

FDNY COF – FUEL-OIL PIPING AND STORAGE SYSTEM (P-98) PRACTICE TEST (SAMPLE) STUDY GUIDE



Prepare with structure. Pass with confidence



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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. How can improper fuel-oil storage indirectly affect human health?**
 - A. By reducing the quality of stored oil
 - B. Through soil and water contamination
 - C. By creating unpleasant odors
 - D. Through noise pollution
- 2. What is the maximum duration for a temporary permit?**
 - A. 60 days
 - B. 90 days
 - C. 12 months
 - D. 24 months
- 3. When are containers allowed to be stored horizontally?**
 - A. If they are empty
 - B. If they have an internal volume of less than 0.174 SCF
 - C. If they are steel containers
 - D. If they are closed
- 4. What is the restricted maximum amount of flammable gas that can be stored in any building in SCF?**
 - A. 5000
 - B. 10000
 - C. 15000
 - D. 20000
- 5. What percentage of a non-flammable gas mixture with air shows no flammable range at 14.7 PSIA?**
 - A. 8 percent
 - B. 10 percent
 - C. 12 percent
 - D. 15 percent

- 6. Which of the following is a key safety consideration when working with fuel-oil systems?**
- A. Ensuring equipment is ungrounded
 - B. Using open flames near storage tanks
 - C. Proper ventilation in the storage area
 - D. Ignoring odor detection
- 7. Who will appear on the neck ring of a compressed gas cylinder?**
- A. Previous owner
 - B. Current owner
 - C. User
 - D. Manufacturer
- 8. What is the purpose of a fuel oil gauge?**
- A. To monitor the temperature of the fuel
 - B. To measure the fuel oil level in the storage tank
 - C. To detect leaks in the piping system
 - D. To control the flow rate of the fuel
- 9. The transportation of hazardous materials requires compliance with what type of placards?**
- A. EU Compliant placards
 - B. US DOT Compliant placards
 - C. ISO Compliant placards
 - D. Local State placards
- 10. Overnight storage is prohibited with which type of permit?**
- A. Citywide permit
 - B. Temporary permit
 - C. Site-specific permit
 - D. Transfer permit

Answers

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

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Explanations

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1. How can improper fuel-oil storage indirectly affect human health?

- A. By reducing the quality of stored oil
- B. Through soil and water contamination**
- C. By creating unpleasant odors
- D. Through noise pollution

Improper fuel-oil storage can significantly impact human health through soil and water contamination. When fuel oil is stored incorrectly, leaks or spills can occur, leading to hazardous substances infiltrating the surrounding soil and potentially reaching groundwater sources. Contaminated soil can adversely affect plant life, which in turn impacts the food chain. Additionally, if contaminated groundwater is used for drinking or irrigation, it poses serious health risks to humans and animals alike, including exposure to toxic compounds and long-term health issues. Thus, the relationship between improper fuel-oil storage and the contamination of natural resources illustrates a clear pathway by which human health can be indirectly compromised. In contrast, while reducing the quality of stored oil, creating unpleasant odors, and noise pollution can have various environmental and human impacts, they do not directly relate to significant health risks in the same way that soil and water contamination does.

2. What is the maximum duration for a temporary permit?

- A. 60 days
- B. 90 days
- C. 12 months**
- D. 24 months

The maximum duration for a temporary permit, specifically in the context of fuel-oil piping and storage systems, typically aligns with the regulatory frameworks that govern such permits. A temporary permit is generally designed to address short-term needs while ensuring safety and compliance with established codes. In this case, the correct answer indicates that the maximum duration is up to 12 months. This timeframe allows for sufficient oversight and evaluation of the temporary installation or operation. It provides a balance, enabling necessary work to be completed while ensuring that safety and operational standards are maintained. After the 12-month period, a reevaluation of needs, conditions, and compliance may be warranted, leading to either the extension of the permit under updated terms or the transition to a permanent solution. Understanding this context highlights the critical nature of adhering to the maximum duration set by regulations, as it underscores the importance of both time management in project execution and ongoing safety considerations in the handling of fuel-oil systems.

3. When are containers allowed to be stored horizontally?

- A. If they are empty
- B. If they have an internal volume of less than 0.174 SCF**
- C. If they are steel containers
- D. If they are closed

Containers are allowed to be stored horizontally when they have an internal volume of less than 0.174 standard cubic feet (SCF). This specification is important because smaller containers pose less risk when they are stored horizontally compared to larger containers. The regulations typically require that larger containers be stored upright to prevent hazards such as leaks or spills, which can occur if a larger volume of material shifts or if integrity is compromised when on its side. Therefore, the size restriction allows for safe handling and reduces potential risks associated with fuel oils or other types of hazardous materials. In terms of storage practices, ensuring that a container meets this volume threshold contributes to overall safety and compliance with standard operating procedures related to fuel-oil piping and storage systems.

4. What is the restricted maximum amount of flammable gas that can be stored in any building in SCF?

- A. 5000
- B. 10000
- C. 15000**
- D. 20000

The restricted maximum amount of flammable gas that can be stored in any building, according to regulations, is 15,000 SCF (Standard Cubic Feet). This limit is established to ensure safety in buildings by preventing the accumulation of hazardous amounts of flammable gases, which could lead to increased risks of fire or explosion. Storing up to this restricted amount allows for operational flexibility while still adhering to safety protocols and protecting occupants, emergency responders, and surrounding properties. Exceeding this limit would necessitate additional safety measures and compliance with stricter regulations, which are in place to mitigate risks associated with handling and storing flammable materials. Understanding these storage limitations is crucial for compliance with fire safety standards and regulations, ensuring a safe environment within buildings that utilize flammable gases.

5. What percentage of a non-flammable gas mixture with air shows no flammable range at 14.7 PSIA?

- A. 8 percent
- B. 10 percent
- C. 12 percent**
- D. 15 percent

In the context of flammable gases, the flammable range refers to the concentration of a gas in air that can support a flame. A non-flammable gas mixture with air will not ignite, no matter the concentration, if the percentage of the gas is above a certain threshold. For many non-flammable gases, it is established that if the concentration of the gas in the air exceeds approximately 12 percent by volume at 14.7 PSIA (standard atmospheric pressure), the mixture will not have a flammable range. This means that combustion is not possible within that concentration, which is important for safety in environments where gases are present. So, understanding that a non-flammable gas occupies more than this percentage results in non-combustibility is critical for proper safety protocols and regulations regarding gas storage and handling. Thus, knowing that 12 percent is the determining threshold helps ensure compliance with safety standards in various industries.

6. Which of the following is a key safety consideration when working with fuel-oil systems?

- A. Ensuring equipment is ungrounded
- B. Using open flames near storage tanks
- C. Proper ventilation in the storage area**
- D. Ignoring odor detection

Proper ventilation in the storage area is essential for safety when working with fuel-oil systems. Adequate ventilation helps to disperse any potentially harmful vapors or fumes that may accumulate, reducing the risk of explosion or fire. Fuel oils can produce flammable vapors, and in a confined space, these vapors can reach dangerous concentrations. Ventilation minimizes this risk by ensuring a steady flow of fresh air to dilute any hazardous vapors, thus safeguarding both personnel and the surrounding environment. The focus on ventilation is critical in maintaining a safe working environment, especially because fuel oils can present a significant hazard if proper safety measures are not followed. Safe practices in any area where flammable materials are stored or used are vital to preventing accidents and ensuring compliance with safety regulations.

7. Who will appear on the neck ring of a compressed gas cylinder?

- A. Previous owner
- B. Current owner**
- C. User
- D. Manufacturer

The neck ring of a compressed gas cylinder is primarily designed to provide essential identification and safety information. It typically includes the name and address of the manufacturer, which establishes the source and compliance of the cylinder with applicable regulations and standards. However, the current owner of the cylinder also plays a crucial role in this context. The current owner is responsible for the maintenance, inspection, and legal responsibilities regarding the cylinder's use and storage. As a result, it is appropriate that the current owner's details are indicated, ensuring proper accountability and traceability for the cylinder in use. This identification is vital for safety, regulatory compliance, and accountability during the lifecycle of the cylinder in various industrial and commercial settings.

8. What is the purpose of a fuel oil gauge?

- A. To monitor the temperature of the fuel
- B. To measure the fuel oil level in the storage tank**
- C. To detect leaks in the piping system
- D. To control the flow rate of the fuel

The purpose of a fuel oil gauge is to measure the fuel oil level in the storage tank. This measurement is crucial for several reasons; it allows for the monitoring of fuel reserves, helping to prevent running low or out of fuel, which could lead to operational issues. Additionally, knowing the fuel level aids in scheduling refills, ensuring that the system operates efficiently and effectively. While monitoring temperature, detecting leaks, or controlling flow rates are important aspects of a fuel oil system, they are not the primary purpose of a fuel oil gauge. A gauge specifically serves to provide visual or digital information on how much fuel is present, which is essential for managing fuel resources and maintaining continuous operation.

9. The transportation of hazardous materials requires compliance with what type of placards?

- A. EU Compliant placards
- B. US DOT Compliant placards**
- C. ISO Compliant placards
- D. Local State placards

The correct focus for the transportation of hazardous materials is on US DOT Compliant placards. The United States Department of Transportation (DOT) has established specific regulations for the identification and regulation of hazardous materials in transportation, including the use of standardized placards. These placards communicate important safety information regarding the nature of the hazardous material being transported, such as flammability, toxicity, or other hazardous properties. Using US DOT Compliant placards is crucial, as they ensure consistency and recognition across the transportation industry within the United States. This compliance helps in protecting the public and emergency responders by providing clear and immediate information about the risks associated with the materials being transported. Other options may pertain to various regulatory frameworks or standards applicable in different contexts but do not specifically address the requirements for hazardous material transport in the U.S. Therefore, the emphasis on US DOT Compliant placards is fundamental when discussing regulations related to hazardous materials in transportation, ensuring safety and legal compliance within the industry.

10. Overnight storage is prohibited with which type of permit?

- A. Citywide permit**
- B. Temporary permit**
- C. Site-specific permit**
- D. Transfer permit**

Overnight storage is specifically prohibited with a citywide permit due to the regulations established to manage and minimize risks associated with fuel oil handling in urban settings. Citywide permits are issued for operations that have broader implications and are subject to stricter oversight, including protocols regarding storage methods and locations to ensure public safety and environmental protection. In this context, the prohibition on overnight storage helps mitigate the risk of leaks or spills that could occur due to equipment failures or environmental factors, as citywide operations often involve larger quantities of fuel oil and are conducted in densely populated areas. This regulation ensures that any potential hazards are managed within controlled operational hours, reducing the likelihood of incidents that could adversely impact public health and safety. Other types of permits, such as temporary, site-specific, or transfer permits, do not necessarily impose the same restrictions concerning overnight storage, allowing for more flexible operations tailored to specific circumstances while still adhering to regulatory compliance. This distinction emphasizes the heightened responsibility associated with citywide permits.

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://fdnyp98.examzify.com>

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

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