

# Cross Connection Practice Exam (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. What effect does opening the high side and then the low side control valves have on a properly functioning Reduced Pressure Principle Assembly?**
  - A. The differential will increase**
  - B. The differential will decrease**
  - C. No effect on differential**
  - D. It will cause a backflow**
  
- 2. Which action should be taken if backflow occurs in a plumbing system?**
  - A. Increase pressure in the system**
  - B. Install a new water line**
  - C. Inspect and repair backflow prevention devices**
  - D. Flush the system with chemicals**
  
- 3. What is the required differential pressure across check valve #1 for Reduced Pressure Principle Backflow Assemblies?**
  - A. 2.0 psid**
  - B. 3.0 psid**
  - C. 4.0 psid**
  - D. 5.0 psid**
  
- 4. What is the best description of installing backflow prevention assemblies at the point of hazard within a premise?**
  - A. External protection**
  - B. Point of Use protection**
  - C. Internal protection**
  - D. Site specific protection**
  
- 5. The primary concern to the water purveyor, when an auxiliary water supply is utilized, or maintained, is to ensure that:**
  - A. Adequate pressure is maintained**
  - B. Backflow protection is provided at the water service connection**
  - C. Water quality is consistently monitored**
  - D. Usage is within regulatory limits**

- 6. To whom is a certified backflow assembly tester required to report backflow prevention field test information?**
- A. The Client**
  - B. The Manufacturer**
  - C. The Administrative Authority**
  - D. The Local Health Department**
- 7. Why should irrigation systems be equipped with backflow prevention devices?**
- A. To provide better water pressure during droughts**
  - B. To prevent pesticides and fertilizers from contaminating the drinking water supply**
  - C. To minimize maintenance costs**
  - D. To extend the life of the irrigation equipment**
- 8. What component's malfunction could potentially lead to the failure of a backflow prevention assembly?**
- A. Shutoff valves**
  - B. Pressure gauges**
  - C. Backflow preventers**
  - D. Test cocks**
- 9. For the second test of a Double Check Valve Assembly, what is the positioning of the shut-off valves?**
- A. Both shutoff valves are closed**
  - B. Shutoff valve #1 is closed and shutoff valve #2 is closed**
  - C. Shutoff valve #1 is open and shutoff valve #2 is closed**
  - D. Shutoff valve #1 is closed and shutoff valve #2 is open**
- 10. Which backflow prevention assembly is often used for irrigation systems?**
- A. Air Gap**
  - B. Double Check Valve Assembly**
  - C. Reduced Pressure Principle Assembly**
  - D. Single Check Valve**

## **Answers**

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

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## **Explanations**

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**1. What effect does opening the high side and then the low side control valves have on a properly functioning Reduced Pressure Principle Assembly?**

- A. The differential will increase
- B. The differential will decrease**
- C. No effect on differential
- D. It will cause a backflow

Opening the high side control valve and then the low side control valve of a Reduced Pressure Principle Assembly (RPPA) will result in a decrease in the differential pressure across the assembly. This is because the RPPA is designed to maintain a specific pressure differential between the inlet and the outlet to ensure that contaminants do not flow back into the potable water supply. When the high side valve is opened, the flow of water increases, which can temporarily elevate the pressure on the inlet side. However, simultaneously opening the low side control valve allows for more water to exit the assembly, which reduces the pressure downstream. The combination of these two actions effectively decreases the pressure differential, as water flow through the assembly increases without a corresponding increase in pressure in the zone being supplied. Maintaining the correct differential pressure is crucial for the RPPA to function effectively as a backflow prevention device. If the differential were to increase or remain unchanged, it could indicate potential malfunction or inadequate protection against backflow, which the RPPA is specifically designed to prevent. Therefore, the action of opening both valves results in a decrease in differential pressure, confirming the correct choice.

**2. Which action should be taken if backflow occurs in a plumbing system?**

- A. Increase pressure in the system
- B. Install a new water line
- C. Inspect and repair backflow prevention devices**
- D. Flush the system with chemicals

When backflow occurs in a plumbing system, it indicates that contaminated water is flowing back into the clean water supply, which can pose serious health risks. The correct course of action is to inspect and repair backflow prevention devices. These devices are specifically designed to prevent backflow and protect the potable water supply. If these devices are malfunctioning, they need to be assessed to ensure they are operating correctly. This may involve checking for physical damage, wear, or any obstructions that could hinder their performance. Addressing the integrity of backflow prevention devices is critical in safeguarding drinking water quality. By repairing or replacing these devices as needed, you can effectively restore proper flow and ensure safe water delivery. Other actions, such as increasing pressure in the system, could exacerbate the issue by pushing contaminated water further into the supply. Installing a new water line is unnecessary if the existing system can be repaired. Flushing the system with chemicals may not address the cause of backflow and could introduce harmful substances into the water system, potentially creating new health risks. Therefore, inspecting and repairing backflow prevention devices is the most responsible and effective action to take when dealing with backflow.

**3. What is the required differential pressure across check valve #1 for Reduced Pressure Principle Backflow Assemblies?**

- A. 2.0 psid
- B. 3.0 psid**
- C. 4.0 psid
- D. 5.0 psid

The required differential pressure across check valve #1 for Reduced Pressure Principle Backflow Assemblies is 3.0 psid. This pressure differential is crucial for the proper operation of the assembly, as it ensures that the pressure is maintained on the supply side of the system higher than the pressure in the atmosphere, preventing any backflow of contaminated water into the potable water supply. In Reduced Pressure Principle assemblies, the differential pressure across the first check valve needs to be suitable enough to keep the valve sealed against backflow. When the pressure differential is maintained at this level, it assures that the check valve operates effectively, minimizing the risk of potential contamination. This specific requirement also reflects industry standards for ensuring safety and compliance with plumbing codes, which are critical in protecting public health.

**4. What is the best description of installing backflow prevention assemblies at the point of hazard within a premise?**

- A. External protection
- B. Point of Use protection
- C. Internal protection**
- D. Site specific protection

The best description of installing backflow prevention assemblies at the point of hazard within a premise is internal protection. This approach entails placing devices within the building or facility where potential cross-connection hazards exist, ensuring that contaminants do not enter the potable water supply. By installing these assemblies at the point of hazard, you effectively protect the internal plumbing system and the public water supply from any backflow of unwanted materials. Internal protection is essential because it targets specific risks that may arise from various fixtures or appliances, such as hoses, sinks, or irrigation systems that could inadvertently introduce contaminants. By addressing these hazards where they occur, the integrity of the drinking water system is maintained, creating a safer environment for users. In addition to this, while external protection and point of use protection might suggest methods to mitigate risks from outside sources or specific usages, they do not capture the comprehensive focus on internal hazards that inner backflow prevention offers. Similarly, site-specific protection emphasizes the unique features or requirements of a particular location, which may not address the direct installation of backflow prevention devices at the hazardous points directly. Thus, internal protection best encapsulates the concept of safeguarding the water supply within a premise.

5. The primary concern to the water purveyor, when an auxiliary water supply is utilized, or maintained, is to ensure that:
- A. Adequate pressure is maintained
  - B. Backflow protection is provided at the water service connection**
  - C. Water quality is consistently monitored
  - D. Usage is within regulatory limits

The primary concern for the water purveyor when an auxiliary water supply is utilized or maintained is to ensure that backflow protection is provided at the water service connection. This is crucial because an auxiliary water supply can introduce contaminants into the drinking water system if not properly managed. Backflow occurs when there is a reversal of flow in the water distribution system, which can happen due to changes in pressure or other factors. If backflow occurs and proper protection measures, such as backflow preventers, are not in place, water from the auxiliary supply could flow back into the public water system, potentially compromising water quality and safety. Therefore, implementing backflow protection is an essential step to prevent contamination, maintain the integrity of the municipal water supply, and protect public health.

6. To whom is a certified backflow assembly tester required to report backflow prevention field test information?
- A. The Client
  - B. The Manufacturer
  - C. The Administrative Authority**
  - D. The Local Health Department

The correct choice indicates that a certified backflow assembly tester is required to report backflow prevention field test information to the Administrative Authority. This is essential because the Administrative Authority is typically responsible for overseeing public health and safety regulations concerning water supply systems. Reporting test results to this body helps ensure compliance with established standards and regulations designed to protect potable water from contamination and backflow incidents. Maintaining accurate records of backflow prevention tests with the Administrative Authority enables ongoing monitoring of drinking water safety and informs necessary actions that may be required to address compliance issues. This oversight is crucial in preventing potential hazards associated with backflow, ensuring that the water system remains safe for public use. Other entities, while they may have an interest in backflow prevention results, do not typically hold the same regulatory responsibilities that necessitate direct reporting. For instance, the client or the local health department may receive results, but the formal reporting obligation lies with the Administrative Authority to maintain accountability and regulatory oversight.

**7. Why should irrigation systems be equipped with backflow prevention devices?**

- A. To provide better water pressure during droughts**
- B. To prevent pesticides and fertilizers from contaminating the drinking water supply**
- C. To minimize maintenance costs**
- D. To extend the life of the irrigation equipment**

Irrigation systems need to be equipped with backflow prevention devices primarily to protect the drinking water supply from contamination. When irrigation systems are used, they often involve the application of chemicals such as pesticides and fertilizers. If there is a drop in water pressure or a backflow event, these harmful substances can siphon back into the potable water system, posing serious health risks to humans and animals. Backflow prevention devices work by ensuring that water flows in one direction, thereby safeguarding the public water supply from potential pollutants that could compromise water quality. The other options, while they may have relevance to irrigation systems, do not address the critical health and safety concern of preventing contamination. For instance, providing better water pressure may improve irrigation efficiency but does not inherently protect drinking water. Minimizing maintenance costs and extending the life of irrigation equipment are important considerations but secondary to ensuring the safety and quality of drinking water. Hence, the installation of backflow prevention devices is crucial for public health and compliance with health regulations regarding safe drinking water standards.

**8. What component's malfunction could potentially lead to the failure of a backflow prevention assembly?**

- A. Shutoff valves**
- B. Pressure gauges**
- C. Backflow preventers**
- D. Test cocks**

The malfunction of shutoff valves can significantly impact the functionality of a backflow prevention assembly. Shutoff valves are critical components that are used to control the flow of water within a plumbing system. If these valves fail, it can prevent the backflow prevention assembly from operating correctly. For instance, if a shutoff valve does not close properly, it can create conditions under which backflow can occur, allowing contaminated water to flow back into the clean water supply. This situation negates the purpose of the backflow prevention assembly, which is designed to ensure that drinking water remains uncontaminated by allowing only one-way water flow. Understanding the role of shutoff valves highlights their importance in maintaining the integrity of water systems and protecting public health from potential contamination risks that can arise from malfunctioning or improperly functioning plumbing components.

**9. For the second test of a Double Check Valve Assembly, what is the positioning of the shut-off valves?**

- A. Both shutoff valves are closed**
- B. Shutoff valve #1 is closed and shutoff valve #2 is closed**
- C. Shutoff valve #1 is open and shutoff valve #2 is closed**
- D. Shutoff valve #1 is closed and shutoff valve #2 is open**

The positioning of the shut-off valves for the second test of a Double Check Valve Assembly is significant in ensuring accurate testing and effective operation of the assembly. When performing the second test, it is essential that shutoff valve #1 is open while shutoff valve #2 remains closed. This configuration allows the tester to apply pressure and check for leaks in the system effectively. By opening shutoff valve #1, you facilitate the flow of water into the assembly, enabling the tester to observe if the backflow prevention mechanism is functioning correctly. Closing shutoff valve #2 isolates the downstream side from the test, allowing the tester to determine if the assembly maintains the necessary back-pressure without allowing any potential contaminants to flow backwards into the system. This approach ensures that each component of the assembly is assessed under real working conditions, while also maintaining safety and compliance with standards in cross-connection control.

**10. Which backflow prevention assembly is often used for irrigation systems?**

- A. Air Gap**
- B. Double Check Valve Assembly**
- C. Reduced Pressure Principle Assembly**
- D. Single Check Valve**

The Reduced Pressure Principle Assembly is often used for irrigation systems due to its effective protection against backflow and cross-connection risks. This assembly is specifically designed to prevent any contamination of the potable water supply that might occur through back siphonage or backpressure, which can be a concern in irrigation systems that may come into contact with fertilizers, chemicals, or other potentially harmful substances. The design of the Reduced Pressure Principle Assembly includes two independently acting check valves, along with a pressure differential relief valve located between them. This configuration ensures that if one check valve fails, the other still provides a barrier, and the relief valve prevents any situation that would allow backflow into the potable water supply. Furthermore, this assembly maintains a reduced pressure in the zone that feeds water to the irrigation system, effectively mitigating the risk of contaminants entering the public water system. Irrigation systems often deal with various pressures and can experience backflow situations, making the Reduced Pressure Principle Assembly an ideal choice for ensuring safe drinking water standards are maintained.

## 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](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://crossconnection.examzify.com>**

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

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