

SDI FIREARMS INSPECTION AND TROUBLESHOOTING PRACTICE EXAM (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE**

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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. When diagnosing feeding issues, which assembly should first be inspected in a lever action firearm?**
 - A. Ejector assembly
 - B. Feeding assembly
 - C. Loading assembly
 - D. Action assembly
- 2. What is the major difference between hammer fired and striker fired designs?**
 - A. Hammer is attached to the frame, Striker moves with the slide
 - B. Striker is external, Hammer is internal
 - C. Hammer is used for double action only
 - D. Striker requires a manual safety to operate
- 3. On a lever-delayed blowback firearm, what is the shorter arm also referred to as?**
 - A. Effort arm
 - B. Reaction arm
 - C. Torque arm
 - D. Support arm
- 4. What design feature helps a controlled feed bolt action rifle operate more smoothly?**
 - A. Smoother Trigger Pull
 - B. Extractor Hook Interaction
 - C. Simplified Loading Mechanism
 - D. Reduced Ejection Force
- 5. The lever action design relies upon the timing of which assembly for proper function?**
 - A. Loading Arm
 - B. Extractor
 - C. Trigger Mechanism
 - D. Safety Release

- 6. What function does the heat stop serve in a firearm?**
- A. Cooling the Magazine
 - B. Protecting the Bolt's Temper
 - C. Improving Ejection Speed
 - D. Reducing Firing Pin Bounce
- 7. What happens when headspacing a cartridge with the extractor installed?**
- A. The measurement reads correctly off the breech face
 - B. The measurement reads off the extractor
 - C. The cartridge cannot be chambered
 - D. The extractor must be removed first
- 8. What can wear out and lead to firing failures in a gas-operated firearm?**
- A. Hammers
 - B. Recoil Springs
 - C. Firing Pin
 - D. Gas Rings
- 9. Which malfunction describes a pump action failing to hold the next round?**
- A. Failure to Feed
 - B. Failure to Extract
 - C. Short Stroke
 - D. Failure to Fire
- 10. What is the primary role of the magazine in a gas-operated firearm?**
- A. To stabilize the firearm
 - B. To store cartridges
 - C. To house the trigger mechanism
 - D. To guide the bolt

Answers

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

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Explanations

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1. When diagnosing feeding issues, which assembly should first be inspected in a lever action firearm?

- A. Ejector assembly
- B. Feeding assembly**
- C. Loading assembly
- D. Action assembly

In diagnosing feeding issues in a lever action firearm, the feeding assembly is the most critical component to inspect first. The feeding assembly is responsible for the proper movement and positioning of ammunition from the magazine tube into the chamber as the lever is operated. If there is a malfunction in this assembly, it can result in failure to feed, misalignment, or jamming, all of which directly affect the firearm's ability to cycle new cartridges successfully. By starting with the feeding assembly, you can identify common problems such as insufficient spring tension, obstructions, or misaligned parts that might prevent smooth operation. Addressing these issues promptly can help restore functionality before moving on to inspect other assemblies, such as the ejector, loading, or action assemblies, which may also contribute to feeding problems but are not the primary cause in many cases.

2. What is the major difference between hammer fired and striker fired designs?

- A. Hammer is attached to the frame, Striker moves with the slide**
- B. Striker is external, Hammer is internal
- C. Hammer is used for double action only
- D. Striker requires a manual safety to operate

The major difference between hammer fired and striker fired designs lies in the mechanical operation of the firing mechanism. In hammer fired designs, the hammer is a distinct component that is typically attached to the frame of the firearm. When the trigger is pulled, the hammer is cocked and then released to strike the firing pin, discharging the cartridge. This allows for a more pronounced and tactile firing action. In contrast, in striker fired designs, the striker acts as the firing mechanism and is an integral part of the bolt or slide assembly. The striker is pre-tensioned within the slide, and when the trigger is pulled, it releases the striker to hit the firing pin and ignite the cartridge. This leads to a different feel and operational method when firing the weapon. This distinction impacts various factors such as trigger pull, reliability, and the overall design of the firearm. Recognizing this difference is crucial for properly maintaining, inspecting, and troubleshooting each type of firearm. By knowing that the hammer is fixed on the frame while the striker moves with the slide, one can better understand the operational mechanics of these firearms and how they interact during shooting.

3. On a lever-delayed blowback firearm, what is the shorter arm also referred to as?

- A. Effort arm**
- B. Reaction arm
- C. Torque arm
- D. Support arm

In the context of a lever-delayed blowback firearm, the shorter arm is referred to as the effort arm. This terminology is derived from the principles of lever mechanics, where the effort arm is the portion of the lever that is acted upon to amplify the force applied to it. In firearms that utilize a lever mechanism, understanding the configuration of the effort arm is crucial, as it directly impacts how the firearm cycles and operates. By identifying the shorter arm as the effort arm, one can appreciate how force is transferred and transformed through the lever system to manage the blowback effect during firing. This relationship is vital for the design and functioning of lever-delayed systems, as the control over recoil and the timing of the bolt's movement are enhanced by the properties of the effort arm in that specific mechanical setup.

4. What design feature helps a controlled feed bolt action rifle operate more smoothly?

- A. Smoother Trigger Pull
- B. Extractor Hook Interaction**
- C. Simplified Loading Mechanism
- D. Reduced Ejection Force

The design feature that contributes to the smooth operation of a controlled feed bolt action rifle is the extractor hook interaction. In controlled feed systems, the extractor plays a crucial role in securely grasping the cartridge during the feeding process, ensuring that the cartridge is properly aligned and fed into the chamber. This interaction helps to minimize the risk of feeding failures or jamming, which can occur if a cartridge is improperly positioned. A well-designed extractor allows for more reliable engagement with the cartridge rim, facilitating a seamless transition from the magazine to the chamber. This smooth operation is vital for maintaining the rifle's reliability, especially when cycling through multiple rounds quickly. Furthermore, the controlled feed system is designed to ensure that the cartridge is fully captured and controlled throughout the feeding process, which enhances overall performance, especially in adverse conditions. The other choices do cover aspects of rifle operation, but they do not specifically address how the extractor interacts with the cartridge in a controlled feed mechanism. For instance, while a smoother trigger pull can enhance shooting comfort and precision, it does not directly influence the feeding process. Similarly, a simplified loading mechanism or reduced ejection force might contribute to usability but don't necessarily ensure the smooth operation of feeding as the extractor hook interaction does.

5. The lever action design relies upon the timing of which assembly for proper function?

- A. Loading Arm**
- B. Extractor
- C. Trigger Mechanism
- D. Safety Release

The lever action design primarily relies on the loading arm assembly for its proper function. This assembly is crucial because it facilitates the cycling of the firearm, allowing cartridges to be fed into the chamber after the lever is activated. When the lever is pulled down, the loading arm moves, which not only extracts the spent cartridge from the chamber but also positions a new cartridge from the magazine into the chamber ready for firing. This timing and coordination are essential to ensure that the firearm operates smoothly and reliably. In contrast, the extractor's role is limited to removing the spent cartridge case from the chamber after firing, and the trigger mechanism is responsible for firing the round once the firearm is ready. The safety release is designed to prevent accidental discharges and does not play a direct role in the loading or cycling process. Therefore, the correct identification of the loading arm assembly underscores its critical function in the timing and operation of lever action firearms.

6. What function does the heat stop serve in a firearm?

- A. Cooling the Magazine
- B. Protecting the Bolt's Temper**
- C. Improving Ejection Speed
- D. Reducing Firing Pin Bounce

The heat stop serves the important function of protecting the bolt's temper. In firearms, the bolt is a critical component that must maintain its structural integrity even when exposed to high temperatures generated during firing. As the firearm is used, the heat generated can alter the properties of the metal, potentially leading to issues such as warping or weakening of the bolt. A heat stop acts as a thermal barrier, helping to dissipate heat and thus safeguarding the temper of the bolt material. This preservation of the bolt's characteristics is essential for reliable functioning and safety in firearms operation. Understanding this role highlights the importance of thermal management in firearm design, ensuring that components can withstand the stresses of repeated firing without degrading in performance or safety.

7. What happens when headspacing a cartridge with the extractor installed?

- A. The measurement reads correctly off the breech face
- B. The measurement reads off the extractor**
- C. The cartridge cannot be chambered
- D. The extractor must be removed first

When headspacing a cartridge with the extractor installed, the measurement reads off the extractor. This is because the extractor can alter the way the cartridge positions itself in relation to the chamber. When you take the headspace measurement with the extractor in place, the part of the cartridge that makes contact with the bolt face is pushed outward slightly by the extractor. This can lead to an inaccurate measurement since the cartridge may not sit fully flush against the breech face. In headspacing, the ideal scenario is to ensure that the cartridge is accurately seated in the chamber, which is best done without any components that could influence its position, such as the extractor. Thus, for precise headspace measurements, the extractor's presence complicates the reading. Removing the extractor before headspacing ensures that the cartridge can be properly measured based solely on its contact with the breech face, giving a true representation of the chamber's dimensions relative to the cartridge.

8. What can wear out and lead to firing failures in a gas-operated firearm?

- A. Hammers
- B. Recoil Springs
- C. Firing Pin
- D. Gas Rings**

In a gas-operated firearm, gas rings play a crucial role in the functioning of the action. Gas rings seal the gas system, allowing gases from the fired cartridge to cycle back and operate the action successfully. Over time and with repeated use, these gas rings can wear out, resulting in a compromised seal. This wear can lead to gas leakage, which means insufficient pressure is generated to cycle the action properly. If the action does not cycle, it can cause various firing failures such as failure to eject or failure to feed. The significance of the gas rings in maintaining the proper functioning of the gas system is what makes them a critical component at risk of wearing out and affecting the firearm's reliability. Their degradation directly impacts the firearm's ability to operate as intended, hence leading to potential failures during firing.

9. Which malfunction describes a pump action failing to hold the next round?

- A. Failure to Feed**
- B. Failure to Extract
- C. Short Stroke
- D. Failure to Fire

The malfunction that describes a pump-action shotgun failing to hold the next round is best identified as a "Short Stroke." In the context of pump-action firearms, a "Short Stroke" occurs when the shooter does not fully operate the action of the pump, resulting in the bolt not moving completely back or forward. This incomplete motion prevents the next round from being fed into the chamber properly. Understanding this malfunction is crucial because it typically arises from user error rather than a mechanical failure. It emphasizes the importance of fully cycling the action for reliable function, especially in high-stakes situations where every shot counts. Recognizing a "Short Stroke" is vital for troubleshooting and improving a shooter's technique to ensure consistent and reliable operation of the firearm.

10. What is the primary role of the magazine in a gas-operated firearm?

- A. To stabilize the firearm
- B. To store cartridges**
- C. To house the trigger mechanism
- D. To guide the bolt

The primary role of the magazine in a gas-operated firearm is to store cartridges. The magazine serves as a receptacle for ammunition, holding multiple rounds that are fed into the chamber for firing. This allows for subsequent shots to be fired quickly without the need to manually reload after each shot, facilitating a higher rate of fire. In gas-operated firearms, where the operation depends on gas pressure from fired cartridges, the magazine plays an essential part in ensuring the availability of cartridges for semi-automatic or automatic firing. Other functions related to the firearm's operation involve components such as the trigger mechanism and the bolt, but those do not pertain to the magazine's primary function.

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://sdifirearmsinsptshooting.examzify.com>

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

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