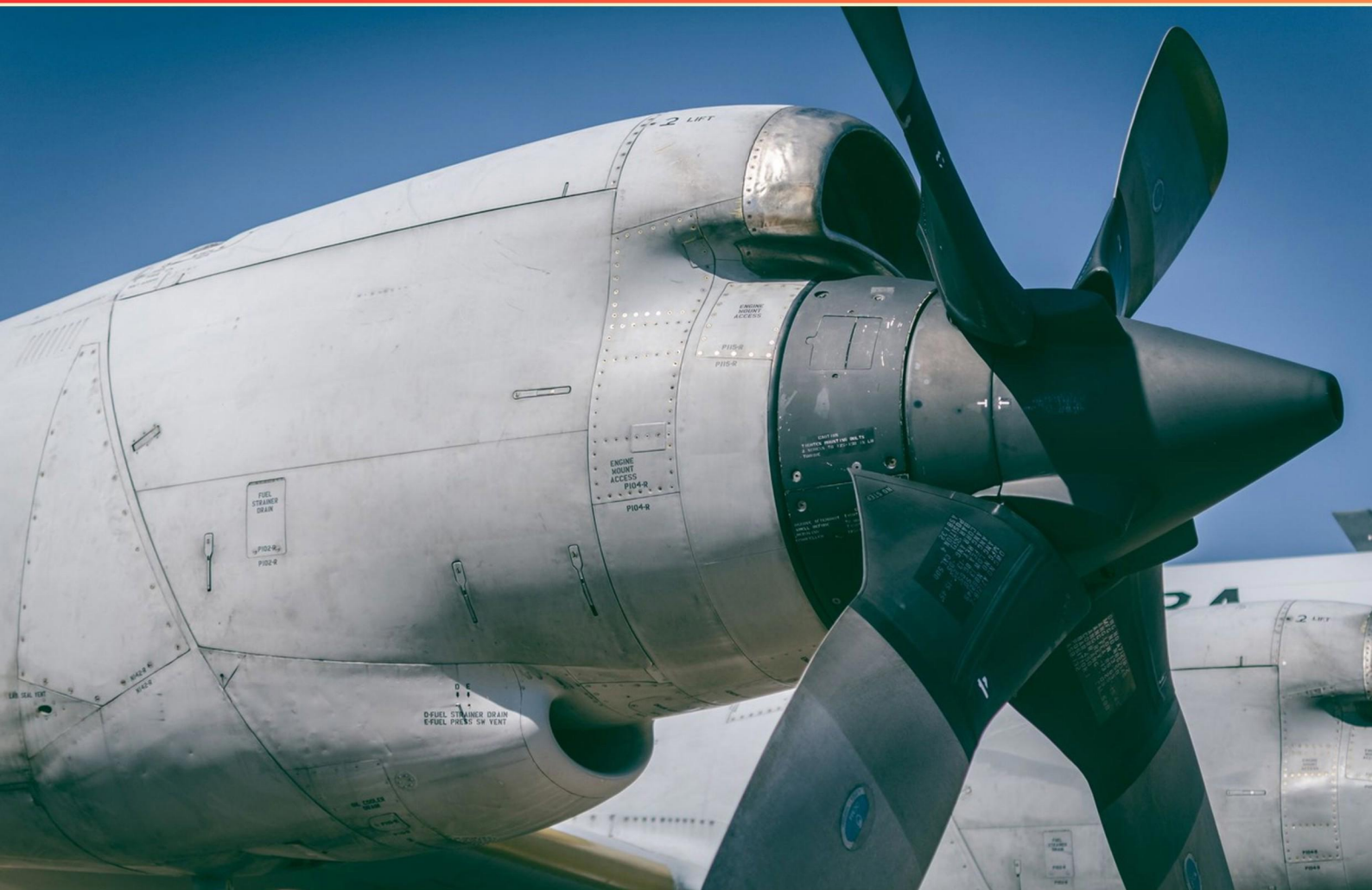


WATER AND FUEL SYSTEMS MAINTENANCE (WFSM) SET B VOLUME 2 PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

<https://wfsmsetbvol2.examzify.com>



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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. If you change the Brodie coarse adjustment one position, what change is made to the register reading?**
 - A. 3.6 gal per 100 gal
 - B. 6 gal per 100 gal
 - C. 3.6 per 1000 gal
 - D. 6 per 1000 gal
- 2. What potential issue can arise from using improper fuel types in a system?**
 - A. Increased fuel efficiency
 - B. Reduced engine performance
 - C. Extended equipment durability
 - D. Improved combustion quality
- 3. What safety measure should be taken when working with fuel systems?**
 - A. Always wear gloves
 - B. Never use tools
 - C. Allow open flames
 - D. Use defective equipment
- 4. Tank truck unloading headers will be spaced about how many feet apart?**
 - A. 40
 - B. 60
 - C. 80
 - D. 100
- 5. What is the inspection frequency for a pressure relief valve?**
 - A. A) monthly
 - B. B) quarterly
 - C. C) semiannually
 - D. D) annually

- 6. What maintenance step is critical before starting any work on a water system?**
- A. Isolating and draining the system to ensure safety
 - B. Increasing water flow to clear obstructions
 - C. Testing water quality for contaminants
 - D. Checking levels of chemicals in the system
- 7. During which condition should a pressure gauge reading be taken to assess the regulator's performance while dispensing?**
- A. With the nozzle closed
 - B. With the nozzle open
 - C. When the pump is off
 - D. After a complete delivery
- 8. Which instrument is used to check the liquidometer accuracy?**
- A. Tape and bob
 - B. Liquid level float
 - C. Liquid level gauge
 - D. Weighted gauge tester
- 9. If the fuel discharge valve fails to open, what should you check first?**
- A. Main valve diaphragm
 - B. Pilot valve assembly
 - C. Three way valve diaphragm
 - D. Water in the filter separator sump
- 10. When can people cleaning Air Force petroleum storage tanks use portable oxygen tanks and masks?**
- A. During immediately dangerous to life and health conditions
 - B. During inert tank cleaning
 - C. During hot cleaning
 - D. Never

Answers

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

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Explanations

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1. If you change the Brodie coarse adjustment one position, what change is made to the register reading?

- A. 3.6 gal per 100 gal
- B. 6 gal per 100 gal
- C. 3.6 per 1000 gal
- D. 6 per 1000 gal**

When adjusting the Brodie coarse adjustment, the intention is to calibrate the system for accurate measurement of fluid flow. The correct answer indicates that changing the adjustment one position alters the register reading by 6 units for every 1000 gallons. This value is crucial for ensuring that the register reflects the appropriate flow rate as determined by the calibration settings. A change of 6 per 1000 gallons allows for fine-tuning of the measurement output to align with expected operational parameters. In practical terms, this means that for every 1,000 gallons that pass through the registering system, making this adjustment one position results in a registered flow reading that reflects a nuanced change – vital for accurate record-keeping and operational efficiency. Other provided answers reflect changes at different scales or with different volumes, which do not align with the specific outcome of the coarse adjustment mentioned in the question. Thus, the accurate understanding and application of the Brodie adjustment is essential for precision in fuel and water systems maintenance.

2. What potential issue can arise from using improper fuel types in a system?

- A. Increased fuel efficiency
- B. Reduced engine performance**
- C. Extended equipment durability
- D. Improved combustion quality

Using improper fuel types in a system can lead to reduced engine performance because each engine is designed to operate with a specific fuel type that has certain characteristics like octane rating, viscosity, and chemical composition. When an engine is fueled with a type that does not match these specifications, it can cause incomplete combustion, leading to issues such as knocking, increased emissions, and potentially overheating. This can result in decreased power output and overall efficiency, hampering the engine's ability to perform optimally. Therefore, selecting the correct fuel type is crucial for maintaining engine performance and ensuring it operates within the intended parameters.

3. What safety measure should be taken when working with fuel systems?

- A. Always wear gloves**
- B. Never use tools
- C. Allow open flames
- D. Use defective equipment

Wearing gloves when working with fuel systems is a crucial safety measure because it provides a barrier between your skin and potentially harmful substances such as fuel or chemicals. Gloves can protect against skin irritations, chemical burns, and absorption of harmful substances that may occur if fuel comes into contact with the skin. This precaution is particularly important given that fuels can contain toxic components, and prolonged exposure can pose health risks. In contrast to the other options, using tools is essential for safely working on fuel systems when used properly, open flames are a significant fire hazard in an environment with flammable substances, and using defective equipment increases the risk of accidents and injuries. Thus, wearing gloves is the correct safety measure that significantly contributes to personal safety in the context of fuel systems.

4. Tank truck unloading headers will be spaced about how many feet apart?

- A. 40
- B. 60**
- C. 80
- D. 100

The correct choice regarding the spacing of tank truck unloading headers is based on standard practices for ensuring safety and operational efficiency. Spacing the unloading headers approximately 60 feet apart is designed to minimize the risk of spills or cross-contamination between different types of fuel or other liquids being unloaded. This specific spacing allows for adequate maneuverability of the tank trucks during the unloading process, providing enough distance for workers to operate safely without being in close proximity to potential hazards. Such spacing is considered effective in preventing accidental mixing of incompatible materials during transfers, which is critical in both ensuring safety and preserving the quality of the substances being handled. In contrast, spacing options that are significantly greater or lesser, such as 40, 80, or 100 feet, may not align with industry best practices in fuel handling safety, effectiveness of operations, or local regulations regarding the placement of such equipment.

5. What is the inspection frequency for a pressure relief valve?

- A. A) monthly
- B. B) quarterly
- C. C) semiannually
- D. D) annually**

The inspection frequency for a pressure relief valve is annually. This schedule ensures that the valves are regularly assessed for proper functioning, safety, and compliance with standard operating procedures. Annual inspections are critical because they allow for a comprehensive evaluation of the valve's condition, ensuring it is capable of performing its intended function without fail. Regular inspections also assist in identifying any wear or malfunctions that could lead to catastrophic failures if left unchecked. This annual approach aligns with best practices in operational safety and maintenance planning, as it balances the need for diligent oversight while managing the frequency based on system demands and regulatory requirements. In contrast, shorter inspection intervals like monthly, quarterly, or semiannually are typically reserved for more critical or high-use components rather than pressure relief valves, which generally don't require as frequent evaluations under standard conditions.

6. What maintenance step is critical before starting any work on a water system?

- A. Isolating and draining the system to ensure safety**
- B. Increasing water flow to clear obstructions
- C. Testing water quality for contaminants
- D. Checking levels of chemicals in the system

Isolating and draining the system before starting any work on a water system is a critical maintenance step because it ensures the safety of personnel and prevents potential hazards. When working on water systems, there is a risk of exposure to pressurized water, which can lead to serious injuries. By isolating the system, you effectively eliminate the water pressure and any associated risks, ensuring that the environment is safe for maintenance activities. Draining the system further ensures that there is no standing water, which can cause issues such as flooding, contamination, and difficulties when accessing various components. This step is a fundamental safety protocol in many maintenance practices, emphasizing the importance of safeguarding both the workers and the infrastructure involved in the water system.

7. During which condition should a pressure gauge reading be taken to assess the regulator's performance while dispensing?

- A. With the nozzle closed
- B. With the nozzle open**
- C. When the pump is off
- D. After a complete delivery

Taking a pressure gauge reading with the nozzle open is crucial for assessing a regulator's performance during dispensing. This condition accurately simulates the actual operating scenario where fuel or water is being dispensed, allowing for a reliable measurement of pressure that reflects the system's real-time performance under load. When the nozzle is open, the regulator is actively responding to the demand created by the flow of fluid. This enables you to observe how well the regulator maintains the necessary pressure as per its design specifications. An accurate pressure reading while the nozzle is in use is essential for identifying any potential issues with the regulator, such as improper functioning, potential blockages, or fluctuations that could affect dispensing efficiency. In contrast, taking a reading while the nozzle is closed would not provide relevant data about the regulator's performance under operational stress, as there would be no flow to indicate how the system is handling pressure. Similarly, measuring when the pump is off or after a complete delivery does not reflect the performance during active dispensing, making those options less useful for evaluating the regulator's effectiveness in real-time conditions.

8. Which instrument is used to check the liquidometer accuracy?

- A. Tape and bob**
- B. Liquid level float
- C. Liquid level gauge
- D. Weighted gauge tester

The weighted gauge tester is the correct instrument used to check the accuracy of a liquidometer. This device operates by verifying the readings of the liquidometer against a known standard. A weighted gauge tester typically involves a weight attached to a measuring tape, which is submerged in the liquid to determine the true level of the liquid versus what the liquidometer indicates. This process helps in identifying any discrepancies in the liquidometer's reading, ensuring that it is providing precise measurements for maintaining fuel or water levels. Using a tape and bob, while potentially useful for measuring depths or levels manually, does not specifically test the accuracy of the liquidometer itself, and a liquid level gauge generally refers to the device being evaluated, rather than a tool for checking its accuracy. Similarly, a liquid level float might be part of the liquidometer system but does not serve the purpose of testing the liquidometer's accuracy directly. Thus, the weighted gauge tester is the optimal choice for this task.

9. If the fuel discharge valve fails to open, what should you check first?

- A. Main valve diaphragm
- B. Pilot valve assembly
- C. Three way valve diaphragm
- D. Water in the filter separator sump**

When troubleshooting a fuel discharge valve that fails to open, the first step is to check for water in the filter separator sump. Water accumulation can indicate a problem with the fuel system, potentially causing the discharge valve to fail due to contamination. If water is present, it may have affected the fuel's properties or may have blocked fuel flow, preventing the valve from opening as required. By starting with an examination of the filter separator sump, you address a key factor that can impact the entire fuel system's performance. Identifying and resolving water issues early helps prevent further complications and ensures a more thorough approach to troubleshooting. This foundational step is crucial because water in the fuel can lead to more significant operational issues and system failures if not addressed promptly.

10. When can people cleaning Air Force petroleum storage tanks use portable oxygen tanks and masks?

- A. During immediately dangerous to life and health conditions
- B. During inert tank cleaning
- C. During hot cleaning
- D. Never**

In the context of cleaning petroleum storage tanks, safety is the top priority due to the potential for hazardous atmospheres, such as those containing flammable vapors or toxic gases. The use of portable oxygen tanks and masks is generally avoided because these items can create additional risks, specifically in an environment that may be enriched with flammable vapors. While specific scenarios may allow for the use of respiratory protection in certain tasks, such as when there are defined safe conditions or when working in an inert environment, the strict guideline is that personnel should not use portable oxygen tanks and masks during tank cleaning operations. This policy exists to minimize the risk of ignition from the equipment itself, as well as to prevent the introduction of additional hazards. Inert tank cleaning typically implies that the tank has been purged of hazardous conditions, and hot cleaning involves high temperatures that could ignite flammable vapors. Thus, these methods require adherence to strict safety protocols that typically do not allow the introduction of portable oxygen tanks and masks. The safest and most prudent approach is to never use them in such contexts.

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:

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

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