

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) CLASS D WATER OPERATOR LICENSE PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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. Which scenario would require immediate action in water sampling?**
 - A. All routine samples are negative.
 - B. A routine sample is total coliform-positive.
 - C. Samples are taken outside the recommended time frame.
 - D. Samples show high turbidity levels.
- 2. True or False: A full-face self-contained breathing apparatus must be accessible outside the fire station when chlorine gas is used.**
 - A. True
 - B. False
 - C. Only if there's an active leak
 - D. Only during training
- 3. Who is the federal regulator responsible for overseeing drinking water quality?**
 - A. The Environmental Protection Agency (EPA)
 - B. The U.S. Geological Survey (USGS)
 - C. The Center for Disease Control (CDC)
 - D. The Department of Water Resources
- 4. T/F: Powdered activated carbon (PAC) is commonly used to treat iron and manganese.**
 - A. True
 - B. False
 - C. Only in large quantities
 - D. True for organic chemicals
- 5. Which soil type is considered the least stable?**
 - A. Type A
 - B. Type B
 - C. Type C
 - D. Type D

- 6. Why must turbidity be limited in water treatment?**
- A. It causes aesthetic issues
 - B. It shelters and nourishes bacteria
 - C. It is an indicator of chemical contaminants
 - D. It affects pH levels
- 7. Which of the following is true about non-transient non-community Public Water Systems (PWS)?**
- A. They are typically found in urban areas.
 - B. They are always associated with a single household.
 - C. They can include facilities like rural schools.
 - D. They only serve transient populations.
- 8. Are the terms mg/L and ppm interchangeable in water quality measurements?**
- A. Yes
 - B. No
 - C. Only in certain circumstances
 - D. Only for dissolved solids
- 9. For groundwater supply systems with more than 50 connections, what is the minimum required total storage capacity per connection?**
- A. 150 gallons
 - B. 200 gallons
 - C. 250 gallons
 - D. 100 gallons
- 10. A competent person should inspect cave-in protection at a minimum of how often?**
- A. Weekly
 - B. Daily
 - C. Monthly
 - D. Bi-weekly

Answers

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

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Explanations

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1. Which scenario would require immediate action in water sampling?

- A. All routine samples are negative.
- B. A routine sample is total coliform-positive.**
- C. Samples are taken outside the recommended time frame.
- D. Samples show high turbidity levels.

A scenario where a routine sample is total coliform-positive necessitates immediate action because the presence of total coliform bacteria indicates potential contamination of the water supply. Total coliforms are used as indicators of water quality and the effectiveness of treatment processes. They can signify that harmful pathogens may also be present, which poses a significant risk to public health. Immediate action following a positive total coliform test usually involves conducting further testing to identify the source of contamination, ensuring that corrective measures are implemented, and possibly notifying the public, especially in cases where the water is not treated or regularly monitored. Addressing this issue promptly helps mitigate the risk of waterborne diseases and ensures that drinking water remains safe for consumption. In contrast, while high turbidity levels and samples taken outside of the recommended time frame are also concerning, they may not require the same level of urgency as a total coliform-positive result. High turbidity could indicate problems with water treatment but does not directly imply the presence of pathogens, and timing discrepancies can affect the reliability of data but do not indicate immediate health risks. Similarly, routine samples being negative is a good sign but does not trigger urgent action.

2. True or False: A full-face self-contained breathing apparatus must be accessible outside the fire station when chlorine gas is used.

- A. True
- B. False**
- C. Only if there's an active leak
- D. Only during training

Access to personal protective equipment, such as a full-face self-contained breathing apparatus (SCBA), is crucial when dealing with hazardous materials like chlorine gas. However, having the SCBA accessible outside the fire station is typically not a requirement in usual operational protocols unless specifically dictated by an emergency situation or regulatory guidelines. In this scenario, the statement that a full-face SCBA must be accessible outside the fire station when chlorine gas is used is not true in general practice. SCBAs are required to be readily available for emergency responses, but their placement is often determined based on risk assessment and operational procedures, rather than a blanket requirement for them to be outside at all times. Moreover, personnel usually don the SCBA as needed, particularly during emergencies or known exposure situations, rather than having them always set up outside the station. This context underlines why the assertion in the question is false, while recognizing that there are specific protocols and conditions under which SCBAs must be utilized effectively and efficiently in response to hazards like chlorine gas.

3. Who is the federal regulator responsible for overseeing drinking water quality?

- A. The Environmental Protection Agency (EPA)**
- B. The U.S. Geological Survey (USGS)
- C. The Center for Disease Control (CDC)
- D. The Department of Water Resources

The Environmental Protection Agency (EPA) is the federal regulator responsible for overseeing drinking water quality in the United States. This agency was established to enforce federal laws that ensure clean air and water, focusing on protecting human health and the environment. The EPA sets the standards for drinking water quality under the Safe Drinking Water Act (SDWA), which authorizes the agency to regulate contaminants in public drinking water systems. By enforcing these standards, the EPA helps ensure that public water supplies are safe and that the treatment processes meet health and safety guidelines. The agency also provides technical assistance and guidance to states and water utilities to help them comply with federal regulations, thereby contributing to the protection of public health concerning drinking water. The other options do not have the primary role in regulating drinking water quality. The U.S. Geological Survey (USGS) primarily conducts research related to natural resources, the environment, and water resources rather than directly regulating drinking water. The Centers for Disease Control and Prevention (CDC) focus on public health but do not regulate drinking water quality directly; instead, they provide research and guidance related to waterborne diseases. The Department of Water Resources is a state-level entity that may manage water resources but is not a federal regulator of drinking water quality.

4. T/F: Powdered activated carbon (PAC) is commonly used to treat iron and manganese.

- A. True
- B. False**
- C. Only in large quantities
- D. True for organic chemicals

The statement is false because powdered activated carbon (PAC) is primarily used for adsorbing organic compounds and some types of pollutants, rather than for treating iron and manganese specifically. When it comes to the removal of iron and manganese from water, other treatment processes are generally more effective and commonly used. These may include oxidation followed by filtration or using ion exchange methods, which are specifically designed to address the challenges posed by these metals in water. PAC does not provide the effectiveness needed to target these specific contaminants, which is why the correct answer indicates that it is not commonly used for this purpose.

5. Which soil type is considered the least stable?

- A. Type A
- B. Type B
- C. Type C**
- D. Type D

Type C soil is classified as the least stable type of soil according to the Unified Soil Classification System. This classification indicates that Type C soils typically have low shear strength and higher susceptibility to failure under load. They often consist of loose, granular materials or silts that are more prone to erosion and instability, particularly when saturated with water. In practical scenarios, this means that construction and excavation activities in Type C soils require additional precautions, such as shoring and bracing, to ensure safety and structural integrity. The characteristics of Type C soil make it essential for water operators and related professionals to recognize its limitations in stability to mitigate risks effectively. Understanding the stability of different soil types helps operators assess potential hazards and implement appropriate engineering controls, which is crucial when working in the field. This knowledge ultimately contributes to safe and effective management of water operations and maintenance of infrastructure.

6. Why must turbidity be limited in water treatment?

- A. It causes aesthetic issues
- B. It shelters and nourishes bacteria**
- C. It is an indicator of chemical contaminants
- D. It affects pH levels

Turbidity must be limited in water treatment primarily because it shelters and nourishes bacteria. When water contains suspended particles, these particles can provide a habitat and source of nutrients for microbial growth, including harmful bacteria. This can lead to potential health risks and make the treatment processes less effective, as the presence of bacteria can lead to the formation of biofilms, which may resist disinfection efforts. Although turbidity can cause aesthetic issues, serve as an indicator of possible chemical contaminants, or have an indirect connection to pH levels, the most critical concern from a health and treatment perspective is its role in fostering an environment suitable for bacterial proliferation. Reducing turbidity is essential to ensure the safety and quality of drinking water, as well as to improve the overall efficacy of water treatment processes.

7. Which of the following is true about non-transient non-community Public Water Systems (PWS)?

- A. They are typically found in urban areas.
- B. They are always associated with a single household.
- C. They can include facilities like rural schools.**
- D. They only serve transient populations.

Non-transient non-community Public Water Systems (PWS) are defined as systems that provide water to the same people for more than six months per year, but not primarily to people living in the same household. These systems are often found in locations such as schools, daycare centers, factories, and other facilities where the same group of people regularly gather, which aligns with the idea of rural schools being an example. The relevance of this definition contributes to understanding the function of non-transient non-community systems. They serve a stable population, such as students or employees, rather than a transient population, which is why this classification is important. The settings in which they are found can also reflect rural or suburban areas and are not limited strictly to urban environments, leading to a broader range of possible facilities. This classification highlights why the answer regarding facilities like rural schools is accurate, as they serve non-transient groups of people in environments where community-based water service is essential for routine use rather than just for passing or temporary needs.

8. Are the terms mg/L and ppm interchangeable in water quality measurements?

- A. Yes**
- B. No
- C. Only in certain circumstances
- D. Only for dissolved solids

The terms mg/L (milligrams per liter) and ppm (parts per million) are often considered interchangeable in the context of water quality measurements because they typically represent the same concentration in dilute aqueous solutions. Both units essentially describe the same concept of concentration, where mg/L indicates the mass of a substance in milligrams per one liter of water, while ppm indicates the mass of a substance relative to one million parts of solution. In the case of water, where the density is close to 1 g/mL (or 1000 g/L), 1 mg/L is equivalent to 1 ppm. This equivalence holds true for a range of concentrations that are sufficiently low, allowing for the comparison between the two units without significant error. While there are conditions under which mg/L and ppm may diverge (for instance, in more concentrated solutions or if the density of the solvent deviates significantly from that of water), in most routine water quality measurements, especially at the levels typically encountered in environmental assessments, they can be used interchangeably. Understanding this equivalency is crucial for water operators who analyze water quality data to communicate effectively about pollutant concentrations and ensure compliance with environmental regulations.

9. For groundwater supply systems with more than 50 connections, what is the minimum required total storage capacity per connection?

- A. 150 gallons
- B. 200 gallons**
- C. 250 gallons
- D. 100 gallons

The minimum required total storage capacity per connection for groundwater supply systems with more than 50 connections is set at 200 gallons. This requirement ensures that there is a sufficient water supply for both daily usage and peak demand situations. Adequate storage capacity is crucial for maintaining water pressure, providing a buffer during periods of high consumption, and ensuring that there is enough water stored to handle emergencies such as main breaks or power outages. In practice, 200 gallons per connection is designed to facilitate the reliable distribution of water, promoting the health and safety of the community served by the groundwater system. This regulation reflects industry standards aimed at ensuring that systems are adequately prepared to meet their operational demands and protect public health.

10. A competent person should inspect cave-in protection at a minimum of how often?

- A. Weekly
- B. Daily**
- C. Monthly
- D. Bi-weekly

Inspections of cave-in protection systems are crucial for ensuring the safety of workers in excavation sites. According to safety regulations and best practices, a competent person must conduct these inspections daily. This is important because the conditions surrounding excavations can change rapidly due to various factors such as weather conditions, soil composition changes, and the presence of nearby construction activities. Daily inspections ensure that any potential hazards are identified and addressed promptly, minimizing the risk of accidents and ensuring compliance with safety standards. Regular inspections contribute to maintaining a safe working environment and protecting the health and safety of personnel on site.

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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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