

FDNY CoF - Use of LPG or CNG in Engine Fuel Systems (G-22) 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

- 1. What is the maximum travel distance to a fire extinguisher from any work location?**
 - A. 20 feet**
 - B. 30 feet**
 - C. 40 feet**
 - D. 50 feet**
- 2. What should LPG and CNG containers be kept away from besides sources of ignition?**
 - A. Corrosives**
 - B. Soft surfaces**
 - C. Water sources**
 - D. Room temperature**
- 3. What is the primary component used for pressure regulation in LPG systems?**
 - A. A pressure regulator**
 - B. A flow meter**
 - C. A throttle body**
 - D. A safety valve**
- 4. What system protects CNG tanks from overpressure in case of fire?**
 - A. Emergency release valves**
 - B. Overpressure relief valves**
 - C. Fire suppression systems built into the design of the tank**
 - D. Cooling systems**
- 5. What does "ODP" refer to in the context of LPG?**
 - A. Outside Diameter of Pipe**
 - B. Overall Diameter of Pipe**
 - C. Outer Diameter Pressure**
 - D. Operational Diameter of Pipeline**

- 6. Which of the following practices can enhance safety when working with LPG or CNG?**
- A. Regular training and emergency drills**
 - B. Using manual start systems**
 - C. Minimizing the use of personal protective equipment**
 - D. Working alone in a controlled environment**
- 7. How often should inspections of LPG and CNG systems be performed?**
- A. Only when a problem is suspected**
 - B. Daily during operations**
 - C. As per manufacturer recommendations and regulatory guidelines**
 - D. Once a year**
- 8. How far must heaters used for curing and drying be located from LPG containers?**
- A. 3 feet**
 - B. 6 feet**
 - C. 10 feet**
 - D. 12 feet**
- 9. What safety measure should be in place when operating LPG systems?**
- A. Adequate training for all personnel**
 - B. Regular inspections of containers**
 - C. Both A and B**
 - D. N/A**
- 10. Why is training essential for operators of LPG and CNG systems?**
- A. To ensure safety and compliance with regulations.**
 - B. To enhance fuel efficiency.**
 - C. To improve maintenance procedures.**
 - D. To decrease operational costs.**

Answers

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

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Explanations

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1. What is the maximum travel distance to a fire extinguisher from any work location?

- A. 20 feet**
- B. 30 feet**
- C. 40 feet**
- D. 50 feet**

The maximum travel distance to a fire extinguisher from any work location is established as 30 feet. This standard is set to ensure that extinguishers are readily accessible in case of a fire emergency, allowing individuals to reach them quickly without delay. The rationale behind this distance is based on safety protocols that aim to minimize the risk of injury and maximize the chance of effectively combating small fires before they escalate. Having extinguishers placed within this range ensures that employees or occupants can respond promptly, enhancing overall safety in the workplace. In various settings, including industrial and commercial environments, adherence to this guideline is essential for compliance with fire safety regulations and the protection of personnel and property.

2. What should LPG and CNG containers be kept away from besides sources of ignition?

- A. Corrosives**
- B. Soft surfaces**
- C. Water sources**
- D. Room temperature**

LPG (liquefied petroleum gas) and CNG (compressed natural gas) containers should indeed be kept away from corrosive substances. Corrosives can damage the structural integrity of the containers, leading to potential leaks or failures. This can pose significant safety hazards since both LPG and CNG are flammable gases. Additionally, exposure to corrosive materials may compromise the safety features designed to contain these gases, requiring stringent measures to avoid any contact. Maintaining a safe distance from corrosives helps ensure that the containers remain in good condition, thereby reducing the risk of accidental release of gas that could lead to fire or explosion.

3. What is the primary component used for pressure regulation in LPG systems?

A. A pressure regulator

B. A flow meter

C. A throttle body

D. A safety valve

The primary component used for pressure regulation in LPG systems is a pressure regulator. This device is essential for controlling the pressure of the LPG as it is delivered from the storage tank to the engine or appliance. The regulator ensures that the pressure remains within the optimal range for combustion, providing a consistent flow of fuel. This is crucial because if the pressure is too high, it could lead to safety hazards, including leaks or explosions. Conversely, if the pressure is too low, it can result in poor engine performance and efficiency. The pressure regulator adjusts and maintains the appropriate pressure by reducing the high pressure from the tank to a usable level while compensating for variations in demand from the engine. Other components, such as flow meters, throttle bodies, and safety valves, play different roles in LPG systems. Flow meters measure the amount of gas passing through the system, throttle bodies control the air-fuel mixture entering the engine, and safety valves provide essential protection by releasing gas if the pressure exceeds safe limits. However, none of these components regulate pressure in the same way that a pressure regulator does.

4. What system protects CNG tanks from overpressure in case of fire?

A. Emergency release valves

B. Overpressure relief valves

C. Fire suppression systems built into the design of the tank

D. Cooling systems

The system designed to protect CNG tanks from overpressure in the event of a fire is the overpressure relief valves. These valves play a critical role in maintaining safety by releasing gas to prevent the tank from bursting due to increased pressure caused by the heat of a fire. While fire suppression systems can help to control and extinguish fires, they do not specifically address the risk of overpressure that may result from elevated temperatures affecting the gas inside the tanks. Emergency release valves and cooling systems are also important for overall safety but serve different functions in the context of tank protection. In summary, the overpressure relief valves are essential for mitigating risks associated with thermal expansion of gases in CNG tanks during a fire situation.

5. What does "ODP" refer to in the context of LPG?

- A. Outside Diameter of Pipe**
- B. Overall Diameter of Pipe**
- C. Outer Diameter Pressure**
- D. Operational Diameter of Pipeline**

In the context of LPG, "ODP" refers to the "Outside Diameter of Pipe." This term is significant in the installation and maintenance of piping systems used for transporting LPG, as knowing the outside diameter is crucial for ensuring compatibility with fittings, valves, and other components in the pipeline system. The outside diameter is also important for determining the pipe's structural integrity and its ability to withstand the pressures involved in LPG systems. This measurement helps in adhering to safety regulations and ensuring that the installation meets industry standards.

6. Which of the following practices can enhance safety when working with LPG or CNG?

- A. Regular training and emergency drills**
- B. Using manual start systems**
- C. Minimizing the use of personal protective equipment**
- D. Working alone in a controlled environment**

Regular training and emergency drills are critical practices that can significantly enhance safety when working with Liquefied Petroleum Gas (LPG) or Compressed Natural Gas (CNG). These practices ensure that individuals are familiar with the hazards associated with these gases and know how to respond effectively in emergency situations. Routine training helps reinforce knowledge about safe handling, proper use of equipment, and emergency protocols, which can prevent accidents and mitigate the effects of any incidents that may occur. Emergency drills create a realistic environment where personnel can practice their response to potential emergencies, improving their readiness and confidence. This hands-on experience is vital in reinforcing safety habits and procedures, facilitating quick and efficient actions in a crisis. By integrating regular training and emergency exercises into the operational routine, workers are better equipped to recognize unsafe conditions and act decisively, which is crucial in maintaining safety when dealing with LPG or CNG. Other practices, such as using manual start systems or minimizing personal protective equipment, do not necessarily enhance safety and can potentially create risks. Working alone in a controlled environment also undermines safety, as having colleagues present can provide support and additional oversight in case of an emergency.

7. How often should inspections of LPG and CNG systems be performed?

A. Only when a problem is suspected

B. Daily during operations

C. As per manufacturer recommendations and regulatory guidelines

D. Once a year

Inspections of LPG and CNG systems should be performed as per manufacturer recommendations and regulatory guidelines. This approach ensures that the systems are regularly checked for safety and efficiency while adhering to the specific standards set forth by manufacturers and regulatory bodies. These guidelines often include critical checks for leaks, wear, and functionality, which are essential for the safe operation of LPG and CNG fueled systems. Following this routine not only helps in identifying potential issues before they become serious problems but also ensures compliance with safety regulations that govern these systems. Manufacturers typically provide detailed maintenance schedules that consider the type of system, its usage, and environmental factors, which help operators to maintain their systems effectively and responsibly. While daily inspections during operations can be beneficial in noticing immediate issues, they may not cover all aspects of a thorough inspection required for long-term safety and maintenance. Similarly, limiting inspections to only when problems are suspected or once a year would not provide a consistent level of oversight needed for safe operation. Therefore, adhering to manufacturer and regulatory inspection recommendations is the most reliable practice for maintaining LPG and CNG systems.

8. How far must heaters used for curing and drying be located from LPG containers?

A. 3 feet

B. 6 feet

C. 10 feet

D. 12 feet

The correct distance that heaters used for curing and drying must be located from LPG containers is 6 feet. This requirement is in place to minimize the risk of heat potentially affecting the integrity of the LPG containers, which could lead to hazardous situations such as leaks or explosions. Heaters generate significant amounts of heat, and positioning them too close to LPG storage could elevate the temperature of the containers beyond safe limits. By adhering to the 6-foot distance guideline, you create a safer working environment and reduce the likelihood of accidents related to the handling and storage of LPG.

9. What safety measure should be in place when operating LPG systems?

- A. Adequate training for all personnel**
- B. Regular inspections of containers**
- C. Both A and B**
- D. N/A**

Implementing both adequate training for all personnel and regular inspections of containers is crucial for the safe operation of LPG systems. Adequate training ensures that all operators and personnel are knowledgeable about the properties of LPG, the potential hazards associated with its use, and the emergency procedures to follow in case of an incident. This training allows them to respond effectively to any issues that may arise and promotes a culture of safety. Regular inspections of containers are equally important, as they help identify any wear, damage, or potential leaks before they pose a risk. Inspections ensure that containers are maintained in good condition and comply with safety standards, which is critical for preventing accidents and ensuring the integrity of the system. Together, these measures create a comprehensive approach to safety, significantly reducing the risk of incidents when operating LPG systems.

10. Why is training essential for operators of LPG and CNG systems?

- A. To ensure safety and compliance with regulations.**
- B. To enhance fuel efficiency.**
- C. To improve maintenance procedures.**
- D. To decrease operational costs.**

Training is essential for operators of LPG and CNG systems primarily to ensure safety and compliance with regulations. LPG (liquefied petroleum gas) and CNG (compressed natural gas) are both highly flammable materials that require careful handling and operation to prevent accidents such as fires or explosions. Proper training equips operators with the knowledge of safety protocols and emergency procedures, enabling them to respond appropriately to any incidents that may arise. Moreover, regulations governing the use of these fuel systems are often strict, requiring operators to be well-versed in legal requirements and standards. This compliance not only helps to maintain safety but also mitigates the legal and financial repercussions that might arise from non-compliance. Understanding the specific regulations surrounding LPG and CNG fuel systems ensures that operators adhere to best practices, thus promoting a safe working environment. While enhancing fuel efficiency, improving maintenance procedures, and decreasing operational costs are all beneficial outcomes of effective training, they are secondary to the fundamental necessity of safety and regulatory compliance in the operation of LPG and CNG systems.

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://fdnyg22.examzify.com>

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