

CROSS CONNECTION SPECIALIST GENERAL PRACTICE TEST (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 document is the primary technical reference for device evaluation and cross-connection control procedures?

- A. AWWA M14 Manual
- B. The Safe Drinking Water Act
- C. The Manual of Cross-Connection Control, 10th Edition, published by USC
- D. The USC Approved Assembly List

2. What is a 'bleed' in testing?

- A. Opening a test cock or needle valve to release trapped pressure and allow accurate gauge readings
- B. Releasing pressure by opening the main valve
- C. Bleeding air from the water main in the street
- D. Venting gas line

3. What is the typical minimum retention period for test reports and survey records in Washington?

- A. 2 years
- B. 5 years
- C. 10 years
- D. 1 year

4. Where does the RPZ relief valve discharge?

- A. To atmosphere
- B. Into the sewer
- C. Back into the supply line
- D. Into the downstream line

5. What is thermal expansion and why is it a concern with backflow devices?

- A. Temperature Increase Without Pressure Change
- B. Debris Buildup in Valve
- C. Increase in Volume Due to Heating, Creating Backpressure
- D. Pressure Loss Across the Check Valve

- 6. On fire systems with antifreeze or foam, which backflow device is used?**
- A. Atmospheric Vacuum Breaker (AVB)
 - B. Spill-Resistant Vacuum Breaker (SRVBA)
 - C. Reduced Pressure Detector Assembly (RPDA)
 - D. Double Check Detector Assembly (DCDA)
- 7. A fire-system device consisting of a mainline RPZ with a small-meter bypass RPZ; used on fire systems with chemical additives (antifreeze or foam).**
- A. Atmospheric Vacuum Breaker (AVB)
 - B. Spill-Resistant Vacuum Breaker (SRVBA)
 - C. Double Check Detector Assembly (DCDA)
 - D. Reduced Pressure Detector Assembly (RPDA)
- 8. For underground RPZ installations in fire systems, which configuration is allowed?**
- A. RPDA in an approved vault
 - B. RPZ cannot be buried underground
 - C. Air Gap
 - D. DCDA
- 9. Which backflow prevention device is described as a testable backflow preventer with a spring-loaded check valve and an air inlet valve; protects against backsiphonage only?**
- A. RPZ/RPBA
 - B. PVBA
 - C. DCVA/DC
 - D. Air Gap
- 10. What is the general objective of the RPZ/DC test criteria for each check valve?**
- A. To ensure the valve holds at least 1.0 psi differential
 - B. To ensure the valve opens at 0.0 psi
 - C. To monitor electrical current in the valve
 - D. To measure water temperature in the line

Answers

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

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Explanations

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1. Which document is the primary technical reference for device evaluation and cross-connection control procedures?

- A. AWWA M14 Manual
- B. The Safe Drinking Water Act
- C. The Manual of Cross-Connection Control, 10th Edition, published by USC**
- D. The USC Approved Assembly List

The main idea is that there is one definitive reference that standardizes how backflow prevention devices are tested and how cross-connection control programs are run. The Manual of Cross-Connection Control, 10th Edition, published by USC, provides the detailed procedures for evaluating devices, including the exact test methods, acceptance criteria, and the steps utilities follow to inspect, test, and maintain cross-connection control programs. Because it lays out the standardized testing and evaluation criteria used by testers and regulators, it serves as the primary technical reference for both device evaluation and cross-connection control procedures. Other sources cover related areas but not the core evaluation methods. AWWA M14 offers guidance on backflow prevention in general, but the USC Manual is the reference specifically focused on the evaluation procedures and program requirements. The Safe Drinking Water Act is regulatory policy at a higher level, not a how-to guide for testing and evaluation. The USC Approved Assembly List is a catalog of devices that have been approved for use, not the instructional guide for how to evaluate devices or implement cross-connection controls.

2. What is a 'bleed' in testing?

- A. Opening a test cock or needle valve to release trapped pressure and allow accurate gauge readings**
- B. Releasing pressure by opening the main valve
- C. Bleeding air from the water main in the street
- D. Venting gas line

Bleeding in testing refers to opening a small bleed point, such as a test cock or needle valve, to release trapped air or pressure from the test line so the gauge readings reflect the true system conditions. This is essential because air in the line can cushion and distort pressure readings, leading to incorrect conclusions about how a backflow prevention device performs. By bleeding, you eliminate air pockets and ensure the measurements show the real pressure on each side of the device, which is necessary for an accurate test. Other options don't fit because they describe broad or unrelated actions: opening the main valve releases pressure but isn't a controlled bleed for obtaining accurate gauge readings; bleeding air from the water main in the street is a distribution-system operation, not part of a device under test; venting a gas line is a different context entirely from water-system testing.

3. What is the typical minimum retention period for test reports and survey records in Washington?

- A. 2 years
- B. 5 years**
- C. 10 years
- D. 1 year

The main idea is how long agencies expect you to keep records so they're available for audits, investigations, and future reference. In Washington, the typical minimum retention for test reports and survey records is five years. This duration is long enough to observe data over multiple testing cycles and to support any regulatory inquiries or enforcement actions that might come up within a reasonable period. Shorter timeframes, like one or two years, might not cover enough history to verify compliance or identify trends, while much longer retention is often more burdensome without additional regulatory benefit. If in doubt, check with the specific local or program authority, but five years is the standard you're likely to encounter.

4. Where does the RPZ relief valve discharge?

- A. To atmosphere**
- B. Into the sewer
- C. Back into the supply line
- D. Into the downstream line

The main idea is that the relief valve on an RPZ is meant to vent to the outside air. When the RPZ detects a fault or pressure condition that could push contaminated water back toward the potable system, the relief valve opens and releases water to the atmosphere. This keeps any potentially contaminated water from staying inside the piping or being directed into the sewer in a way that could compromise the supply. Venting to atmosphere provides a safe, visible outlet that cannot create a backflow path into the potable system. If the discharge were routed into a sewer or back into the supply line, it could fail to isolate contaminants or even reintroduce them into the drinking water.

5. What is thermal expansion and why is it a concern with backflow devices?

- A. Temperature Increase Without Pressure Change
- B. Debris Buildup in Valve
- C. Increase in Volume Due to Heating, Creating Backpressure
- D. Pressure Loss Across the Check Valve**

Thermal expansion is the increase in volume that a substance experiences when its temperature rises. In a closed plumbing system, that extra volume has to go somewhere, so pressure builds up upstream—creating backpressure. Backflow devices must cope with this higher pressure because it can push water back through a check valve or interfere with the valve's seal, potentially compromising backflow protection. So the crucial idea is that heating causes volume growth, leading to backpressure that matters for how backflow devices operate. The other ideas don't reflect how expansion under heat changes pressure in a restricted system, which is why they're not the correct description.

6. On fire systems with antifreeze or foam, which backflow device is used?

- A. Atmospheric Vacuum Breaker (AVB)
- B. Spill-Resistant Vacuum Breaker (SRVBA)
- C. Reduced Pressure Detector Assembly (RPDA)**
- D. Double Check Detector Assembly (DCDA)

When a fire protection system carries antifreeze or foam concentrate, there's a real risk that if backflow occurs, these chemicals could enter the potable water supply. To prevent that, the backflow protection must be very robust and capable of being monitored. The device used in this scenario is the Reduced Pressure Detector Assembly. The reduced-pressure principle provides two independent check valves plus a relief valve that dumps to drain if the pressure on the protected side falls, so backflow is kept from the drinking water. The detector assembly adds test ports and a means to continuously monitor and verify that the backflow prevention is functioning correctly, which is crucial when hazardous chemicals like antifreeze or foam are involved. This combination offers stronger protection and accountability than simpler devices. Atmospheric vacuum breakers or spill-resistant vacuum breakers can vent to the atmosphere and are vulnerable to backpressure, making them unsuitable for main fire lines carrying antifreeze or foam. A double check with detectors offers some protection, but the reduced-pressure design with detector capability provides the higher level of protection and testability required for these high-hazard applications.

7. A fire-system device consisting of a mainline RPZ with a small-meter bypass RPZ; used on fire systems with chemical additives (antifreeze or foam).

- A. Atmospheric Vacuum Breaker (AVB)
- B. Spill-Resistant Vacuum Breaker (SRVBA)
- C. Double Check Detector Assembly (DCDA)
- D. Reduced Pressure Detector Assembly (RPDA)**

Backflow prevention in fire systems that use chemical additives. When antifreeze or foam concentrates are present, the potable water supply must be protected from any cross-connection that could siphon back into it. The device described—a mainline reduced-pressure zone backflow preventer with a small-meter bypass RPZ—is a Reduced Pressure Detector Assembly (RPDA). This configuration combines the high level of backflow protection of a reduced-pressure mechanism with a detector feature to monitor for any leakage or backflow, and it often includes a bypass line with metering for monitoring the additives. The reduced-pressure principle keeps the downstream side at a lower pressure than the upstream side, and the detector aspect provides an alarm if the relief valve releases or if there's any backflow condition. This setup is specifically suited for fire systems using chemical additives because it offers robust protection against contamination of the potable water supply and enables monitoring of the system's integrity, which is critical when additives are involved. Other options don't provide the same combination of high-hazard protection and detectable, monitored operation required in antifreeze or foam-fire-suppression scenarios. An atmospheric vacuum breaker or spill-resistant valve does not offer adequate protection under continuous pressure and potential backpressure found in fire lines. A detector assembly with double-check valves offers some protection, but the reduced-pressure detector arrangement is preferred for the stricter safeguards needed with chemical additives.

8. For underground RPZ installations in fire systems, which configuration is allowed?

- A. RPDA in an approved vault**
- B. RPZ cannot be buried underground
- C. Air Gap
- D. DCDA

The main idea is that underground fire system backflow preventers must be protected and accessible for testing. Placing a Reduced Pressure Detector Assembly inside an approved vault meets both needs: the vault shields the device from soil, water, and physical damage, and it provides a safe, code-approved access point for annual tests and maintenance. This configuration ensures proper venting and drainage as required, while keeping the device reachable for inspectors. Burying a backflow device without a vault, using an air gap as a setup, or using a detector assembly that isn't vault-protected does not provide the necessary accessibility or protection, so those options aren't allowed.

9. Which backflow prevention device is described as a testable backflow preventer with a spring-loaded check valve and an air inlet valve; protects against backsiphonage only?

- A. RPZ/RPBA
- B. PVBA**
- C. DCVA/DC
- D. Air Gap

Backflow prevention is all about stopping reverse flow that could contaminate the supply. Backsiphonage occurs when pressure drops and siphons water back into the system. A Pressure Vacuum Breaker Assembly is built specifically to guard against backsiphonage. It uses a spring-loaded check valve to block reverse flow and an air-inlet valve to admit air if a vacuum forms, breaking the siphon. It's testable through standard backflow tests to ensure the check valve seals and the air-inlet vent operates correctly. It protects only against backsiphonage, not backpressure, because it lacks the features needed to guard against pressure pushing water backward (such as an additional relief mechanism). The other devices either rely on multiple check valves without an air inlet and cover both backsiphage and backpressure, or are non-testable options like an air gap, which isn't a testable backflow preventer.

10. What is the general objective of the RPZ/DC test criteria for each check valve?

- A. To ensure the valve holds at least 1.0 psi differential**
- B. To ensure the valve opens at 0.0 psi
- C. To monitor electrical current in the valve
- D. To measure water temperature in the line

The main idea being tested is whether each check valve in an RPZ (or DC) arrangement can hold back pressure reliably. During testing, a controlled pressure is applied across the valve and gauges verify that the valve seats tightly enough to maintain a minimum differential, specifically at least 1 psi, across the valve. This minimum differential ensures there's no reverse flow through the valve under normal service conditions, which is the essential function of backflow prevention. If the valve cannot maintain that 1 psi differential, it may leak when pressure is applied and backflow could occur, threatening potable water quality. The other options don't address backflow prevention or valve seating: opening at zero pressure would not prevent reverse flow, and electrical current or water temperature have no role in verifying a check valve's ability to stop backflow.

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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