

Cross Connection Specialist General Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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 hazard category would apply to a water change in color, odor, or taste without health risk?**
 - A. Non-Health Hazard / Aesthetic Hazard**
 - B. Health Hazard**
 - C. Severe Health Hazard**
 - D. Degree of Hazard**

- 2. Which areas are included in cross-connection control program knowledge?**
 - A. Device testing procedures only**
 - B. Program administration, device selection, hazard assessment, installation standards, testing procedures, and regulatory compliance**
 - C. Only installation standards**
 - D. Only regulatory compliance**

- 3. What does the ABPA CCS exam test?**
 - A. The AWWA M14 Manual**
 - B. Federal Regulation on Backflow Testing**
 - C. The Plumbing Code and Backflow Standards**
 - D. The Manual of Cross-Connection Control, 10th Edition, published by USC**

- 4. What causes water hammer in a backflow assembly?**
 - A. Rapid Valve Closure Causing a Pressure Shock Wave**
 - B. Air Entraining in the Lines**
 - C. Heating Water in a Closed System With a Downstream Check Valve**
 - D. Opening a Relief Valve When System Is Pressurized**

- 5. Which statement accurately describes PVBs when backpressure is possible?**
 - A. PVBs are approved for both backsiphonage and backpressure.**
 - B. PVBs protect against backsiphonage and backpressure equally.**
 - C. PVBs can be used for health hazards if installed properly.**
 - D. PVBs protect against backsiphonage only, and are not approved if backpressure is possible.**

- 6. Which term describes the pressure that remains during active water flow?**
- A. Static Pressure**
 - B. Dynamic Pressure**
 - C. Residual Pressure**
 - D. Atmospheric Pressure**
- 7. Which antifreeze is an industrial type and is toxic if ingested, requiring RPZ/RPDA protection?**
- A. Ethylene glycol**
 - B. Propylene glycol**
 - C. Glycerol**
 - D. Methanol**
- 8. What is considered the only absolute means of backflow prevention?**
- A. Cross-Connection**
 - B. Potable Water**
 - C. Air Gap**
 - D. Backflow**
- 9. Cross-connection hazards and potable supply**
- A. Garden Hose On A Faucet Is Not a Cross-Connection**
 - B. A Cross-Connection Only Occurs With a Private Well**
 - C. A Water Connection That Is Not a Cross-Connection**
 - D. Any Water Source Other Than the Approved Potable Supply, Such as a Private Well, Reclaimed Water, or Collected Rainwater, Is Always Considered a Cross-Connection If Connected to the Potable System**
- 10. Where is a backflow preventer commonly installed to protect the distribution system from a hazardous premises?**
- A. At the service connection (meter)**
 - B. Inside the building's basement**
 - C. At the water treatment plant**
 - D. On the irrigation line**

Answers

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

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Explanations

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1. Which hazard category would apply to a water change in color, odor, or taste without health risk?

A. Non-Health Hazard / Aesthetic Hazard

B. Health Hazard

C. Severe Health Hazard

D. Degree of Hazard

Color, odor, or taste changes in water point to an aesthetic hazard—issues that affect appearance or sensory quality but don't by themselves pose a health risk. Because no direct health threat is indicated by these sensory changes, this scenario fits the non-health or aesthetic hazard category. A health hazard involves contaminants or conditions that can cause illness, and a severe health hazard denotes a higher level of risk. The idea of a general "degree of hazard" isn't the specific category for this situation. So, treat the issue as an aesthetic concern that warrants further checking, rather than a health risk.

2. Which areas are included in cross-connection control program knowledge?

A. Device testing procedures only

B. Program administration, device selection, hazard assessment, installation standards, testing procedures, and regulatory compliance

C. Only installation standards

D. Only regulatory compliance

The breadth of knowledge needed to run a cross-connection control program is what this item tests. The best answer covers administration, device selection, hazard assessment, installation standards, testing procedures, and regulatory compliance. That full spectrum is essential because a safe and compliant program relies on managing the process (administration), choosing the right backflow prevention devices for different risks (device selection), identifying where backflow could occur (hazard assessment), ensuring devices and their installation meet required criteria (installation standards), regularly verifying that devices work as intended (testing procedures), and staying aligned with codes and reporting requirements (regulatory compliance). Focusing on just one area, like testing procedures or installation standards, misses other critical pieces. A program can have well-tested devices but poor administration or lax regulatory compliance, which undermines safety and accountability. Similarly, knowing only installation standards ignores device suitability, ongoing testing, and regulatory obligations that keep the program effective over time.

3. What does the ABPA CCS exam test?

- A. The AWWA M14 Manual
- B. Federal Regulation on Backflow Testing
- C. The Plumbing Code and Backflow Standards
- D. The Manual of Cross-Connection Control, 10th Edition, published by USC**

The essential focus is the Manual of Cross-Connection Control, 10th Edition, published by USC. This manual is the authoritative reference that underpins the cross-connection control program knowledge the ABPA CCS exam aims to assess, covering how to identify hazards, select and test backflow prevention devices, perform field surveys, and administer a cross-connection control program. While other documents or regulations touch on related topics, they are not the central source the exam relies on.

4. What causes water hammer in a backflow assembly?

- A. Rapid Valve Closure Causing a Pressure Shock Wave
- B. Air Entraining in the Lines
- C. Heating Water in a Closed System With a Downstream Check Valve**
- D. Opening a Relief Valve When System Is Pressurized

Water hammer is a pressure surge caused by a sudden change in fluid velocity in a pipe. In a backflow assembly, when a valve closes rapidly, the moving water cannot stop instantly, so a high-pressure wave is generated that travels through the system and can cause pipes to rattle or fail. Heating water in a closed system with a downstream check valve can raise pressure due to thermal expansion, but that creates a gradual pressure rise rather than the abrupt transient shock of water hammer. Air in the lines can cushion and reduce hammer, while opening a relief valve relieves pressure rather than causing the surge.

5. Which statement accurately describes PVBs when backpressure is possible?

- A. PVBs are approved for both backsiphonage and backpressure.
- B. PVBs protect against backsiphonage and backpressure equally.
- C. PVBs can be used for health hazards if installed properly.
- D. PVBs protect against backsiphonage only, and are not approved if backpressure is possible.**

The main idea is how a PVB functions in different backflow scenarios. A PVB is designed to prevent backsiphonage by venting to the atmosphere when supply pressure drops, stopping a siphon from pulling contaminants back into the potable supply. However, in a backpressure situation, downstream pressure can push water back toward the source, and a PVB is not built to withstand that reverse pressure. Because of this, PVBs are not approved for use when backpressure could occur. For systems where backpressure is possible (or where health hazards exist), other devices such as RPZs or double-check assemblies are used. So the statement that best fits is that PVBs protect against backsiphonage only and are not approved if backpressure is possible.

6. Which term describes the pressure that remains during active water flow?

- A. Static Pressure**
- B. Dynamic Pressure**
- C. Residual Pressure**
- D. Atmospheric Pressure**

Residual pressure is the pressure that remains in a water line while water is actively flowing. When water isn't moving, the pressure in the pipe is static pressure. Dynamic pressure, on the other hand, comes from the water's velocity and represents the energy of motion. Atmospheric pressure is the pressure of the surrounding air, not the pressure inside the pipe. So, the term that best describes the pressure present in the line during active flow is residual pressure.

7. Which antifreeze is an industrial type and is toxic if ingested, requiring RPZ/RPDA protection?

- A. Ethylene glycol**
- B. Propylene glycol**
- C. Glycerol**
- D. Methanol**

The main idea here is that when a fluid used in an industrial system could come into contact with the potable water supply, it must be protected by an effective backflow prevention device. Ethylene glycol fits this scenario because it's a common industrial antifreeze, but it's extremely toxic if ingested. Even small amounts can cause serious health problems, including kidney failure and metabolic acidosis, so systems containing it must have a high-hazard backflow prevention device such as an RPZ (and RPDA when applicable) to prevent any reverse flow into drinking water. Propylene glycol is much less toxic and is often used in safer formulations, while glycerol and methanol have different usages and toxicity profiles that don't align as closely with the described industrial antifreeze scenario. The emphasis in this context is on ethylene glycol's combination of widespread industrial use and high toxicity, which necessitates robust backflow protection.

8. What is considered the only absolute means of backflow prevention?

- A. Cross-Connection**
- B. Potable Water**
- C. Air Gap**
- D. Backflow**

Air gap is the only absolute means of backflow prevention because it creates a true physical separation between the potable water outlet and the potential source of contamination. With no hydraulic connection, contaminants cannot be drawn back into the supply, even if there are pressure fluctuations or siphoning conditions. Other methods rely on devices or valves that can fail, require proper maintenance, or can be bypassed, so they aren't foolproof in every scenario. The term cross-connection refers to a hazardous link that could allow backflow; potable water is the supply itself; backflow is the unwanted event you're guarding against. So the air gap provides a fail-safe barrier.

9. Cross-connection hazards and potable supply

- A. Garden Hose On A Faucet Is Not a Cross-Connection
- B. A Cross-Connection Only Occurs With a Private Well
- C. A Water Connection That Is Not a Cross-Connection
- D. Any Water Source Other Than the Approved Potable Supply, Such as a Private Well, Reclaimed Water, or Collected Rainwater, Is Always Considered a Cross-Connection If Connected to the Potable System**

Cross-connections create a pathway for contaminants to enter the potable water supply whenever a non-potable source is tied into the system. A cross-connection is any physical link between the clean water system and a source that could carry contaminants—such as a private well, reclaimed water, or collected rainwater—so that if backflow occurs, contaminants could be drawn into the drinking water. Because any such non-potable source connected to the potable system can pose a contamination risk, it's correct to say these sources are always considered cross-connections when connected to the potable supply. That's why backflow prevention devices and air gaps are used: they stop backward flow during pressure changes and protect the drinking water. Common misunderstandings include thinking a garden hose on a faucet isn't a cross-connection. In reality, a hose can create a backflow path, especially if it's used to fill a container, reach a pool, or is submerged in chemicals or dirty water. Cross-connections aren't limited to private wells either; any non-potable source connected to the potable system can be hazardous, and treating those connections as non-issues isn't correct.

10. Where is a backflow preventer commonly installed to protect the distribution system from a hazardous premises?

- A. At the service connection (meter)**
- B. Inside the building's basement
- C. At the water treatment plant
- D. On the irrigation line

Backflow prevention is about stopping contaminants from being drawn back into the public water supply when there's a cross-connection on the property. The most effective and standard location for the device is at the service connection where the property line meets the public main. Placing it here creates a barrier that protects the entire distribution system from any backflow originating on the premises. If the device were inside the building, a backflow could still threaten the distribution because the control point wouldn't isolate the whole path back to the street. Installing it at the water treatment plant isn't about protecting a specific premises and isn't practical for this purpose. An irrigation-line device would guard only that branch and wouldn't safeguard the whole distribution system from backflow from hazardous premises.

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://crossconnectionspecialistgen.examzify.com>

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

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