

NICET Level 2 Inspection, Testing, and Maintenance (ITM) of Water Based Systems Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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	16

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. Which criteria should not be considered in the selection of sprinklers to be tested?**
 - A. Age of the sprinklers**
 - B. Ease of access**
 - C. Material of construction**
 - D. Type of sprinkler system**

- 2. What is one of the substances used for the protection of CPVC sprinkler systems?**
 - A. Glycerin**
 - B. Ethylene**
 - C. Diethylene**
 - D. Propylene**

- 3. A standpipe missing the hydraulic information sign is a/an _____?**
 - A. Non-critical deficiency**
 - B. Critical deficiency**
 - C. Impairment**
 - D. System failure**

- 4. What is the focus of NFPA 25 Chapter 9?**
 - A. Foam-Water Sprinkler Systems**
 - B. Water Storage Tanks**
 - C. Water Spray Fixed Systems**
 - D. Valves and Valve Components**

- 5. NFPA 25 Chapter 5 primarily addresses which type of systems?**
 - A. Water Supply Systems**
 - B. Fire Alarm Systems**
 - C. Sprinkler Systems**
 - D. Emergency Evacuation Systems**

- 6. When is it recommended to perform an air test at 25 PSI before introducing water into the system?**
- A. When pressure is low**
 - B. When water damage is a concern**
 - C. When the system is new**
 - D. When the system has been repaired**
- 7. What should be open to perform a main drain test correctly?**
- A. Main drain valve**
 - B. Alarm control valve**
 - C. Flow control valve**
 - D. Water supply valve**
- 8. What is the minimum number of antifreeze samples recommended to be tested?**
- A. 1**
 - B. 2**
 - C. 3**
 - D. 4**
- 9. How many years of service must sprinklers be replaced or tested?**
- A. 25 years**
 - B. 50 years**
 - C. 10 years**
 - D. 15 years**
- 10. During pressure testing of a dry pipe system, what is the acceptable psi loss over the duration of the test?**
- A. 1 psi**
 - B. 2 psi**
 - C. 3 psi**
 - D. 5 psi**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. Which criteria should not be considered in the selection of sprinklers to be tested?

- A. Age of the sprinklers**
- B. Ease of access**
- C. Material of construction**
- D. Type of sprinkler system**

The selection of sprinklers for testing should consider various factors to ensure effective maintenance and reliability of the system. While ease of access is an important operational consideration, it should not be a primary criterion in the initial selection of which sprinklers to test. The age of the sprinklers is significant because older sprinklers may have a higher likelihood of having degraded performance due to factors like corrosion or wear. The material of construction impacts the durability and efficacy of the sprinklers under different conditions, particularly in environments that may be corrosive or subject to extreme temperatures. The type of sprinkler system in place informs the testing procedures and the performance requirements; different systems will have different operational expectations. In contrast, ease of access, while relevant for practical inspection and testing execution, does not affect the fundamental criteria related to the condition and functionality of the sprinklers themselves. Therefore, it should not weigh as heavily in the decision-making process regarding which sprinklers are selected for testing.

2. What is one of the substances used for the protection of CPVC sprinkler systems?

- A. Glycerin**
- B. Ethylene**
- C. Diethylene**
- D. Propylene**

Glycerin is commonly utilized in the protection of CPVC (Chlorinated Polyvinyl Chloride) sprinkler systems due to its characteristics that safeguard the material from degradation. CPVC is sensitive to certain chemicals, particularly those that can lead to stress cracks or compromise its integrity. Glycerin serves as a more compatible option because it does not interact adversely with CPVC and can help to maintain the operational functionality of the sprinkler system in various environmental conditions. This compatibility is particularly critical in preventing corrosion and ensuring a longer life span for the sprinkler components. Other substances, while potentially useful in other applications, are not generally recommended for use with CPVC due to their potential to cause damage or degradation.

3. A standpipe missing the hydraulic information sign is a/an _____?

- A. Non-critical deficiency**
- B. Critical deficiency**
- C. Impairment**
- D. System failure**

In the context of standpipe systems, a hydraulic information sign plays an essential role in providing critical data for firefighting operations, including the flow rate and pressure available through the standpipe. If a standpipe is missing this sign, it can impact the effectiveness of emergency response but does not immediately hinder the operational capability of the standpipe itself. Labeling this situation as a non-critical deficiency indicates that while it is an important component for safety and operational awareness, its absence does not render the standpipe system non-functional or unsafe on its own. Non-critical deficiencies are those that can be rectified without causing a significant immediate risk to life or safety. They require attention to ensure the system operates optimally but do not necessitate immediate corrective actions that would inhibit the system's overall capability to function during an emergency. In contrast, critical deficiencies or impairments would involve situations that could directly compromise life safety or the proper function of the system in an emergency. A system failure would mean the standpipe is entirely inoperable, which is not the case simply due to the absence of the sign. Hence, identifying this issue as a non-critical deficiency accurately reflects its nature and the urgency of corrective actions required.

4. What is the focus of NFPA 25 Chapter 9?

- A. Foam-Water Sprinkler Systems**
- B. Water Storage Tanks**
- C. Water Spray Fixed Systems**
- D. Valves and Valve Components**

The focus of NFPA 25 Chapter 9 is indeed on water storage tanks. This chapter addresses the requirements for the inspection, testing, and maintenance of water storage tanks that are an integral part of water-based fire protection systems. It emphasizes the importance of ensuring that these tanks are maintained in good operational condition, which is crucial for ensuring adequate water supply for fire protection purposes. This chapter outlines various components, such as the assessment of tank condition, structural integrity, and proper functioning of all related systems. Regular inspections are essential to identify any potential issues that could compromise the ability of the tank to provide water during a fire emergency. Understanding the specifications in Chapter 9 helps professionals ensure compliance with safety standards and proper functionality of water storage systems, thereby supporting overall fire protection strategies.

5. NFPA 25 Chapter 5 primarily addresses which type of systems?

- A. Water Supply Systems**
- B. Fire Alarm Systems**
- C. Sprinkler Systems**
- D. Emergency Evacuation Systems**

NFPA 25 Chapter 5 specifically addresses the inspection, testing, and maintenance of sprinkler systems within fire protection systems. This chapter provides guidelines that are essential for ensuring that sprinkler systems operate effectively when needed and are maintained according to recognized standards. Regular inspections and testing outlined in this chapter help to identify any deficiencies or malfunctions in the sprinkler system, making it crucial for safety and compliance. The details provided in this chapter cover aspects such as the frequency of inspections, testing protocols, and maintenance requirements necessary to keep the systems in optimal operating condition. It emphasizes the importance of maintaining these critical life-safety systems to ensure they perform as intended during a fire incident.

6. When is it recommended to perform an air test at 25 PSI before introducing water into the system?

- A. When pressure is low**
- B. When water damage is a concern**
- C. When the system is new**
- D. When the system has been repaired**

Performing an air test at 25 PSI before introducing water into a system is particularly recommended when water damage is a concern because this testing method helps identify any leaks or weaknesses in the system that could lead to unintended water release. By conducting an air test, you can ensure the integrity of the components before they are subjected to the pressures and forces associated with water flow. This proactive approach is crucial in minimizing the risk of water damage, which can occur if leaks are present and left undetected prior to filling the system with water. If water damage is a key concern, it highlights the importance of checking for well-sealed joints and fittings, ensuring that there are no gaps that could allow water to escape once the system is operational. Addressing potential issues during the air test phase allows for repairs or adjustments to be made before water is introduced, thereby ensuring a more reliable and safer system operation.

7. What should be open to perform a main drain test correctly?

- A. Main drain valve**
- B. Alarm control valve**
- C. Flow control valve**
- D. Water supply valve**

To perform a main drain test correctly, it is essential to have the alarm control valve open. The main drain test is used to evaluate the flow rate and verify that the system can adequately supply water in the event of an alarm condition. By opening the alarm control valve, you ensure that the system can properly discharge water while checking for flow and assuring that the alarm system functions as intended. This step is critical because it simulates a fire scenario, allowing the system to operate under load and confirm whether the water supply can reach all necessary areas of the designed system. In contrast, although other valves are important for various functions within a water-based system, they do not directly contribute to performing the main drain test itself. The main drain valve is essential for draining purposes but does not provide the necessary operational flow during a test. The flow control valve regulates the amount of water flowing through the system but isn't the primary opening that allows for the testing process during this procedure. Lastly, the water supply valve, while crucial for providing water to the entire system, is typically kept open to ensure flow but isn't specifically manipulated during the main drain test.

8. What is the minimum number of antifreeze samples recommended to be tested?

- A. 1**
- B. 2**
- C. 3**
- D. 4**

The recommendation to test a minimum of two antifreeze samples is based on the need to ensure the efficacy and reliability of the antifreeze solution in fire protection systems. By testing two samples, one can obtain a more accurate assessment of the antifreeze's concentration and performance characteristics. This dual-sampling approach helps identify any inconsistencies or potential issues that may arise with a single sample, ensuring that the antifreeze will provide adequate freeze protection and functionality in varying environmental conditions. Additionally, testing multiple samples allows for cross-verification, enhancing the accuracy of the results. If only one sample were tested, it may not represent the entire system's antifreeze condition, as there can be variations due to mixing or stratification within the system. Therefore, the recommendation for a minimum of two samples is in line with best practices for inspection, testing, and maintenance of fire protection systems.

9. How many years of service must sprinklers be replaced or tested?

- A. 25 years
- B. 50 years**
- C. 10 years
- D. 15 years

Sprinklers must be replaced or tested every 50 years as a standard practice to ensure their continued effectiveness and reliability in fire protection systems. This timeframe is based on the understanding that over time, environmental factors, corrosion, and other conditions can impact the functionality of the sprinkler heads. Regular testing and replacement after 50 years help maintain compliance with safety standards and ensure optimal performance in the event of a fire. This extended duration reflects the durable design and materials used in modern sprinkler systems, which are intended to last for several decades if properly maintained.

10. During pressure testing of a dry pipe system, what is the acceptable psi loss over the duration of the test?

- A. 1 psi
- B. 2 psi
- C. 3 psi**
- D. 5 psi

During pressure testing of a dry pipe system, an acceptable loss of 3 psi over the duration of the test is based on industry standards and practices for ensuring the integrity of the piping system. This acceptable loss is established to account for minor leaks or fluctuations during the testing process while still ensuring that the system maintains enough integrity to function correctly. A loss of 3 psi indicates that the system is still in a reasonable condition, as it typically allows for minor variations without signifying a major leak or failure. Testing beyond this limit could indicate a problem that needs further investigation, such as significant leaks or issues with fittings and joints. Therefore, maintaining a threshold where no more than 3 psi is lost helps to validate the reliability of the dry pipe system and ensure its readiness for operational use. Other limits, such as 1 psi, 2 psi, or 5 psi, do not align with the industry's accepted standards for this type of system testing, thus making 3 psi the correct and most acceptable loss during the pressure testing process.

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://nicetlevel2itmofwaterbasedsystems.examzify.com>

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

SAMPLE