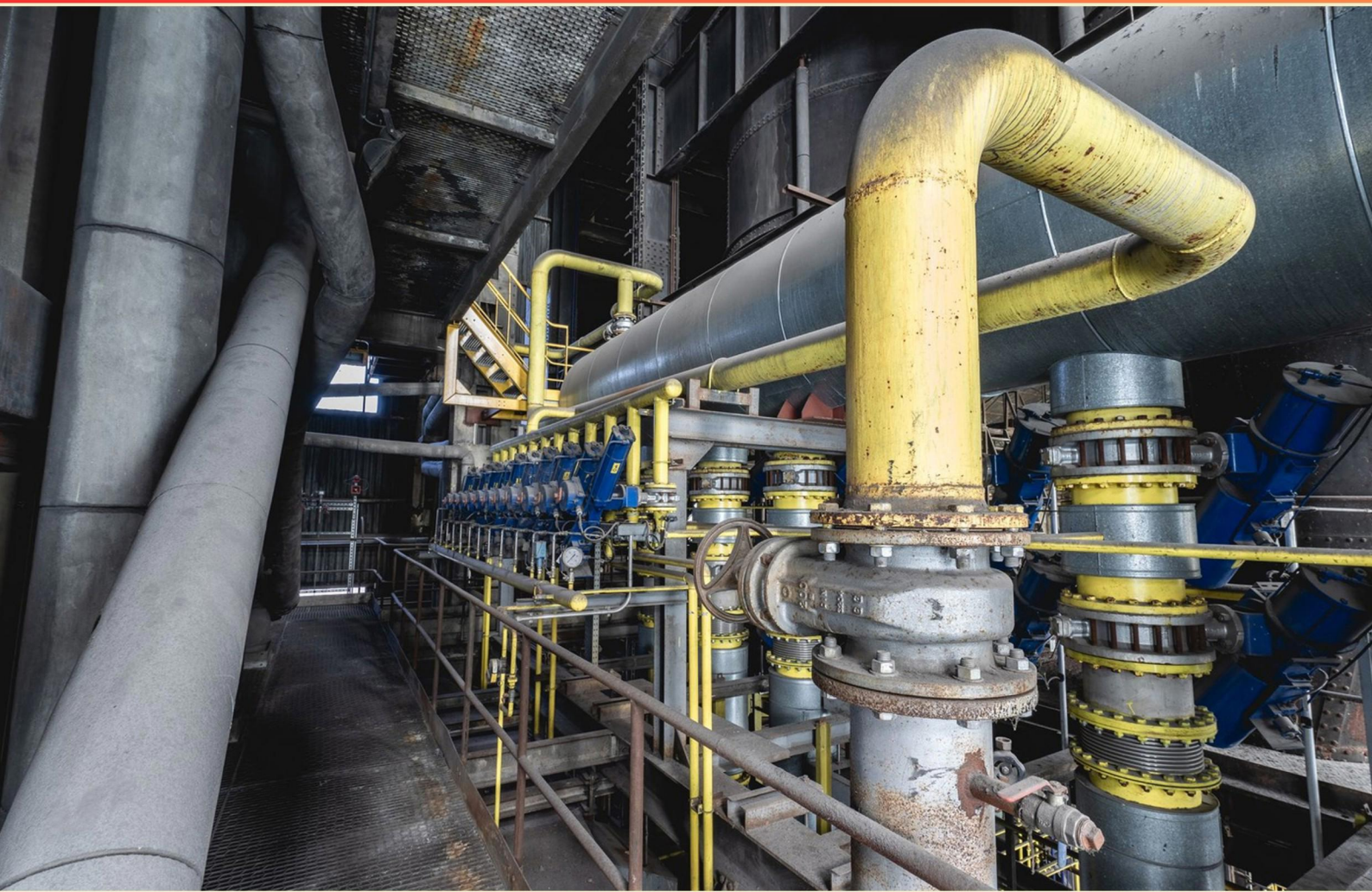


ASSE BACKFLOW RECERTIFICATION PRACTICE EXAM (SAMPLE)

STUDY GUIDE



Prepare with structure. Pass with confidence



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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. The portable water supply to a urinal equipped with a flushometer valve is protected by which type of backflow device?**
 - A. Reduced pressure zone (RPZ)
 - B. Atmospheric type pressure vacuum breaker
 - C. Double check valve
 - D. Simple check valve

- 2. The following statement is true regarding atmospheric type vacuum breakers:**
 - A. Must be used for low pressure systems
 - B. Must be used for backsiphonage protection only
 - C. Can be used for high pressure applications
 - D. Designed for continuous pressure applications

- 3. How is an air gap separation measured?**
 - A. From the floor to the outlet
 - B. From the outlet to the flood level rim of the receptacle
 - C. From the inlet to the outlet
 - D. From the faucet to the sink

- 4. Which test cock number should be opened to establish flow through a backflow preventer?**
 - A. Two
 - B. Three
 - C. Four
 - D. Five

- 5. Before installing a reduced pressure zone (RPZ) device, what special consideration should be noted?**
 - A. Water flow direction
 - B. Drainage of the relief valve
 - C. Height of installation
 - D. Type of pipes used

- 6. What is an acceptable means of backflow prevention?**
- A. Reduced pressure principle assembly
 - B. Check valve
 - C. Barometric loop
 - D. Atmospheric vacuum breaker
- 7. If the relief valve of a Reduced Pressure Zone (RPZ) assembly fails to open during a field test, what is the probable cause?**
- A. Malfunction of the relief valve mechanism
 - B. Insufficient water pressure
 - C. Improper installation
 - D. Excessive sediment buildup
- 8. What should be done if the differential pressure relief valve does not open as required?**
- A. Replace the entire assembly
 - B. Check for blockages
 - C. Adjust the pressure setting
 - D. Inspect the valve for defects
- 9. What is the primary purpose of pressure relief valves in backflow prevention assemblies?**
- A. To secure the assembly during installation
 - B. To allow controlled discharge of water
 - C. To completely shut off water flow
 - D. To monitor water quality
- 10. Which of the following systems typically requires a backflow prevention device?**
- A. Heating and air conditioning systems
 - B. Wastewater treatment plants
 - C. Domestic hot water systems
 - D. All of the above

Answers

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

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Explanations

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1. The portable water supply to a urinal equipped with a flushometer valve is protected by which type of backflow device?

- A. Reduced pressure zone (RPZ)
- B. Atmospheric type pressure vacuum breaker**
- C. Double check valve
- D. Simple check valve

The correct choice is the atmospheric type pressure vacuum breaker. This type of device is specifically designed to prevent backflow in applications where a potential for back siphonage exists, such as urinals connected to flushometer valves. In a typical scenario, when water is drawn from the supply for flushing, its rapid flow can create a negative pressure condition, which may lead to back siphonage. The atmospheric vacuum breaker functions by allowing air into the system if a negative pressure occurs, effectively preventing any contaminants from being drawn back into the potable water supply. This ensures that the urine or any other waste does not mix with the drinking water, maintaining the safety and quality of the water supply. On the other hand, while reduced pressure zone devices and double check valves also serve to protect against backflow, they are suited for different applications. A reduced pressure zone device is generally used in higher hazard situations where the risk of contamination is more significant. Double check valves are also utilized in certain applications but are not as effective in handling back siphonage as the atmospheric vacuum breaker. A simple check valve, while it can prevent backflow, does not address the specific siphonage risks present in this scenario. Therefore, the atmospheric type pressure vacuum breaker is the

2. The following statement is true regarding atmospheric type vacuum breakers:

- A. Must be used for low pressure systems
- B. Must be used for backsiphonage protection only**
- C. Can be used for high pressure applications
- D. Designed for continuous pressure applications

Atmospheric type vacuum breakers are specifically designed to protect against backsiphonage, which occurs when the pressure in a distribution system drops and causes a reverse flow of potentially contaminated water back into the safe drinking water supply. Their primary function is to prevent this type of backflow by allowing air to enter the system when a vacuum condition occurs, thus breaking the siphon effect. While they provide effective protection against backsiphonage, they are not suited for situations involving continuous pressure; that is, they should not be used in constant pressure applications. Furthermore, their use is limited in capacity and not intended for high-pressure systems. Therefore, option B correctly identifies their purpose and scope of application in preventing backsiphonage.

3. How is an air gap separation measured?

- A. From the floor to the outlet
- B. From the outlet to the flood level rim of the receptacle**
- C. From the inlet to the outlet
- D. From the faucet to the sink

An air gap separation is a critical component of backflow prevention, and it is defined as the vertical distance between the outlet of a water supply system and the flood level rim of the receptacle receiving the water, such as a sink or bathtub. This measurement ensures that there is sufficient space to prevent backflow contamination by allowing air to enter the water system, thus preventing the siphoning of contaminated water back into the clean supply. The measurement is specifically taken from the outlet (where water is discharged) to the flood level rim, which is the level at which the receptacle would overflow. If the outlet were to become submerged or if a siphon were to occur, water would not be able to flow back into the system due to the air gap. This principle protects drinking water supplies from contaminants, making it a vital aspect of plumbing safety and compliance. Proper measurement and maintenance of air gaps are essential for ensuring they are effective in preventing backflow incidents, which can have serious health implications.

4. Which test cock number should be opened to establish flow through a backflow preventer?

- A. Two
- B. Three
- C. Four**
- D. Five

To establish flow through a backflow preventer, the specific test cock that should be opened is usually designated as the one that allows water to flow through the device so pressure readings can be taken accurately. In a standard configuration for backflow prevention devices, test cock number four is typically the designated test cock for measuring the differential pressure across the assembly, which is critical for determining if the backflow preventer is functioning properly. Opening this test cock facilitates a controlled flow of water that can provide essential information regarding the performance of the backflow preventer. Utilizing the designated test cock for flow measurements ensures standardization in testing practices, which is necessary for consistent and reliable results in assessing the device's effectiveness in preventing backflow. Therefore, confirming the correct test cock—in this case, number four—enables technicians to properly evaluate the hydraulic integrity of the backflow prevention assembly under real flow conditions.

5. Before installing a reduced pressure zone (RPZ) device, what special consideration should be noted?

- A. Water flow direction
- B. Drainage of the relief valve**
- C. Height of installation
- D. Type of pipes used

Before installing a reduced pressure zone (RPZ) device, it is crucial to consider the drainage of the relief valve. The RPZ device is designed to prevent backflow by maintaining a reduced pressure on the supply side of the device. If there is a backflow condition, pressure could drop in the system, causing contaminants to potentially enter potable water supplies. The relief valve on the RPZ allows water to be expelled to drain in the event of a malfunction, making proper drainage essential to ensure that any expelled water does not cause flooding or contamination. If the relief valve does not have an adequate drainage outlet, it could lead to significant issues, such as water damage or spills in the installation area. Proper drainage ensures that expelled water is safely directed away from the installation site, maintaining compliance with health and safety standards while effectively protecting the water supply from contamination. This focus on drainage is a critical aspect of RPZ installation and a key consideration for maintaining system integrity and safety.

6. What is an acceptable means of backflow prevention?

- A. Reduced pressure principle assembly
- B. Check valve
- C. Barometric loop**
- D. Atmospheric vacuum breaker

A barometric loop is an effective method to prevent backflow, particularly in situations where high levels of backpressure could occur. This system utilizes a vertical rise in the piping, allowing fluid to flow freely under normal conditions but preventing reverse flow due to changes in pressure or vacuum conditions. The elevation creates a physical barrier that helps protect the drinking water supply from contamination, making it a reliable option for preventing backflow, especially in specific installation scenarios. While the other choices also represent various backflow prevention methods, they serve different functions, and their effectiveness can depend on specific applications and circumstances. Each has its own limitations and may not be suited for all situations, hence the barometric loop stands out in contexts requiring resistance to backpressure in elevated systems.

7. If the relief valve of a Reduced Pressure Zone (RPZ) assembly fails to open during a field test, what is the probable cause?

A. Malfunction of the relief valve mechanism

B. Insufficient water pressure

C. Improper installation

D. Excessive sediment buildup

The probable cause for the relief valve of a Reduced Pressure Zone (RPZ) assembly failing to open during a field test is likely a malfunction of the relief valve mechanism. The relief valve is designed to open and release water when the system pressure drops below a certain threshold, which helps to prevent backflow conditions. If the mechanism is not operating properly—perhaps due to wear, damage, or a blockage—this critical function will be compromised, resulting in the valve remaining closed despite the conditions that would typically trigger its opening. Evaluating the other options helps to clarify why they might not directly relate to the immediate malfunction of the relief valve. Insufficient water pressure could impact overall system performance but would not necessarily prevent the relief valve from performing its intended function if it were working correctly. Improper installation could affect the overall efficiency of the RPZ but does not inherently cause the relief valve itself to fail. Excessive sediment buildup might impede water flow or cause other issues but typically, a properly functioning valve should still open unless there is a direct malfunction in the valve mechanism.

8. What should be done if the differential pressure relief valve does not open as required?

A. Replace the entire assembly

B. Check for blockages

C. Adjust the pressure setting

D. Inspect the valve for defects

When the differential pressure relief valve does not open as required, inspecting the valve for defects is crucial. A malfunctioning valve may have internal issues such as debris causing it to stick, wear from prolonged use, or seal problems that prevent proper operation. Thoroughly examining the valve allows for identifying any physical faults that may need repair or replacement, ensuring the valve can function correctly. Checking for blockages is important but more of a secondary action; if the valve itself is defective, addressing blockages alone will not resolve the primary issue. Adjusting the pressure setting might be necessary under different circumstances, but if there is a defect in the valve, adjusting it won't rectify the root problem. Replacing the entire assembly is a more drastic step that may not be necessary if the valve can be repaired after inspection, which helps in maintaining system efficiency and controlling costs. Hence, focusing on the inspection first allows for targeted troubleshooting.

9. What is the primary purpose of pressure relief valves in backflow prevention assemblies?

- A. To secure the assembly during installation
- B. To allow controlled discharge of water**
- C. To completely shut off water flow
- D. To monitor water quality

The primary purpose of pressure relief valves in backflow prevention assemblies is to allow controlled discharge of water. These valves play a crucial role in maintaining system pressure and ensuring safe operation. When excess pressure builds up within the assembly—due to factors such as thermal expansion or blockage—these valves open to release the excess pressure in a controlled manner. This not only protects the integrity of the backflow prevention assembly but also helps to prevent potential damage to pipes and connected systems. By allowing for this controlled discharge, the pressure relief valves ensure that the system operates efficiently while also mitigating the risks associated with overpressure situations, such as leaks or ruptures, thereby protecting both the plumbing infrastructure and the surrounding environment.

10. Which of the following systems typically requires a backflow prevention device?

- A. Heating and air conditioning systems
- B. Wastewater treatment plants
- C. Domestic hot water systems
- D. All of the above**

The requirement for backflow prevention devices is crucial in systems that have the potential for cross-connections between potable water and non-potable sources, which could lead to contamination. Heating and air conditioning systems, for example, often have water circulating in closed loops, but they can also connect to domestic water supplies for various reasons, such as filling and maintenance. If a failure occurs, backflow could introduce contaminants into the drinking water supply. Wastewater treatment plants are designed to handle sewage and wastewater; however, backflow prevention is essential to ensure that treated or untreated wastewater does not flow back into the public water supply, keeping the drinking water safe. Domestic hot water systems also require backflow prevention. These systems can create conditions that allow backflow if there's a change in pressure, such as when a water heater is drained or during maintenance. A backflow incident could allow stagnant water to mix with the potable water supply, posing a health risk. Considering all these factors, it becomes clear that each of these systems can be vulnerable to backflow issues and, therefore, requires proper backflow prevention devices to safeguard against potential contamination of drinking water. Thus, it's understandable why the correct response encompasses all the options provided.

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://assebackflowrecert.examzify.com>

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

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