

Highway Safety and Vehicle Extrication Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. Which tool is essential for effectively removing a vehicle's roof during an extrication?**
 - A. Hydraulic cutters**
 - B. Jaws of life**
 - C. Laser cutter**
 - D. Axe**
- 2. What type of eye protection is appropriate for an EMT on the scene of an extrication?**
 - A. Prescription eyeglasses**
 - B. Face conforming goggles**
 - C. A plastic face shield of the type used for Standard Precautions**
 - D. All of the above**
- 3. What is a simple removal technique for minor vehicle obstructions?**
 - A. Using complex hydraulic tools**
 - B. Using manual tools or hand power**
 - C. Using explosives for faster access**
 - D. Waiting for specialized equipment**
- 4. What is the protocol for using flares at an accident scene?**
 - A. Place them at a safe distance to alert oncoming traffic**
 - B. Throw them directly at the vehicle's gas tank**
 - C. Use them only at night**
 - D. Place them inside the vehicle for visibility**
- 5. What should be done if multiple critically injured patients are found at a collision scene?**
 - A. Reassess the scene for safety**
 - B. Wait for the arrival of additional personnel**
 - C. Call for additional rescue units and transporting ambulances**
 - D. Administer first aid to the most visible patient**

- 6. Which activity should NOT occur during the scene size-up?**
- A. Providing airway management**
 - B. Determining the mechanism of injury**
 - C. Determining the extent of the patient's entrapment**
 - D. Determining the need for additional resources**
- 7. Which of the following is a safety measure when responding to vehicle crashes?**
- A. Avoiding interaction with first responders**
 - B. Wearing bright colored clothing**
 - C. Using flares for traffic diversion**
 - D. Securing the area with tape**
- 8. What is a common psychological effect that can occur for first responders?**
- A. Depression**
 - B. PTSD (Post-Traumatic Stress Disorder)**
 - C. Sleep disturbances**
 - D. Anxiety disorders**
- 9. If airbags have not deployed in a vehicle after a head-on collision, what should you do for scene safety?**
- A. Enter the vehicle immediately for assessment**
 - B. Disconnect the battery and wait two minutes**
 - C. Check the airbags for deployment manually**
 - D. Wait for fire personnel to ensure safety**
- 10. What remains consistent regardless of the patient's priority level during extrication?**
- A. The use of basic medical equipment**
 - B. The principles of spinal immobilization**
 - C. The need for speed of removal**
 - D. The involvement of bystanders**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. Which tool is essential for effectively removing a vehicle's roof during an extrication?

A. Hydraulic cutters

B. Jaws of life

C. Laser cutter

D. Axe

The Jaws of Life, commonly referred to as hydraulic rescue tools, are specifically designed for extrication operations, including the removal of a vehicle's roof. These tools utilize hydraulic force to perform powerful cutting and spreading actions, making them invaluable in situations where access to trapped occupants is critical. When it comes to removing a vehicle's roof, the Jaws of Life provide the necessary strength and precision to cut through various materials such as reinforced metal and structural supports with relative ease. This capability is crucial in minimizing the time required for extrication operations, thereby enhancing the safety of victims who may be in distress within the vehicle. Other options, while useful for different tasks, do not offer the same level of efficacy for this specific operation. Hydraulic cutters, for example, though powerful, are typically designed for cutting metal pipes or other applications. A laser cutter would not be practical in an emergency extrication scenario due to safety concerns, high power requirements, and the need for precision often infeasible in the chaos of a rescue operation. An axe, although a traditional cutting tool, lacks the hydraulic power and safety features needed for effective and rapid vehicle extrication. This makes the Jaws of Life the most suitable and essential tool for safely and efficiently removing a vehicle's

2. What type of eye protection is appropriate for an EMT on the scene of an extrication?

A. Prescription eyeglasses

B. Face conforming goggles

C. A plastic face shield of the type used for Standard Precautions

D. All of the above

Face conforming goggles are appropriate for an EMT on the scene of an extrication due to their ability to provide a secure fit and offer comprehensive protection against flying debris, bloodborne pathogens, and other potential hazards present during the extrication process. These goggles conform closely to the face, minimizing the risk of exposure to harmful elements that might be encountered in a chaotic scene. While prescription eyeglasses can offer some level of vision correction, they do not provide sufficient protection against the specific hazards associated with extrication. They leave areas around the eyes exposed and may not fit securely. Plastic face shields provide a barrier against splashes or airborne particles, but they are generally not as effective as goggles in protecting against debris that could come from various angles during an extrication scenario. Therefore, face conforming goggles are the best option as they meet the necessary protective standards while ensuring the EMT can perform their duties safely and effectively.

3. What is a simple removal technique for minor vehicle obstructions?

- A. Using complex hydraulic tools**
- B. Using manual tools or hand power**
- C. Using explosives for faster access**
- D. Waiting for specialized equipment**

Using manual tools or hand power is an effective and appropriate method for addressing minor vehicle obstructions. This technique allows for more controlled and precise handling of the situation, particularly in scenarios where the obstruction is not severe. For instance, if a door is lightly jammed, a simple hand tool can help nudging it open without the need for extensive equipment or significant force. Additionally, using manual tools is often faster and safer in situations where the obstruction does not pose a significant risk to personnel or bystanders. It eliminates the potential complications and dangers associated with hydraulic tools or explosives, which are better reserved for more serious extrication scenarios. By relying on basic, familiar tools, responders can quickly alleviate minor issues and maintain an efficient workflow during an emergency response. The other options involve methods that may not only be unnecessary for minor obstructions but also introduce additional complexities or dangers that can escalate the situation unnecessarily.

4. What is the protocol for using flares at an accident scene?

- A. Place them at a safe distance to alert oncoming traffic**
- B. Throw them directly at the vehicle's gas tank**
- C. Use them only at night**
- D. Place them inside the vehicle for visibility**

Using flares at an accident scene serves a critical purpose in enhancing safety and alerting oncoming traffic to potential hazards. The correct approach is to place them at a safe distance from the accident. This not only illuminates the area for incoming vehicles but also provides a visible warning to drivers, allowing them to slow down or maneuver around the scene effectively, thus reducing the risk of additional collisions. Flares are designed to signal danger, and their placement should be strategic to maximize visibility while ensuring they do not ignite flammable materials or pose a hazard to emergency responders on scene. The safest practice involves setting them up well beyond the immediate area of the incident, allowing for ample warning for drivers approaching from both directions. Other choices, such as throwing flares at a vehicle's gas tank or placing them inside a vehicle, could lead to dangerous situations, including fires or explosions. Using flares only at night limits their effectiveness because while they provide visual cues in the dark, their use during the day can still significantly enhance safety for approaching motorists. Thus, placing them safely to alert traffic is the best and correct protocol.

5. What should be done if multiple critically injured patients are found at a collision scene?

- A. Reassess the scene for safety**
- B. Wait for the arrival of additional personnel**
- C. Call for additional rescue units and transporting ambulances**
- D. Administer first aid to the most visible patient**

When multiple critically injured patients are found at a collision scene, calling for additional rescue units and transporting ambulances is crucial. This step ensures that there are sufficient medical resources available to handle the number of injured individuals. Each critically injured patient may require immediate medical attention, and a single ambulance may not be able to transport all patients simultaneously. The prompt request for more rescue units allows for a coordinated response and increases the chances of saving lives by ensuring that specialized care can be provided swiftly. Having multiple ambulances and medical personnel on scene enables the rescue team to triage patients effectively, ensuring that those with the most severe injuries receive care first and are transported to medical facilities without delay. This response strategy aligns with the principles of mass casualty management, emphasizing the importance of rapid assessment and resource allocation in emergency situations.

6. Which activity should NOT occur during the scene size-up?

- A. Providing airway management**
- B. Determining the mechanism of injury**
- C. Determining the extent of the patient's entrapment**
- D. Determining the need for additional resources**

During the scene size-up, the primary focus is on assessing the overall safety of the scene, identifying potential hazards, and gathering essential information to facilitate effective incident management. While airway management is a critical component of patient care, it is not part of the scene size-up process. This phase is intended for situational awareness and evaluation—not for delivering medical interventions. The other activities mentioned, such as determining the mechanism of injury, assessing the extent of a patient's entrapment, and identifying the need for additional resources, are all vital components of scene size-up. Understanding the mechanism of injury helps responders anticipate potential injuries, while assessing patient entrapment informs the required extrication techniques. Additionally, determining the need for extra resources ensures that appropriate support is available for both patient care and scene management as the situation evolves. These activities collectively lay the groundwork for an effective response before any actual treatment or intervention is initiated.

7. Which of the following is a safety measure when responding to vehicle crashes?

- A. Avoiding interaction with first responders**
- B. Wearing bright colored clothing**
- C. Using flares for traffic diversion**
- D. Securing the area with tape**

Using flares for traffic diversion is an essential safety measure when responding to vehicle crashes. Flares are designed to enhance visibility and alert oncoming traffic to the presence of an incident, thereby reducing the likelihood of secondary collisions. By positioning flares appropriately, responders can create a safer environment for both themselves and involved parties, as well as motorists approaching the scene. Visibility is a critical factor in highway safety; flares serve as a warning signal that can catch the attention of drivers, prompting them to slow down and navigate safely around the scene of the crash. This proactive step can help to mitigate the risk of further accidents and ensure that emergency personnel can carry out their duties with reduced hazard. The other options, while they may have some merit in certain contexts, do not address the immediate need for traffic management in the same effective way as using flares. Therefore, utilizing flares is a highly recognized and effective practice for improving safety during emergency response situations at vehicle crash scenes.

8. What is a common psychological effect that can occur for first responders?

- A. Depression**
- B. PTSD (Post-Traumatic Stress Disorder)**
- C. Sleep disturbances**
- D. Anxiety disorders**

PTSD (Post-Traumatic Stress Disorder) is a common psychological effect experienced by first responders due to their exposure to traumatic events during their duties. First responders, such as firefighters, emergency medical personnel, and law enforcement officers, frequently encounter high-stress situations involving severe injuries, fatalities, and life-threatening scenarios. These experiences can lead to lasting psychological effects. Symptoms of PTSD can include intrusive memories, flashbacks, severe anxiety, and uncontrollable thoughts about the traumatic events. The nature of their work often puts first responders at a heightened risk for developing this condition because they may regularly witness distressing incidents and have to manage intense emotional and physical stress. While depression, sleep disturbances, and anxiety disorders can also affect first responders, PTSD specifically captures the unique response to trauma that can have persistent and severe implications on their mental health and overall well-being. Understanding this helps in providing appropriate support and resources for first responders to cope with the psychological demands of their roles.

9. If airbags have not deployed in a vehicle after a head-on collision, what should you do for scene safety?

- A. Enter the vehicle immediately for assessment**
- B. Disconnect the battery and wait two minutes**
- C. Check the airbags for deployment manually**
- D. Wait for fire personnel to ensure safety**

Disconnecting the battery and waiting for two minutes is crucial for scene safety after a head-on collision where airbags have not deployed. When airbags fail to deploy, there might still be residual electrical energy in the airbag system, which could pose a risk of accidental deployment. By disconnecting the battery, you are cutting off the power to the airbag system, reducing the risk of unintentional activation. Waiting an additional two minutes allows any remaining energy to dissipate, ensuring that the vehicle's electrical system is safe to work around. This approach prioritizes the safety of first responders and anyone involved in the incident by ensuring that they are not exposed to the potential dangers associated with airbags, which are designed to deploy at high speeds during a crash. If responders were to enter the vehicle too quickly without taking these precautions, they could inadvertently trigger an airbag, risking serious injury. Other options do not adequately address the safety risks associated with airbags. Entering the vehicle immediately without disconnecting the battery could lead to an unexpected airbag deployment. Manually checking the airbags for deployment is unsafe and impractical; it does not mitigate the risk of accidental deployment as effectively as disconnecting the battery. Waiting for fire personnel may be necessary in some scenarios, but taking proactive

10. What remains consistent regardless of the patient's priority level during extrication?

- A. The use of basic medical equipment**
- B. The principles of spinal immobilization**
- C. The need for speed of removal**
- D. The involvement of bystanders**

The principles of spinal immobilization remain consistent regardless of the patient's priority level during extrication because maintaining spinal alignment and preventing further injury is crucial in all scenarios. Improper handling of a patient with a possible spinal injury can lead to exacerbation of their condition, potentially resulting in permanent damage. Therefore, regardless of whether a patient is categorized as high, medium, or low priority, emergency responders are trained to adhere to spinal immobilization protocols. These protocols include using cervical collars, backboards, and straps to ensure the patient's spine is protected throughout the extrication process. By prioritizing spinal stabilization, responders can mitigate the risk associated with movement, which is essential for any patient potentially suffering from a spinal cord injury. Other options, although relevant, do not universally apply to all situations. The use of basic medical equipment may vary based on the specific needs of the patient or the available resources. The need for speed of removal can be heightened in some cases but may not always be the primary concern depending on the circumstances surrounding the extrication, such as the nature of the injury. Lastly, the involvement of bystanders might be beneficial, but it is not a guaranteed factor and can vary from one incident to another.