

MFRI Rescue Technician Vehicle and Machinery Extrication (VME) Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

SAMPLE

- 1. In vehicle stabilization, what is primarily applied to stop the vehicle?**
 - A. Emergency brakes**
 - B. Equipment and techniques**
 - C. Support beams**
 - D. Chains or ropes**
- 2. How is a six-point crib different from a four-point crib?**
 - A. It supports only the front and rear**
 - B. It includes additional horizontal support**
 - C. It supports additional points between the fore and aft cribbing**
 - D. It only requires three points of contact**
- 3. What is a clevis hook designed for?**
 - A. To stabilize an object during an operation**
 - B. To provide a permanent attachment to a load**
 - C. For rapid connection during vehicle extrication**
 - D. To prevent objects from slipping off during movement**
- 4. What is a common use for a Class C Wrecker in emergency situations?**
 - A. Launching boats**
 - B. Rescuing trapped individuals**
 - C. Towing large accident vehicles**
 - D. Delivering emergency supplies**
- 5. What common hazard might rescuers encounter during an extrication?**
 - A. Wild animals**
 - B. Traffic**
 - C. Weather conditions**
 - D. Terrain Variability**

- 6. What does "Safe the Vehicle" mean in rescue operations?**
- A. The process of wrapping up equipment**
 - B. The procedures to prepare a vehicle for extrication**
 - C. The act of securing victims within the vehicle**
 - D. The method of disabling the vehicle's battery**
- 7. Which of the following is NOT listed as an alternative vehicle fuel source?**
- A. Propane**
 - B. Natural Gas**
 - C. Electricity**
 - D. Jet Propellant**
- 8. What method is used to separate connected saddle tanks?**
- A. Gravity feed**
 - B. Valve method**
 - C. Check valves**
 - D. Pressure release**
- 9. Which of the following is NOT a vehicle component example that rescue personnel should be aware of?**
- A. Airbags**
 - B. Fuel Tank**
 - C. Engine Components**
 - D. Seats**
- 10. Which of these actions is part of the rehabilitation process for incident responders?**
- A. Providing medical treatment**
 - B. Restoring scene control**
 - C. Offering hydration and rest**
 - D. Conducting a post-incident briefing**

Answers

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

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Explanations

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1. In vehicle stabilization, what is primarily applied to stop the vehicle?

- A. Emergency brakes**
- B. Equipment and techniques**
- C. Support beams**
- D. Chains or ropes**

In vehicle stabilization, the primary focus is on the use of equipment and techniques designed to secure the vehicle in place to prevent any movement while rescue operations are conducted. This involves utilizing tools such as chocks, wedges, or stabilization struts, which can be employed to create a stable environment around the vehicle, ensuring it remains stationary. The application of these techniques is critical in extrication scenarios, as it mitigates the risk of the vehicle shifting or rolling, which could endanger both the victims trapped inside and the rescuers. Proper stabilization techniques not only provide immediate support but also facilitate the safe extraction of individuals from compromised vehicle positions. While emergency brakes, support beams, and chains or ropes can play roles in vehicle stabilization, they are typically part of a broader system of techniques and equipment used to achieve effective stabilization. Emergency brakes may not always fully secure the vehicle, especially if there are mechanical failures or if the vehicle is on an incline. Support beams can be deployed as part of stabilization but do not alone provide a comprehensive stabilization strategy. Chains or ropes may assist in securing the vehicle but should be part of a coordinated set of tools. Thus, the most holistic and effective approach to stop the vehicle during extrication is through the application of specialized equipment and

2. How is a six-point crib different from a four-point crib?

- A. It supports only the front and rear**
- B. It includes additional horizontal support**
- C. It supports additional points between the fore and aft cribbing**
- D. It only requires three points of contact**

A six-point crib provides additional stability in a rescue scenario by having more points of contact with the ground compared to a four-point crib. Specifically, this configuration adds support at points between the front and rear, distributing the weight more evenly and minimizing any risk of shifting or collapse. This is critical when working with vehicles during extrication, as it ensures that the load is properly balanced, which enhances safety for both the rescuers and the victims. The extra points in a six-point crib can also provide better overall support for irregular or uneven surfaces often encountered during rescue operations. The other options do not correctly reflect the unique structure of a six-point crib. For instance, while some configurations might support only front and rear, a six-point crib specifically enhances support by adding those crucial intermediary contact points. Additionally, while horizontal support can be important in certain cribbing setups, the defining characteristic of a six-point crib is its extra points of contact rather than just horizontal stability. Lastly, the structural integrity of a cribbing system requires more than three points of contact to ensure reliable support, further distinguishing a six-point crib from configurations that have fewer contact points.

3. What is a clevis hook designed for?

- A. To stabilize an object during an operation**
- B. To provide a permanent attachment to a load**
- C. For rapid connection during vehicle extrication**
- D. To prevent objects from slipping off during movement**

A clevis hook is specifically designed to provide a rapid and easy connection during various operations, including vehicle extrication. This type of hook allows for quick attachment and detachment of components, which is crucial in emergency situations where time is of the essence. In the context of vehicle extrication, rescuers often need to connect cables, chains, or other components rapidly to stabilize or lift vehicles effectively. The clevis hook's design enables this functionality, making it an essential tool in rescue operations. While other options mention important roles in stabilizing or securing objects, they do not capture the primary purpose of the clevis hook, which is focused on facilitating rapid connection, enhancing efficiency and safety during emergency extrication processes.

4. What is a common use for a Class C Wrecker in emergency situations?

- A. Launching boats**
- B. Rescuing trapped individuals**
- C. Towing large accident vehicles**
- D. Delivering emergency supplies**

A Class C Wrecker is specifically designed for towing large vehicles, making it an essential resource in emergency situations involving accidents. This type of wrecker typically has a heavy-duty frame and towing capacity needed to safely secure and transport larger vehicles that may have been involved in collisions or breakdowns. In scenarios where vehicles are overturned or in precarious positions, a Class C Wrecker can provide the necessary power and equipment to stabilize and remove these vehicles off the roadway, facilitating a safer environment for emergency responders and other motorists. In contrast, launching boats and delivering emergency supplies do not typically fall within the primary functions of a Class C Wrecker. Additionally, while rescuing trapped individuals is a critical aspect of emergency response, it generally requires specialized rescue equipment and personnel trained in extrication techniques rather than the towing mechanisms that a Class C Wrecker specializes in. This delineation of use highlights why towing large accident vehicles is the most appropriate and accurate answer.

5. What common hazard might rescuers encounter during an extrication?

- A. Wild animals**
- B. Traffic**
- C. Weather conditions**
- D. Terrain Variability**

During an extrication, traffic presents a significant and common hazard for rescuers. When responding to incidents on roadways, rescuers must contend with moving vehicles that can pose severe risks. The presence of active traffic creates a need for proper scene safety measures, such as deploying traffic controls, utilizing warning lights, and establishing safe zones to protect first responders and victims alike. While wild animals, weather conditions, and terrain variability can also be hazards in certain scenarios, traffic is most consistently encountered at vehicular incident scenes. Rescuers must always be vigilant about oncoming vehicles, as their presence can quickly change the dynamics of the emergency response. By prioritizing the management of traffic hazards, rescuers can better ensure their safety and the safety of those they are helping.

6. What does "Safe the Vehicle" mean in rescue operations?

- A. The process of wrapping up equipment**
- B. The procedures to prepare a vehicle for extrication**
- C. The act of securing victims within the vehicle**
- D. The method of disabling the vehicle's battery**

"Safe the Vehicle" in rescue operations refers specifically to the procedures that ensure a vehicle is stable and secure before any extrication efforts take place. This involves a series of steps designed to eliminate hazards that could pose risks to both victims and rescuers, such as ensuring the vehicle won't roll over, securing doors, and assessing the stability of the vehicle's structure. Preparing the vehicle for extrication is crucial because it protects the safety of everyone involved in the operation. This may include disabling systems, stabilizing the vehicle, and employing appropriate tools and techniques to mitigate any dangers associated with the vehicle's operation. It lays the groundwork for effective and safe rescue efforts, making it possible to safely access and extricate victims without further injury. Understanding this term in the context of rescue operations is vital for ensuring the safety of both rescuers and individuals in distress, which highlights the importance of following these procedures prior to any direct victim contact or extrication maneuvers.

7. Which of the following is NOT listed as an alternative vehicle fuel source?

- A. Propane**
- B. Natural Gas**
- C. Electricity**
- D. Jet Propellant**

Electricity is often classified as an alternative fuel source; however, within the context of vehicles specifically designed to run on different fuels, it may not always be included in the same category as propane, natural gas, and jet propellant. Alternative vehicle fuel sources typically refer to non-conventional fuels that are used to power vehicles, which may include propane, natural gas, and certain types of synthetics or biofuels. These fuels are classified as alternatives because they serve as substitutes for traditional gasoline or diesel. Jet propellant, while commonly used in aviation, is also off the standard list of alternative fuels for ground vehicles. The distinction here is that while all of these fuels can power vehicles, electricity tends to represent a broader energy source for various applications, often associated with electric vehicles that utilize batteries and charging systems rather than being a fuel source in the same way as the others listed. Therefore, electricity can be seen as a less conventional choice when strictly considering fuels in the context of vehicle operation compared to the others listed.

8. What method is used to separate connected saddle tanks?

- A. Gravity feed**
- B. Valve method**
- C. Check valves**
- D. Pressure release**

The valve method is employed to separate connected saddle tanks as it allows for controlled disengagement. This method involves closing the valves that connect the saddle tanks, effectively isolating them from one another. By doing so, it prevents the uncontrolled flow of fluids between the tanks, ensuring safety during the separation process. This technique is critical in managing liquids and preventing spills, especially in emergency scenarios. Using the valve method ensures that both tanks can be separated without risking leaks or hazardous spills that could result from gravity feeds or pressure release methods. While check valves can prevent backflow in systems, they do not facilitate the purposeful separation of connected tanks and thus are not suitable for this specific operation.

9. Which of the following is NOT a vehicle component example that rescue personnel should be aware of?

A. Airbags

B. Fuel Tank

C. Engine Components

D. Seats

The answer provided identifies engine components as not being a primary concern for rescue personnel during extrication operations. While knowledge of various vehicle components is essential for effective rescue and to ensure safety during the extrication process, engine components are often not as critically relevant during initial rescue efforts compared to the other listed components. Airbags, for example, are crucial to understand because they can deploy unexpectedly and pose a significant risk to rescuers if not handled properly. Similarly, knowledge about fuel tanks is vital due to the potential for fire hazards and leaks that can arise during an incident. Additionally, seats and their mechanisms are also important because they may pose entrapment risks or affect the overall stability of the vehicle during an extraction. In contrast, engine components typically relate more to vehicle function and less to immediate rescue hazards. Therefore, while it's beneficial for responders to have a basic understanding of engine components, their focus during rescue operations is primarily on things that directly affect safety and entrapment scenarios, making this option the least critical for their training in the context of rescue operations.

10. Which of these actions is part of the rehabilitation process for incident responders?

A. Providing medical treatment

B. Restoring scene control

C. Offering hydration and rest

D. Conducting a post-incident briefing

Offering hydration and rest is a crucial component of the rehabilitation process for incident responders. During emergency responses, personnel can experience significant physical and mental fatigue due to the demanding nature of their work. Providing adequate hydration helps prevent dehydration, which can impair performance and lead to health issues. Similarly, allowing responders to rest is essential for recovering energy levels and maintaining operational effectiveness. This can help ensure that responders remain alert and capable of performing their duties safely throughout the incident. In contrast, while providing medical treatment is vital, it typically occurs in response to specific injuries or health concerns rather than as a standard part of rehabilitation. Restoring scene control is essential for managing the incident effectively, but it is more of a tactical operation than a rehabilitation step focused on responder welfare. Conducting a post-incident briefing is important for evaluating performance and outcomes after the incident has concluded but does not address immediate rehabilitation needs, which are focused on keeping responders healthy and capable during extended operations.