

# Cannon Crewmember (13B) M119A3 10-Level 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**

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**1. What are the appropriate optimal distances for the M1A2 collimator?**

- A. 4m and 15m**
- B. 5m and 12m**
- C. 6m and 13m**
- D. 7m and 14m**

**2. What type of rounds can the M119A3 fire for illumination purposes?**

- A. High explosive rounds**
- B. Smoke rounds**
- C. 105mm projectile rounds**
- D. Guided missile rounds**

**3. In which position does the Chief sit when moving in the prime mover?**

- A. Driver's seat**
- B. Passenger seat**
- C. Tailgate**
- D. Behind the Driver**

**4. What is the effective range of the M119A3 howitzer?**

- A. 10 km**
- B. 15 km**
- C. 20 km**
- D. 25 km**

**5. What advantage does the lightweight design of the M119A3 provide?**

- A. Increased projectile range**
- B. Faster relocation capabilities**
- C. Greater firepower**
- D. Enhanced accuracy**

**6. What is the designation of the PD fuze for the artillery?**

- A. M582A1**
- B. M782**
- C. M762**
- D. M767**

**7. Which position is responsible for the overall leadership of the ammo team?**

- A. Ammunition Team Chief**
- B. Chief Gunner**
- C. Section Chief**
- D. Team Leader**

**8. Explain the significance of adjusting fire after the initial rounds.**

- A. To increase the fire rate**
- B. To refine targeting based on observed impacts**
- C. To change the type of ammunition used**
- D. To signal for more troops**

**9. What does HERA stand for in the context of artillery shells?**

- A. Heavy explosive rocket artillery**
- B. High explosive rocket assisted**
- C. High energy reactive ammunition**
- D. Hydraulic engagement rocketry analysis**

**10. What is the weight of the M119A3 howitzer approximately?**

- A. 5,000 pounds**
- B. 6,000 pounds**
- C. 7,000 pounds**
- D. 8,000 pounds**

## **Answers**

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

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## **Explanations**

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## 1. What are the appropriate optimal distances for the M1A2 collimator?

- A. 4m and 15m
- B. 5m and 12m**
- C. 6m and 13m
- D. 7m and 14m

The optimal distances for using the M1A2 collimator are specifically designed to ensure accurate alignment and functionality of the equipment during artillery operations. The recommended distances of 5 meters and 12 meters allow the operator to effectively calibrate and verify the alignment of the sighting systems in a controlled environment. These distances are chosen because they provide a balance between being close enough to facilitate precise adjustments and far enough to simulate field conditions. Utilizing the correct distances is crucial for the effective operation of the artillery system, as misalignment can lead to significant errors in targeting and firing accuracy. Each specified distance plays a critical role in the overall training and operational readiness of the Cannon Crewmember, ensuring that the equipment is fully functional when it is deployed in real-world scenarios.

## 2. What type of rounds can the M119A3 fire for illumination purposes?

- A. High explosive rounds
- B. Smoke rounds
- C. 105mm projectile rounds**
- D. Guided missile rounds

The M119A3 howitzer is designed primarily to fire 105mm projectile rounds, and among these rounds, specific types are utilized for various purposes, including illumination. Illumination rounds are a specialized type of projectile that is specifically created to provide light and enhance visibility in combat situations during night operations. While high explosive and smoke rounds serve particular functions—high explosive rounds for direct combat and smoke rounds for obscuring visibility or marking locations—they do not serve the purpose of illumination in a tactical context. Guided missile rounds are not applicable as the M119A3 is not designed to fire guided munitions; it focuses on conventional artillery projectiles. Therefore, the M119A3 fires 105mm projectile rounds specifically designed for illumination to fulfill the requirement for providing visibility and light during operations, making this choice the correct answer.

**3. In which position does the Chief sit when moving in the prime mover?**

- A. Driver's seat**
- B. Passenger seat**
- C. Tailgate**
- D. Behind the Driver**

The Chief sits in the passenger seat when moving in the prime mover. This position allows the Chief to have a clear view of the surrounding environment while also being able to communicate effectively with the driver. Sitting in the passenger seat facilitates better situational awareness and coordination between the Chief and the driver, which is crucial for maintaining operational efficiency and safety during transport. Other positions, like the driver's seat or behind the driver, may not provide the same level of oversight or direct communication as the passenger seat. The tailgate position is not practical for active movement since it can compromise safety and performance during transport. Therefore, the choice of the passenger seat for the Chief is strategically chosen to support effective leadership and operational readiness.

**4. What is the effective range of the M119A3 howitzer?**

- A. 10 km**
- B. 15 km**
- C. 20 km**
- D. 25 km**

The effective range of the M119A3 howitzer is indeed 15 km. This distance indicates the maximum range the artillery can accurately engage targets, allowing for effective fire support in various combat scenarios. The M119A3 howitzer is designed for mobility and fast deployment, making it suitable for light and medium forces. Its effective range of 15 km ensures that it can provide artillery support without compromising the mobility of the forces it supports. The proper understanding of this range is crucial for a cannon crewmember, as it influences fire planning, target engagement, and the overall strategy during operations. In terms of how artillery systems operate, being aware of effective range helps crews coordinate with infantry and other units on the battlefield, ensuring that artillery fire supports ground troop maneuvers while remaining within the envelope of effective engagement. This is why knowing the correct range is fundamental for artillery operations.

**5. What advantage does the lightweight design of the M119A3 provide?**

- A. Increased projectile range**
- B. Faster relocation capabilities**
- C. Greater firepower**
- D. Enhanced accuracy**

The lightweight design of the M119A3 artillery piece directly contributes to its faster relocation capabilities. Since the M119A3 is designed to be towed or airlifted easily, the reduction in weight allows for more rapid movement between firing positions. This is crucial in a combat environment where artillery units must frequently reposition themselves to adapt to changing tactical scenarios, avoid enemy fire, or provide support to front-line troops. Faster relocation ensures that the artillery can stay effective on the battlefield without becoming a stationary target for prolonged periods, thereby enhancing the overall effectiveness of an artillery unit in support of maneuver operations.

**6. What is the designation of the PD fuze for the artillery?**

- A. M582A1**
- B. M782**
- C. M762**
- D. M767**

The designation of the PD fuze for artillery is M582A1. This point-detonating fuze is used in artillery rounds to trigger the detonation of the projectile upon impact with the target. The M582A1 is specifically designed for use with various artillery projectiles, providing reliable detonation on impact with a solid target, which is essential for maximizing the effectiveness of artillery fire. Understanding this designation is crucial for cannon crewmembers, as using the correct fuze is a key factor in ensuring the desired performance of artillery rounds in different combat scenarios. It is important to note that while other fuzes like M782, M762, and M767 may serve specific functions or be utilized with other rounds, they do not serve as the PD fuze designation for artillery, which reinforces the importance of being familiar with the correct nomenclature and capabilities of different fuzes in military operations.

**7. Which position is responsible for the overall leadership of the ammo team?**

**A. Ammunition Team Chief**

**B. Chief Gunner**

**C. Section Chief**

**D. Team Leader**

The Ammunition Team Chief is responsible for the overall leadership of the ammo team. This position involves not only managing the personnel within the team but also ensuring that all ammunition handling and management tasks are performed safely and efficiently. The Ammunition Team Chief is tasked with coordinating the team's activities, maintaining accountability for ammunition and equipment, and ensuring that team members are properly trained and following standard operating procedures. In this leadership role, the Ammunition Team Chief serves as the primary point of contact for communication with higher command and other units, which is crucial for effective operations within the artillery unit. The Chief Gunner, Section Chief, and Team Leader have important roles within the team, focusing on operational specifics, technical expertise, or managing a smaller group of soldiers, but it is the Ammunition Team Chief who holds the comprehensive leadership and responsibility for the entire ammo team's performance and readiness.

**8. Explain the significance of adjusting fire after the initial rounds.**

**A. To increase the fire rate**

**B. To refine targeting based on observed impacts**

**C. To change the type of ammunition used**

**D. To signal for more troops**

Adjusting fire after the initial rounds is crucial for refining targeting based on observed impacts. When artillery is fired, the crew observes where the rounds land relative to the intended target. This information allows the crew to make necessary corrections to ensure that the subsequent rounds accurately hit the target. For effective artillery support, it is essential to adapt based on the actual performance and impact of the initial rounds. If the rounds fall short, overshoot, or miss to the side, the crew can adjust their aim accordingly—typically by changing the elevation and direction settings on their artillery piece. This process enhances the effectiveness of artillery fire and increases the likelihood of achieving desired results, such as neutralizing enemy positions or providing support to friendly forces. In contrast, increasing the fire rate, changing the type of ammunition, or signaling for more troops may not directly address targeting accuracy and effectiveness, which is the primary goal of adjusting fire.

## 9. What does HERA stand for in the context of artillery shells?

- A. Heavy explosive rocket artillery
- B. High explosive rocket assisted**
- C. High energy reactive ammunition
- D. Hydraulic engagement rocketry analysis

The correct answer is significant in the context of artillery as it refers to High Explosive Rocket Assisted ammunition. This type of artillery shell combines traditional explosive shells with rocket assistance to enhance range and lethality. The rocket boost allows the projectile to travel farther than traditional shells, increasing its effectiveness on the battlefield. High Explosive Rocket Assisted projectiles utilize a solid rocket motor that ignites after the shell is fired, providing additional thrust and allowing the shell to reach its target with greater velocity and distance. This capability is crucial for modern artillery operations, where accurate and long-range fire support is often needed. Understanding the term "HERA" helps convey the technological advancements in artillery ammunition, where the integration of rockets into explosive projectiles represents a significant enhancement in firepower and operational effectiveness.

## 10. What is the weight of the M119A3 howitzer approximately?

- A. 5,000 pounds
- B. 6,000 pounds
- C. 7,000 pounds**
- D. 8,000 pounds

The M119A3 howitzer has an approximate weight of 7,000 pounds, which makes it a relatively lightweight towed artillery piece compared to others in its class. This weight allows for easier mobility and transport by both vehicles and personnel while maintaining sufficient firepower and performance for its designated role on the battlefield. The design of the M119A3 emphasizes a balance between portability and effective artillery performance, which is critical for rapid deployment and repositioning in dynamic combat situations. This characteristic of the M119A3 reflects its operational efficiency and adaptability across various terrains, ensuring that it can fulfill its mission requirements effectively.

# 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](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://13bm119a310level.examzify.com>**

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

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