

WSO WATER TREATMENT GRADE 2 PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

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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. If a spherical tank is 20 ft in diameter, what is its capacity?
 - A. 3,600 ft³
 - B. 4,187 ft³
 - C. 5,000 ft³
 - D. 6,000 ft³
2. What is a key advantage of a confined aquifer?
 - A. It is easily accessible
 - B. It is protected from contamination and likely under pressure
 - C. It is less prone to depletion
 - D. It requires minimal treatment
3. What does the Partnership for Safe Water suggest be recorded periodically in each sedimentation basin?
 - A. pH levels
 - B. Turbidity performance
 - C. Chlorine levels
 - D. Temperature fluctuations
4. What is the major cause of short-circuiting in a sedimentation basin?
 - A. Poor inlet baffling
 - B. Excessive floc size
 - C. Improper flow rate
 - D. High water temperature
5. What term refers to the level of the water surface in the well when no water is being taken from the aquifer?
 - A. Static water level
 - B. Dynamic water level
 - C. Groundwater table
 - D. Water saturation point

- 6. What process can be used to remove water from sludge?**
- A. Sand bed
 - B. Centrifuge
 - C. Dewatering press
 - D. Mechanical filter
- 7. Which of the following is a mechanical measuring device?**
- A. Loss of head meter
 - B. Digital flow meter
 - C. Pressure gauge
 - D. Ultrasonic flow meter
- 8. Dissolved-air flotation is particularly good for removing:**
- A. Heavy metals
 - B. Suspended solids
 - C. Algae
 - D. Bacteria
- 9. What is the Maximum Contaminant Level Goal (MCLG) for suspected carcinogens?**
- A. 0.020 mg/L
 - B. 0.050 mg/L
 - C. Zero
 - D. 0.010 mg/L
- 10. What is the primary purpose of disinfection in water treatment?**
- A. To improve taste
 - B. To remove sediment
 - C. To eliminate pathogens
 - D. To balance pH

Answers

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

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Explanations

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1. If a spherical tank is 20 ft in diameter, what is its capacity?

- A. 3,600 ft³
- B. 4,187 ft³**
- C. 5,000 ft³
- D. 6,000 ft³

To determine the capacity of a spherical tank, you use the formula for the volume of a sphere, which is given by the equation: $V = \frac{4}{3} \pi r^3$ In this case, the diameter of the tank is 20 feet, which means the radius (r) is half of that, or 10 feet. Substituting the radius into the volume formula: $V = \frac{4}{3} \pi (10)^3$ Calculating (10^3) : $10^3 = 1000$ Now substituting back into the volume formula: $V = \frac{4}{3} \pi (1000)$ $V = \frac{4000}{3} \pi$ Using the approximation for (π) (about 3.14), we can calculate: $V \approx \frac{4000}{3} \times 3.14 \approx \frac{12560}{3} \approx 4186.67$ Rounding this gives approximately 4,187 cubic feet, which aligns closely with the provided

2. What is a key advantage of a confined aquifer?

- A. It is easily accessible
- B. It is protected from contamination and likely under pressure**
- C. It is less prone to depletion
- D. It requires minimal treatment

The key advantage of a confined aquifer is that it is protected from contamination and likely under pressure. Confined aquifers are situated between impermeable layers of rock or clay, which act as natural barriers, helping to shield the water within the aquifer from surface pollutants. This protection is crucial because it means that any potential contaminants are less likely to seep into the aquifer, preserving water quality. Additionally, the presence of these impermeable layers can create pressure within the aquifer. When tapped by a well, this pressure can often allow water to rise to the surface without the need for pumping, which can lead to a more sustainable source of water. The combination of protection from contamination and the potential for natural pressure to assist in water extraction makes confined aquifers highly valuable in water resource management. The other options mention factors such as accessibility, depletion rates, and treatment needs, which can be important considerations but do not specifically relate to the inherent protective qualities or the pressure characteristics that set confined aquifers apart.

3. What does the Partnership for Safe Water suggest be recorded periodically in each sedimentation basin?

- A. pH levels
- B. Turbidity performance**
- C. Chlorine levels
- D. Temperature fluctuations

The Partnership for Safe Water emphasizes the importance of monitoring turbidity performance in sedimentation basins as a critical aspect of ensuring effective water treatment. Turbidity, which refers to the cloudiness or haziness of water caused by suspended particles, is a key indicator of the efficiency of the sedimentation process. Maintaining low turbidity levels is essential as it reflects the basin's ability to remove particulates and other impurities from the water before it proceeds to further treatment stages. Tracking turbidity performance helps operators assess the effectiveness of their sedimentation systems and implement adjustments as necessary to optimize the removal of contaminants. Additionally, monitoring this parameter can facilitate compliance with health regulations regarding water quality, contributing to the overall safety of the drinking water supply. While other parameters such as pH levels, chlorine levels, and temperature fluctuations are important for overall water quality management, the primary focus in the context of sedimentation basins is on turbidity performance, making it the correct choice for periodic recording in this scenario.

4. What is the major cause of short-circuiting in a sedimentation basin?

- A. Poor inlet baffling**
- B. Excessive floc size
- C. Improper flow rate
- D. High water temperature

Short-circuiting in a sedimentation basin primarily occurs due to poor inlet baffling. Baffling is used in sedimentation basins to control water flow and ensure that the influent is evenly distributed throughout the basin, allowing ample time for sedimentation. When inlet baffling is insufficient or poorly designed, water can enter the basin too quickly or in a manner that creates turbulent flows, leading to areas where water bypasses the intended settling zone. This can result in less effective sedimentation and can lead to higher levels of suspended solids being discharged, ultimately affecting the overall efficiency of the water treatment process. In contrast, excessive floc size, improper flow rate, and high water temperature can indeed affect sedimentation but do not directly cause short-circuiting. For example, excessive floc size might cause settling issues but would typically lead to increased sedimentation rather than a failure in the hydraulic design of the basin. Similarly, while improper flow rate can affect treatment efficiency, it would not specifically lead to the bypassing of water through the basin. High water temperature can influence the viscosity and density of the water, potentially affecting settling rates but not the hydraulic flow patterns directly responsible for short-circuiting.

5. What term refers to the level of the water surface in the well when no water is being taken from the aquifer?

- A. Static water level**
- B. Dynamic water level
- C. Groundwater table
- D. Water saturation point

The term that refers to the level of the water surface in the well when no water is being extracted from the aquifer is known as the static water level. This measurement represents the natural position of groundwater in the well, reflecting the balance of water entering and leaving the aquifer system. When there is no withdrawal, this water level remains stable, indicating the depth at which water can be found under natural conditions. Understanding static water level is fundamental in water resource management, as it provides critical data for evaluating aquifer health, determining well capacity, and managing extraction rates sustainably. This level is distinct from the dynamic water level, which fluctuates when water is being pumped from the aquifer, often lowering due to drawdown effects. The groundwater table is a broader term that encompasses the upper surface of saturated soil or rock, while the water saturation point pertains to soil moisture levels during saturation and is not directly related to groundwater measurements in wells.

6. What process can be used to remove water from sludge?

- A. Sand bed**
- B. Centrifuge
- C. Dewatering press
- D. Mechanical filter

The most effective method for removing water from sludge is through processes such as using a centrifuge, dewatering press, or other mechanical dewatering techniques. A centrifuge applies mechanical force to separate the water from the solids in sludge. It accomplishes this by spinning the sludge at high speeds, allowing the denser solids to settle at the bottom while the liquid is expelled. A dewatering press, on the other hand, operates by applying pressure to the sludge, forcing the water out and leaving behind a drier solid material. This method is efficient for achieving a significant reduction in moisture content. While sand beds can be used in some contexts to filter water, they are not primarily designed nor the most effective method for directly removing water from sludge. In comparison, centrifuges and dewatering presses are specifically engineered for this purpose, making them more suitable options for dewatering processes in wastewater treatment.

7. Which of the following is a mechanical measuring device?

- A. Loss of head meter**
- B. Digital flow meter
- C. Pressure gauge
- D. Ultrasonic flow meter

The correct answer is the loss of head meter, as it is a mechanical device used to measure the energy loss due to friction and other factors in a fluid flowing through a pipe. This type of meter operates based on physical principles, typically involving a simple arrangement such as a manometer or a series of orifices or taps that measure pressure differences directly due to the fluid velocity changes. A loss of head meter provides data by measuring the difference in pressure at two points in the system, revealing how much energy the fluid loses as it flows through the piping. The mechanical aspects of this device make it essential for assessing the efficiency of pumping systems, aiding in identifying blockages or issues that could affect system performance. In contrast, the digital flow meter, pressure gauge, and ultrasonic flow meter incorporate electronic components or advanced technologies to provide measurements. While they can be highly accurate and convenient, they do not fall into the category of strictly mechanical devices, as they rely on electronic readings and calculations derived from more complex operating principles than a mechanical loss of head measurement.

8. Dissolved-air flotation is particularly good for removing:

- A. Heavy metals
- B. Suspended solids
- C. Algae**
- D. Bacteria

Dissolved-air flotation (DAF) is specifically designed to remove suspended solids, including algae, from water. The process works by generating microbubbles in water, which attach to particles, including algae. This attachment causes the particles to rise to the surface, forming a scum layer that can be easily removed. Algae can often create significant problems in water treatment processes due to their ability to reproduce quickly and their tendency to obstruct filters. DAF is particularly effective for treating water contaminated with algae because it enhances the buoyancy of these particles, facilitating their removal. While DAF may assist in the removal of some heavy metals, bacteria, and other contaminants, its primary strength lies in its ability to efficiently separate and remove suspended solids, particularly those like algae that can significantly affect water quality.

9. What is the Maximum Contaminant Level Goal (MCLG) for suspected carcinogens?

- A. 0.020 mg/L
- B. 0.050 mg/L
- C. Zero**
- D. 0.010 mg/L

The Maximum Contaminant Level Goal (MCLG) for suspected carcinogens is set at zero because the goal emphasizes the level of contaminants in drinking water that poses no risk to human health. The MCLG represents a health-based standard that reflects the absence of potential health effects, particularly when it comes to substances that are suspected or known to cause cancer. Setting the MCLG for suspected carcinogens at zero illustrates a precautionary approach in water safety regulation. It prioritizes public health by implying that no amount of a suspected carcinogen is deemed safe for consumption. This goal helps to ensure that water treatment facilities work to minimize and eliminate any detectable levels of harmful contaminants, fostering an overall lower risk of cancer associated with drinking water supplies. Other numerical levels mentioned in the options reflect permissible limits often based on risk assessments but do not convey the same level of safety consideration that a zero goal implies specifically for substances with potential carcinogenic properties.

10. What is the primary purpose of disinfection in water treatment?

- A. To improve taste
- B. To remove sediment
- C. To eliminate pathogens**
- D. To balance pH

The primary purpose of disinfection in water treatment is to eliminate pathogens. Disinfection processes are crucial for ensuring that drinking water is free from harmful microorganisms, such as bacteria, viruses, and protozoa, which can cause waterborne diseases. By effectively reducing or eliminating these pathogens, disinfection safeguards public health, preventing outbreaks of illnesses that could arise from contaminated water. Disinfection methods, such as chlorination, ultraviolet (UV) radiation, and ozonation, are specifically designed to target and neutralize these harmful organisms. While improving taste, removing sediment, and balancing pH are important aspects of water quality management, they do not address the immediate health risks posed by pathogens. Thus, the critical focus of disinfection is on protecting human health by ensuring the microbiological safety of water supplies.

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://wsowatertreatmentgr2.examzify.com>

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

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