiful sunlight further encourages growth, as algae utilize photosynthesis to thrive. Certain types of algae are also more adept at capitalizing on these conditions, which can lead to significant blooms. Thus, the combination of elevated nutrient levels, proper temperature, and sufficient sunlight establishes an environment conducive to excessive algae growth, which can lead to the detrimental impacts of blooms such as oxygen depletion and toxin production.

8. Which of the following is NOT a class of employee designated to work in confined spaces?

- A. Hazard technician**
- B. Maintenance worker
- C. Respiratory technician
- D. Safety supervisor

The correct answer indicates that a "hazard technician" is not a designated class of employee specifically defined for working in confined spaces. In confined space work, employees typically have defined roles that focus on safety and operational procedures, and these roles are recognized as maintenance workers, respiratory technicians, and safety supervisors. Maintenance workers are often tasked with performing necessary repairs and upkeep within these confined environments, while respiratory technicians may be responsible for ensuring that all respiratory protection equipment is functioning properly, which is critical in maintaining safety. Safety supervisors oversee the safety protocols and practices, ensuring compliance with safety regulations and procedures when work is being conducted in confined spaces. In this context, a "hazard technician" does not fit within the established categories typically recognized in confined space training and operations. This title is not commonly associated with specific tasks or responsibilities directly tied to confined space safety standards or practices. Therefore, it is important to focus on the recognized roles that are essential for ensuring the safety of personnel working in these high-risk environments.

9. Which of the following is NOT a term used to rank the distance between bars in a bar screen?

- A. Wide
- B. Narrow
- C. Medium
- D. Close

The term considered as not used to rank the distance between bars in a bar screen is "wide." In the context of bar screens used in water treatment, the terms "narrow," "medium," and "close" are typically employed to describe the spacing between the bars. These terms provide a clear comparison of how tightly or loosely the bars are positioned, which affects the size of solids that can pass through the screen and ensures effective filtration. "Wide," however, is not standard terminology in this context and doesn't contribute to the commonly accepted framework used to categorize bar spacing. This terminology is crucial for engineers and operators to determine the appropriate type of bar screen for their specific application in wastewater treatment processes.

10. Static electricity is often referred to as what?

- A. Electricity at motion
- B. Electricity at rest
- C. Fluid electricity
- D. Potential electricity

Static electricity is referred to as "electricity at rest" because it involves the build-up of electric charge on the surface of objects, which occurs when there is an imbalance between positive and negative charges. This charge remains stationary until it is discharged, either by contact with another object or through a discharge event like a spark. The term captures the essence of static electricity, as it does not flow continuously like current electricity; rather, it remains dormant until the conditions allow for its release. By recognizing static electricity as a state of rest, one can understand its behavior, applications, and potential hazards, such as when it causes shocks or interferes with electronic components. The other options do not accurately describe the nature of static electricity, focusing instead on aspects that pertain to dynamic or flowing forms of energy.

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://wsowatertreatmentgr1.examzify.com>

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

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