

ASSE BACKFLOW RECERTIFICATION PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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

<https://assebackflowrecert.examzify.com>



Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

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	15

SAMPLE

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

SAMPLE

- 1. What type of hazard does RPZ protect against?**
 - A. Non-health hazards
 - B. High health hazards
 - C. Physical hazards
 - D. Environmental hazards
- 2. When is it necessary to utilize a reduced pressure zone (RPZ) assembly?**
 - A. In low hazard situations
 - B. In high hazard situations
 - C. In only residential settings
 - D. Whenever a check valve is used
- 3. One atmosphere of pressure is equivalent to how high of a column of water at sea level?**
 - A. 33.8 feet
 - B. 15.5 feet
 - C. 20.5 feet
 - D. 40.5 feet
- 4. What is the primary role of a check valve in backflow prevention?**
 - A. To allow forward flow only
 - B. To store water
 - C. To measure pressure
 - D. To filter contaminants
- 5. How much pressure is exerted at the base of a column of water that is two feet tall?**
 - A. 0.5 psi
 - B. 1.0 psi
 - C. 0.86 psi
 - D. 1.5 psi

- 6. What is the maximum allowable pressure loss during rated flow across a double check?**
- A. 5 psi
 - B. 10 psi
 - C. 15 psi
 - D. 20 psi
- 7. Why is an air gap important in backflow prevention?**
- A. It increases water flow
 - B. It prevents cross-connections
 - C. It reduces water pressure
 - D. It filters contaminants
- 8. What is the role of a test cock in a backflow prevention assembly?**
- A. To regulate water flow
 - B. To prevent leaks
 - C. To establish flow for testing
 - D. To monitor water temperature
- 9. Which component is present in a hose connection to provide high hazard protection?**
- A. Check valve
 - B. Pressure regulator
 - C. Two check valves
 - D. Atmospheric vent
- 10. Which of the following will not create a closed loop piping system?**
- A. Pressure relief valve
 - B. Closed gate valve
 - C. Dual check
 - D. Double check

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What type of hazard does RPZ protect against?

- A. Non-health hazards
- B. High health hazards**
- C. Physical hazards
- D. Environmental hazards

The correct choice is centered around the primary function and design of a Reduced Pressure Zone (RPZ) backflow preventer, which is specifically engineered to protect against high health hazards. In the context of cross-connection control, high health hazards refer to situations where contaminated water could enter a potable water supply, posing serious health risks to individuals consuming that water. RPZs use a dual check valve system with a pressure differential, which maintains a lower pressure in the zone between the check valves. This design is crucial because it ensures that even if there is a drop in water pressure in the system, contaminated water cannot flow back into the clean water supply. This mechanism is essential for environments where the consequences of contamination could lead to severe health implications, such as in hospitals, chemical facilities, or agricultural settings. Understanding the specific context of hazards is important. Non-health hazards involve situations that may cause discomfort or nuisance but do not pose a direct health threat, while physical hazards and environmental hazards have different implications that do not directly involve the health safety of drinking water. Therefore, recognizing that RPZs are specifically designed to safeguard against high health hazards clarifies why this answer is the most appropriate in the context of backflow prevention.

2. When is it necessary to utilize a reduced pressure zone (RPZ) assembly?

- A. In low hazard situations
- B. In high hazard situations**
- C. In only residential settings
- D. Whenever a check valve is used

Utilizing a reduced pressure zone (RPZ) assembly is necessary in high hazard situations because these assemblies are designed to provide a high level of protection against backflow contamination. High hazard situations typically involve environments where a potable water supply could be contaminated with pollutants or pathogens, such as in industrial facilities, chemical plants, or laboratories. An RPZ assembly has two independently acting check valves and a pressure differential relief valve that ensures the water pressure in the system is maintained at a safe level, preventing any potentially contaminated water from flowing back into the public drinking water supply. In contrast, other options refer to situations that do not warrant the use of an RPZ. For instance, low hazard situations may only require a less stringent backflow prevention method. Residential settings may also be classified as low to medium hazard, where simpler devices may suffice. Lastly, the use of a check valve alone does not establish the need for an RPZ assembly; they serve a different function and do not provide the same level of protection as an RPZ. Therefore, the correct identification of high hazard situations as requiring an RPZ assembly underscores its critical role in safeguarding public health.

3. One atmosphere of pressure is equivalent to how high of a column of water at sea level?

- A. 33.8 feet**
- B. 15.5 feet
- C. 20.5 feet
- D. 40.5 feet

One atmosphere of pressure, which is equivalent to 101.3 kPa or 14.7 psi, can support a column of water due to the weight of the water above it. At sea level, this pressure can support a column of water approximately 33.8 feet tall. This measurement is derived from understanding the density of water and the gravitational force acting on it. Water has a density of about 62.4 pounds per cubic foot, and when you calculate the height of the water column that corresponds to one atmosphere of pressure, it is found to be approximately 33.8 feet. This relationship between atmospheric pressure and the height of a water column is fundamental in fluid dynamics and hydraulics, and it's essential for anyone working in backflow prevention and related fields to grasp this concept. Understanding how pressure relates to fluid height and the implications for backflow devices are crucial in ensuring the safety and efficacy of water systems.

4. What is the primary role of a check valve in backflow prevention?

- A. To allow forward flow only**
- B. To store water
- C. To measure pressure
- D. To filter contaminants

The primary role of a check valve in backflow prevention is to allow forward flow only. Check valves are designed to permit the flow of water in one direction while preventing any reverse flow, which is essential in maintaining the integrity of a water supply system. This function is crucial in backflow prevention because reverse flow can lead to contamination of the potable water supply. In systems where backflow may occur, check valves act as a first line of defense against the unintended movement of water, preventing contaminated water from entering clean water lines. Their construction typically includes a movable element, such as a disc or ball, that opens when water flows in the intended direction and closes when there is a reversal in flow, effectively sealing off the system. Understanding the specific function of check valves helps to highlight their importance in maintaining water quality and protecting public health.

5. How much pressure is exerted at the base of a column of water that is two feet tall?

- A. 0.5 psi
- B. 1.0 psi
- C. 0.86 psi**
- D. 1.5 psi

The pressure exerted at the base of a column of water is determined using the hydrostatic pressure formula: $\text{Pressure (psi)} = \text{height (ft)} \times 0.433 \text{ (psi/ft)}$. In this case, the height of the water column is two feet. Therefore, you can calculate the pressure as follows: $\text{Pressure} = 2 \text{ ft} \times 0.433 \text{ psi/ft} = 0.866 \text{ psi}$. Rounding this value to two decimal places, it simplifies to approximately 0.86 psi. This calculation aligns with the principles of fluid mechanics, specifically how hydrostatic pressure works in relation to the height of the fluid column. The derived pressure represents the force exerted on the area at the base of the column due to the weight of the water above it. In the context of the other options, they either reflect incorrect calculations or misunderstandings regarding the relationship between height and pressure in a fluid column.

6. What is the maximum allowable pressure loss during rated flow across a double check?

- A. 5 psi
- B. 10 psi**
- C. 15 psi
- D. 20 psi

The maximum allowable pressure loss during rated flow across a double check valve is set at 10 psi. This standard is in place to ensure that the system maintains adequate pressure while preventing backflow, which is crucial for protecting the potable water supply. A pressure loss exceeding this limit could indicate an improper function of the valve or potential system inefficiencies, which may compromise the integrity of the water supply and the effectiveness of the backflow prevention. Moreover, maintaining this specific pressure loss threshold helps to ensure that the double check valve operates within designed parameters, providing a reliable barrier against contamination and ensuring the smooth operation of the plumbing system. Proper understanding and adherence to this specification is vital for professionals in the field to ensure compliance with safety and operational standards.

7. Why is an air gap important in backflow prevention?

- A. It increases water flow
- B. It prevents cross-connections**
- C. It reduces water pressure
- D. It filters contaminants

An air gap is crucial in backflow prevention primarily because it effectively prevents cross-connections between potable water supplies and potentially contaminated water sources. By maintaining a physical separation between the clean and contaminated water systems, an air gap ensures that any back pressure or siphoning that might occur cannot draw polluted water into the drinking water system. This safety measure is particularly important because it acts as a barrier against the transmission of harmful contaminants, safeguarding public health. In cases where water supply systems are subject to fluctuations in pressure or contamination, air gaps provide a reliable means of protection by eliminating any potential pathways for backflow. In contrast, while air gaps may influence water flow and pressure or assist with filtration indirectly, their primary function within the realm of backflow prevention is to stop cross-connections from forming. This intrinsic role underlines why they are a fundamental component of any effective backflow prevention strategy.

8. What is the role of a test cock in a backflow prevention assembly?

- A. To regulate water flow
- B. To prevent leaks
- C. To establish flow for testing**
- D. To monitor water temperature

The primary function of a test cock in a backflow prevention assembly is to establish flow for testing. Test cocks are small valves that provide access points for testing equipment to measure the functionality and effectiveness of the backflow prevention device. During testing, water flow is allowed through these cocks to evaluate whether the assembly is properly preventing backflow, which is essential for ensuring the safety of the potable water supply. Test cocks are instrumental in confirming that the backflow prevention assembly is operating as intended by providing a way to simulate conditions and measure the differential pressure necessary for assessing the performance of the device. This functionality is critical for regular maintenance and compliance with safety standards in water systems, thereby helping to safeguard public health from potential contaminants.

9. Which component is present in a hose connection to provide high hazard protection?

- A. Check valve
- B. Pressure regulator
- C. Two check valves**
- D. Atmospheric vent

In a hose connection, the component that provides high hazard protection is the presence of two check valves. This arrangement is essential because high hazard systems, which may involve the use of hazardous substances, require robust measures to prevent any backflow of contaminated water into the potable water supply. Two check valves create a physical barrier that significantly reduces the likelihood of backflow. If one check valve were to fail, the second check valve acts as a safeguard, ensuring that contaminants cannot enter back into the drinking water system. This redundancy is a critical safety feature when dealing with potential cross-connections in environments where hazardous chemicals or contaminants are present. Therefore, having two check valves is mandated in many plumbing codes and standards to ensure compliance and enhance public health protection. The other components listed, while useful in various contexts, do not provide the same level of high hazard protection as the dual check valve setup does.

10. Which of the following will not create a closed loop piping system?

- A. Pressure relief valve**
- B. Closed gate valve
- C. Dual check
- D. Double check

A pressure relief valve is designed to open at a predetermined pressure to prevent overpressure in a system, thereby allowing fluid to escape or vent, which helps maintain safety and system integrity. When the pressure in the system rises to the set limit, the relief valve opens, thus breaking the continuity of the piping system. This action means that it does not create a closed loop, as it allows for fluid to leave the system. In comparison, a closed gate valve is meant to completely seal off flow in a pipe, thereby creating a closed system when in the closed position. Dual check and double check valves serve as backflow prevention devices that can also maintain a closed loop when they are properly functioning and installed correctly. Both of these devices prevent reverse flow and ensure that the system is sealed, thus contributing to a closed loop piping system.

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!

SAMPLE