

Water Treatment Class E 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 action should be taken if a system exceeds action levels for multiple contaminants?**
 - A. Only monitor the main contaminant**
 - B. Implement corrective actions as prescribed**
 - C. Shutdown the facility immediately**
 - D. Report only to the federal government**

- 2. Where should repeat Total Coliform tests be collected?**
 - A. At the same tap, up and down at most 5 service connections from the positive result**
 - B. From any source within the distribution system**
 - C. At the main supply line**
 - D. At the nearest fire hydrant**

- 3. Which statement is true regarding Secondary Maximum Contaminant Levels (SMCL)?**
 - A. They are enforceable regulations.**
 - B. Testing for them is mandatory.**
 - C. They regulate health threats directly.**
 - D. They are non-mandatory water quality standards.**

- 4. What are the symbols for the element Iron?**
 - A. Fe**
 - B. Ir**
 - C. In**
 - D. Im**

- 5. What should be done to ensure that chlorine residual exists throughout the system?**
 - A. Sample at the treatment plant only**
 - B. Sample at the most remote locations**
 - C. Sample only consumer taps**
 - D. Sample at the source reservoir only**

6. What occurs when low oxygen levels are present in water?

- A. Reduced sedimentation rates**
- B. Soluble iron and manganese deposits**
- C. Increased biodiversity in aquatic life**
- D. Enhanced water clarity and quality**

7. What does chlorine dose refer to?

- A. The total volume of water being treated**
- B. The amount of chlorine needed to meet demand**
- C. The amount of chlorine added to a water supply**
- D. The volume of water in a chlorine tank**

8. What does the "radius of influence" refer to?

- A. The vertical distance to the water table**
- B. The effect of well pumping on nearby water levels**
- C. The distance from the well to the water source**
- D. The width of the well casing**

9. What is the procedure for quarterly THM sampling?

- A. Collect samples from all households**
- B. 4 samples on different days**
- C. 4/quarter on the same day for each treatment plant**
- D. Only one sample per month**

10. What is the function of wear rings in pumps?

- A. To increase efficiency**
- B. To regulate fluid temperature**
- C. To protect the impeller**
- D. To reduce noise**

Answers

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

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Explanations

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1. What action should be taken if a system exceeds action levels for multiple contaminants?

- A. Only monitor the main contaminant**
- B. Implement corrective actions as prescribed**
- C. Shutdown the facility immediately**
- D. Report only to the federal government**

When a system exceeds action levels for multiple contaminants, it is essential to implement corrective actions as prescribed. This choice reflects the necessity to address the contamination comprehensively to ensure the safety of the water supply and comply with regulatory standards. Corrective actions may include additional monitoring, treatment adjustments, or operational changes that mitigate the presence of contaminants. Monitoring only the main contaminant would fail to address other potentially hazardous substances that might also exceed safe levels, compromising water quality and public health. Shutting down the facility immediately is often not a practical or necessary response, as it may lead to service interruptions without addressing the underlying issues; typically, systems work to rectify the problem while still operating safely. Reporting only to the federal government is insufficient as well; local authorities and potentially affected communities also need to be informed to take necessary precautions. Therefore, implementing corrective actions is the appropriate response to ensure compliance with health standards and to safeguard water quality.

2. Where should repeat Total Coliform tests be collected?

- A. At the same tap, up and down at most 5 service connections from the positive result**
- B. From any source within the distribution system**
- C. At the main supply line**
- D. At the nearest fire hydrant**

The correct answer emphasizes the importance of pinpointing contamination sources in the distribution system. When total coliform tests yield a positive result, it's crucial to conduct repeat testing at the same tap. This approach enables water treatment professionals to verify if the contamination is localized to that specific tap or if it's present in the surrounding service connections. Testing up to five service connections from the location of the positive result allows for an adequate assessment of potential contamination spread within that area. By focusing on the same tap and nearby service connections, personnel can effectively trace the origin of the contamination, evaluate the quality of the water being delivered, and implement necessary corrective actions. This targeted approach is much more effective than collecting samples from unrelated sources since those results may not accurately reflect the issue at hand. Other options would not provide the same level of clarity or assurance regarding the specific contamination incident, making option A the most suitable choice for ensuring water safety and compliance.

3. Which statement is true regarding Secondary Maximum Contaminant Levels (SMCL)?

- A. They are enforceable regulations.**
- B. Testing for them is mandatory.**
- C. They regulate health threats directly.**
- D. They are non-mandatory water quality standards.**

Secondary Maximum Contaminant Levels (SMCL) are non-mandatory water quality standards established by the U.S. Environmental Protection Agency (EPA) to guide public water systems in managing aesthetic and operational aspects of drinking water, such as taste, odor, and color. While SMCLs aim to promote better water quality, they do not have the force of law like primary maximum contaminant levels (MCLs), which are designed to protect public health by regulating substances that pose health risks. Given that SMCLs serve to address issues that are generally not health-related, but rather focus on improving the aesthetic qualities of drinking water, they do not require mandatory testing or enforcement. This characteristic differentiates them from enforceable regulations and makes them advisory in nature, providing recommendations rather than mandates. Hence, the statement about SMCLs being non-mandatory water quality standards accurately reflects their role in water treatment and public health policy.

4. What are the symbols for the element Iron?

- A. Fe**
- B. Ir**
- C. In**
- D. Im**

The symbols for elements on the periodic table are derived from their Latin names. Iron is represented by the symbol "Fe," which comes from the Latin word "ferrum." This designation is universally accepted in chemistry and is crucial for identifying the element in various contexts, such as in chemical equations, materials science, and nutrition. The other choices do not correspond to Iron; "Ir" is the symbol for Iridium, "In" represents Indium, and "Im" is not a recognized symbol for any element on the periodic table. Understanding the correct symbol for elements, like Iron, is important for anyone studying chemistry or involved in fields that utilize the periodic table.

5. What should be done to ensure that chlorine residual exists throughout the system?

- A. Sample at the treatment plant only**
- B. Sample at the most remote locations**
- C. Sample only consumer taps**
- D. Sample at the source reservoir only**

To ensure that chlorine residual exists throughout the water distribution system, sampling at the most remote locations is crucial. Chlorine is added to disinfect water, but its effectiveness and presence can diminish as water travels through the distribution network. By sampling at the most remote locations, operators can determine if chlorine levels are adequate at the furthest points from the treatment plant, where the potential for reduced residual is highest. Sampling only at the treatment plant may indicate that chlorine was added, but it does not provide information on the distribution system's effectiveness in retaining that chlorine as the water travels. Similarly, if sampling were restricted to consumer taps or the source reservoir, it would not give a comprehensive view of the entire system's chlorine residuals. The objective is to ensure that disinfection remains effective throughout the entire network of pipes and water storage facilities. Thus, focusing on remote sampling locations provides a more accurate assessment of chlorine presence and ensures that public health safety is maintained throughout the distribution system.

6. What occurs when low oxygen levels are present in water?

- A. Reduced sedimentation rates**
- B. Soluble iron and manganese deposits**
- C. Increased biodiversity in aquatic life**
- D. Enhanced water clarity and quality**

When low oxygen levels are present in water, soluble iron and manganese deposits tend to occur because these metals can exist in a dissolved form when oxygen is scarce. In oxygen-rich environments, iron and manganese typically oxidize and precipitate out of the water, leading to their removal from the dissolved phase. However, under hypoxic conditions—where oxygen levels are low—these metals remain soluble. This is significant in water treatment processes because the presence of dissolved metals can lead to issues such as water discoloration, taste, and potential toxicity to aquatic organisms. The other options do not accurately reflect the potential outcomes of low oxygen conditions. For instance, reduced sedimentation rates may occur in specific contexts but are not a direct consequence of low oxygen levels. Similarly, low oxygen levels generally lead to decreased biodiversity in aquatic life, rather than increased biodiversity, as many organisms require adequate oxygen for survival. Lastly, water clarity and quality typically decline due to low oxygen conditions, not improve, since the dissolution of metals can contribute to turbidity.

7. What does chlorine dose refer to?

- A. The total volume of water being treated
- B. The amount of chlorine needed to meet demand
- C. The amount of chlorine added to a water supply**
- D. The volume of water in a chlorine tank

Chlorine dose refers to the amount of chlorine added to a water supply to achieve effective disinfection or to maintain water quality. This measurement is crucial in water treatment processes, as it ensures that sufficient chlorine is present to eliminate harmful pathogens and control tastes and odors. The chlorine dose is typically expressed in terms of concentration, such as milligrams of chlorine per liter of water. While the total volume of water being treated, the amount of chlorine needed to meet demand, and the volume of water in a chlorine tank are all important aspects of a water treatment system, they do not define the specific concept of a chlorine dose. The primary focus of the chlorine dose is the actual addition of chlorine itself to the water supply, making it essential for achieving desired water quality and safety standards.

8. What does the "radius of influence" refer to?

- A. The vertical distance to the water table
- B. The effect of well pumping on nearby water levels**
- C. The distance from the well to the water source
- D. The width of the well casing

The radius of influence refers to the spatial extent around a pumping well within which the water levels are affected due to the extraction of groundwater. When a well is pumped, it creates a cone of depression in the water table or potentiometric surface, and the radius of influence encompasses the area where this depression is significant enough to impact the water levels in surrounding wells or groundwater monitoring points. This concept is crucial in water management and hydrology, as it helps determine how far the effects of a well's pumping can extend. Understanding the radius of influence is essential for protecting water resources, particularly in areas where multiple wells are operated in proximity, as it aids in managing and predicting water availability based on the cumulative effects of individual pumps on the aquifer system.

9. What is the procedure for quarterly THM sampling?

- A. Collect samples from all households
- B. 4 samples on different days
- C. 4/quarter on the same day for each treatment plant**
- D. Only one sample per month

Collecting four samples on the same day for each treatment plant is the appropriate procedure for quarterly Total Trihalomethanes (THM) sampling. This method is designed to provide a consistent snapshot of the THM levels in the water supply, allowing for accurate evaluation and comparison across different treatment plants within a single quarter. By sampling all at once, the variability introduced by different days and conditions is minimized, making it easier to understand the overall water quality. The process captures the highest potential THM concentration that might occur throughout the system at the same time, which is crucial for compliance with regulatory requirements and maintaining water safety standards. Conducting the sampling in this manner ensures that the results can be effectively monitored and any necessary adjustments can be made to the treatment processes if elevated THM levels are detected. Other methods mentioned, such as sampling from all households or only one sample per month, would not effectively gauge the THM levels across the system in a standardized way, potentially leading to misleading results regarding overall water quality. Similarly, taking four samples on different days could introduce variability that complicates the assessment of the treatment plant's performance over the quarter.

10. What is the function of wear rings in pumps?

- A. To increase efficiency
- B. To regulate fluid temperature
- C. To protect the impeller**
- D. To reduce noise

Wear rings are critical components in pumps that serve to protect the impeller and the casing from wear and damage due to the continuous movement of fluid. They are positioned in a manner that allows for a controlled gap between the impeller and the pump casing. This design helps in minimizing the recirculation of fluid that can occur within the pump, which can lead to performance degradation over time. By acting as a sacrificial component, wear rings absorb the impact of the fluid dynamics, ultimately extending the lifespan of the more expensive and critical parts, such as the impeller. They help maintain the performance of the pump by ensuring that there is minimal wear on the impeller, thereby preserving its efficiency in moving fluids. Other options, such as increasing efficiency, regulating fluid temperature, and reducing noise, while potentially influenced by the condition of the pump and its components, do not encapsulate the primary function of wear rings as effectively as protecting the impeller does. The primary purpose is to guard against wear and tear, which serves to maintain operational efficiency in the long run.

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://watertreatmentclasse.examzify.com>

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

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