

# M777A2 Howitzer Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. What is the quadrant elevation (QE) range of the M777A2?**
  - A. -30 to 1000 mils**
  - B. -43 to 1275 mils**
  - C. -50 to 1500 mils**
  - D. 0 to 1200 mils**
- 2. What technology does the M777A2 utilize for communications?**
  - A. Analog radios only**
  - B. Encrypted digital communication systems**
  - C. Basic signaling methods**
  - D. Infrared communication devices**
- 3. What does EPIAFS stand for?**
  - A. Electronic Portable Induction Artillery Fuse Setter**
  - B. Enhanced Portable Inductive Artillery Fuse Setter**
  - C. Emergency Portable Inductive Artillery Fuse System**
  - D. Explosive Portable Inductive Artillery Fuse Setter**
- 4. What does the M777A2's mobility allow it to do in combat?**
  - A. Conduct operations only in stationary positions**
  - B. Reposition quickly to avoid enemy detection**
  - C. Serve solely as a defensive weapon**
  - D. Only support artillery needs**
- 5. Which of the following is the nomenclature for a mechanical time (MT) fuze?**
  - A. M564**
  - B. M565**
  - C. M782**
  - D. M18**

- 6. What allows the M777A2 to be operated efficiently in various terrains?**
- A. Adjustable wheelbase**
  - B. Articulating chassis**
  - C. Advanced suspension system**
  - D. Compact design**
- 7. Which system is used to restrain loose projectiles?**
- A. Vector Control System**
  - B. Loose Projectiles Restraint System**
  - C. Mobile Restraint Apparatus**
  - D. Artillery Safety Net**
- 8. What enhances the M777A2's tactical flexibility?**
- A. Its hydraulic recoil system**
  - B. Its ability to fire precision-guided munitions**
  - C. Its transportability**
  - D. Its large crew size**
- 9. When inspecting the muzzle brake, cracks larger than what size must be reported?**
- A. Half an inch**
  - B. Three-quarters of an inch**
  - C. One inch**
  - D. One and a half inches**
- 10. Which of the following rounds is specifically loaded with Composition B?**
- A. M549**
  - B. M795**
  - C. M1124**
  - D. M825**

## **Answers**

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

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## **Explanations**

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**1. What is the quadrant elevation (QE) range of the M777A2?**

- A. -30 to 1000 mils
- B. -43 to 1275 mils**
- C. -50 to 1500 mils
- D. 0 to 1200 mils

The quadrant elevation (QE) range of the M777A2 Howitzer is vital for understanding its operational capabilities. The M777A2 is designed to fire accurately at a wide range of elevations, which are measured in mils. The correct range of -43 to 1275 mils indicates that the howitzer can adjust for very low angles of fire, which can be crucial in specific combat scenarios, as well as for a considerable elevation to target distant threats effectively. This capability allows for a greater variety of targeting options, ensuring that the weapon system can engage effectively in different terrains and against various types of targets. The QE range ensures that gun crews can efficiently set their armament to match the necessary firing solutions, contributing to the artillery's overall effectiveness in support of ground forces. The other ranges might suggest capabilities that are either insufficient or exceed the actual design parameters of the M777A2, which is why they are not applicable.

**2. What technology does the M777A2 utilize for communications?**

- A. Analog radios only
- B. Encrypted digital communication systems**
- C. Basic signaling methods
- D. Infrared communication devices

The M777A2 Howitzer utilizes encrypted digital communication systems for its communications. This technology allows for secure and efficient transmission of data, which is essential on the modern battlefield. Encrypted digital systems ensure that communications are protected from interception and jamming by adversaries, thereby maintaining operational security. This capability is critical for coordination and effectiveness in fire support operations, as it enables smooth communication between the howitzer, fire direction centers, and other elements of the artillery unit. The choice of using digital communication systems reflects the necessity for advanced technology in military operations, where rapid and secure information exchange can significantly impact mission success. In contrast, analog radios and basic signaling methods lack the security and capabilities of encrypted digital systems, making them less effective for contemporary military needs. Similarly, infrared communication devices, while useful in certain contexts, do not provide the same level of comprehensive communication across the various operational requirements encountered by the M777A2 on the battlefield.

### 3. What does EPIAFS stand for?

- A. Electronic Portable Induction Artillery Fuse Setter
- B. Enhanced Portable Inductive Artillery Fuse Setter**
- C. Emergency Portable Inductive Artillery Fuse System
- D. Explosive Portable Inductive Artillery Fuse Setter

The term EPIAFS stands for "Enhanced Portable Inductive Artillery Fuse Setter." This designation highlights the system's advanced capabilities in setting artillery fuses in a portable manner, which is crucial for modern artillery operations. The "Enhanced" aspect indicates improvements over previous systems, likely in terms of efficiency, accuracy, and ease of use. This device is specifically designed for the M777A2 Howitzer and other artillery systems to streamline the process of preparing ammunition for firing. By utilizing inductive technology, it allows for quicker and more reliable fuse setting, which is essential in combat scenarios where time and precision are critical. Understanding the correct terminology is vital, as it reflects the modern capabilities and functionalities of artillery support equipment and ensures clear communication among military personnel.

### 4. What does the M777A2's mobility allow it to do in combat?

- A. Conduct operations only in stationary positions
- B. Reposition quickly to avoid enemy detection**
- C. Serve solely as a defensive weapon
- D. Only support artillery needs

The M777A2 Howitzer's mobility is a key feature that enhances its effectiveness in combat situations. The ability to reposition quickly allows the artillery unit to adapt to changing battlefield conditions, reduce its vulnerability to counter-battery fire, and maintain operational tempo. This rapid movement can help the unit avoid detection by the enemy, allowing for surprise attacks and a strategic repositioning to new firing positions, which is critical for maintaining the initiative on the battlefield. In contrast, options suggesting that the M777A2 can only operate from stationary positions or serve solely as a defensive weapon overlook the versatility that mobility provides in both offensive and defensive operations. While it does play a significant role in artillery support, asserting that it can only support artillery needs limits the broader tactical applications that its mobility enables in modern warfare.

**5. Which of the following is the nomenclature for a mechanical time (MT) fuze?**

- A. M564**
- B. M565**
- C. M782**
- D. M18**

The nomenclature for a mechanical time (MT) fuze is M565. This fuze is designed for use in combination with artillery shells to detonate at a predetermined time after being fired, allowing for effective targeting in situations where an airburst is desired or when the shell needs to impact at a specific moment relative to the target's movement or position. The M565 is specifically engineered to function with high-explosive projectiles, enhancing their effectiveness by creating a burst that can cause maximum damage over a wide area. It utilizes mechanical components to track time, providing reliable performance in various combat scenarios. Understanding the characteristics of the M565 fuze is critical for ensuring correct artillery operation and maximizing the effectiveness of the artillery fire support in military operations.

**6. What allows the M777A2 to be operated efficiently in various terrains?**

- A. Adjustable wheelbase**
- B. Articulating chassis**
- C. Advanced suspension system**
- D. Compact design**

The advanced suspension system of the M777A2 is pivotal in enabling the howitzer to operate efficiently across a wide range of terrains. This system is designed to absorb shocks from uneven ground and provide better stability during firing and transit. It enhances the vehicle's mobility by allowing for smoother navigation over obstacles such as rocks, ditches, and rough terrain. An effective suspension system not only improves comfort for crew members but also maintains the accuracy of firing by minimizing the impact of terrain-induced disturbances. This is crucial in field operations where quick movements and the ability to deploy in diverse environments are essential. While adjustable wheelbase, articulating chassis, and compact design contribute to the overall versatility and functionality of the howitzer, the advanced suspension system plays a critical role specifically in adapting to different terrains, thus enhancing operational efficiency in various scenarios.

**7. Which system is used to restrain loose projectiles?**

- A. Vector Control System**
- B. Loose Projectiles Restraint System**
- C. Mobile Restraint Apparatus**
- D. Artillery Safety Net**

The Loose Projectiles Restraint System is specifically designed to secure loose projectiles within the howitzer, ensuring they remain properly restrained during transportation and operation. This system minimizes the risk of projectiles shifting or becoming dislodged, which could lead to safety hazards, misfires, or damage to the equipment. In artillery operations, maintaining the integrity and security of munitions is crucial for both safety and effective firing procedures. The Loose Projectiles Restraint System plays an essential role in preventing accidents and ensuring that the howitzer operates under safe conditions, especially since loose projectiles can pose significant risks if not properly managed. Other systems mentioned, while related to safety or operational efficiency, do not specifically address the unique requirement of restraining loose projectiles, making the Loose Projectiles Restraint System the most relevant and accurate choice in this context.

**8. What enhances the M777A2's tactical flexibility?**

- A. Its hydraulic recoil system**
- B. Its ability to fire precision-guided munitions**
- C. Its transportability**
- D. Its large crew size**

The tactical flexibility of the M777A2 Howitzer is significantly enhanced by its transportability. This howitzer is designed to be lightweight and can be easily towed by various vehicles, including helicopters and tactical trucks. The capacity to rapidly deploy in different operational environments allows for quick repositioning on the battlefield, adapting to evolving combat situations, and supporting a wide range of missions effectively. Transportability is crucial for modern artillery systems, enabling them to be moved swiftly to required locations, whether for offensive maneuvers or to respond to enemy threats. This mobility facilitates better logistical support and operational planning, allowing commanders to leverage artillery support where it is most needed, thus improving overall mission success and responsiveness. While other factors, such as the hydraulic recoil system, firing precision-guided munitions, and crew size contribute to the overall effectiveness of the howitzer, transportability prominently influences its ability to adapt and operate efficiently across various battlefield scenarios.

**9. When inspecting the muzzle brake, cracks larger than what size must be reported?**

- A. Half an inch**
- B. Three-quarters of an inch**
- C. One inch**
- D. One and a half inches**

The correct answer emphasizes the importance of identifying significant structural issues in the muzzle brake of the M777A2 Howitzer. Cracks that are one inch or larger can compromise the integrity and performance of the muzzle brake, which plays a critical role in managing recoil and ensuring safe operation. Reporting cracks of this size is essential for maintaining the weapon's safety and effectiveness. Such inspections are part of standard maintenance protocols to prevent malfunctions or failures that could arise from compromised components. Thus, identifying and reporting a crack of one inch or larger is crucial for operational readiness and the longevity of the equipment.

**10. Which of the following rounds is specifically loaded with Composition B?**

- A. M549**
- B. M795**
- C. M1124**
- D. M825**

The M549 round is specifically loaded with Composition B, a type of explosive that combines RDX and TNT. Composition B is known for its high detonation velocity and significant shattering effect, making it highly effective for penetrating targets and maximizing the destructive output of the projectile. The M549 is a ERFB (Extended Range, Full-Bore) projectile designed for use with the M777A2 Howitzer, enhancing its capability to engage enemy forces and infrastructure at greater distances. This distinct combination of propellant allows the M549 to achieve a balance between range and lethality, which is crucial in artillery operations. In contrast, other rounds like the M795 and M825 are not loaded with Composition B, employing different explosives optimized for various tactical uses, such as increased range or specific target effects. The M1124, on the other hand, is designed for different operational purposes as well, contributing to the versatility of the artillery arsenal but without the unique explosive composition of the M549. Understanding these specifications allows artillery crews to select the appropriate round based on mission requirements and target characteristics.