

Fire Officers Handbook of Tactics Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. What is the primary consideration when determining the size of the pumping equipment?**
 - A. Capacity of water supply**
 - B. Type of hose used**
 - C. Fire load of the building**
 - D. Distance to water source**
- 2. Which of the following is an example of a toxin?**
 - A. Ricin**
 - B. Brucellosis**
 - C. Cyanogen chloride**
 - D. Ebola**
- 3. Which of the following is NOT a category of Class I construction?**
 - A. Class I heavyweight**
 - B. Class I medium weight**
 - C. Class I lightweight**
 - D. Class II subclass**
- 4. Which of the following is NOT a consideration for hose line effectiveness?**
 - A. Length and type of hoseline**
 - B. Number of firefighters available**
 - C. Hydrant proximity and pressure**
 - D. Type of nozzle used**
- 5. What is the size of the furring strips that are often above the roof joists in older homes?**
 - A. 1x1 inches**
 - B. 1x2 inches**
 - C. 2x2 inches**
 - D. 2x4 inches**

- 6. How far can the stream from a Baker pipe, also known as a cellar pipe, reach?**
- A. 25 ft in one direction**
 - B. 50 ft in either one or two directions**
 - C. 75 ft in two directions**
 - D. 100 ft in one direction**
- 7. Phosgene oxime (CX) falls under which category of chemical agents?**
- A. Blister agent**
 - B. Nerve agent**
 - C. Incapacitating agent**
 - D. Choking agent**
- 8. Which of the following chemical agents is classified primarily as a blister agent?**
- A. Soman (GD)**
 - B. Phosgene oxime (CX)**
 - C. Methylphosphonate**
 - D. Mustard gas (H,HD,HN)**
- 9. Which method of cutting involves a high degree of precision to ensure safety and effectiveness?**
- A. Circular cut method**
 - B. Saw cut method**
 - C. 3 cut method**
 - D. Rough cut method**
- 10. If a fire has vented out one or two windows, how long has it typically been at flashover?**
- A. 1 to 3 minutes**
 - B. 1 to 5 minutes**
 - C. 5 to 10 minutes**
 - D. Greater than 10 minutes**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What is the primary consideration when determining the size of the pumping equipment?

- A. Capacity of water supply**
- B. Type of hose used**
- C. Fire load of the building**
- D. Distance to water source**

The primary consideration when determining the size of the pumping equipment is the capacity of the water supply. This is crucial because the pump needs to be able to deliver enough water at the necessary pressure to effectively combat a fire. If the water supply is limited, choosing a pump with inadequate capacity can result in ineffective firefighting efforts, potentially endangering lives and property. The pump must be matched to the available flow rate and pressure from the water supply to ensure that it can deliver an adequate and continuous supply to the firefighting operations. Understanding the capacity of the water source allows for a proper assessment of what equipment can be effectively used for a given incident. Other factors, such as the type of hose, fire load of the building, and distance to the water source, are important in operational planning and execution but are secondary to having a sufficient water supply. Without the right capacity from the water source, even the best hoses or most strategic firefighting tactics may not succeed.

2. Which of the following is an example of a toxin?

- A. Ricin**
- B. Brucellosis**
- C. Cyanogen chloride**
- D. Ebola**

Ricin is classified as a toxin because it is a naturally occurring protein that can be extracted from the seeds of the castor oil plant. It is highly potent and can inhibit protein synthesis in cells, leading to cell death. The severity of its effects depends on the dose and route of exposure, making it a concern for biological safety and terrorism. In contrast, Brucellosis is an infectious disease caused by bacteria, specifically the *Brucella* species, and does not fall under the category of toxins. Cyanogen chloride is a toxic compound but is a chemical warfare agent rather than a biological toxin. Similarly, Ebola refers to a viral disease caused by the Ebola virus, which is also not a toxin but an infectious agent that can cause severe hemorrhagic fever in humans. Thus, ricin is the clear example of a toxin among the given choices.

3. Which of the following is NOT a category of Class I construction?

- A. Class I heavyweight**
- B. Class I medium weight**
- C. Class I lightweight**
- D. Class II subclass**

Class I construction refers to a specific classification of buildings and structures that are typically characterized by their non-combustible materials and limited fire spread potential. This classification breaks down into various categories based on the weight and type of materials used in the structural components. Class I heavyweight, Class I medium weight, and Class I lightweight all describe different variations of Class I construction depending on the thickness and density of the materials used. These distinctions are crucial for understanding the building's fire performance and how it will behave in a fire situation. On the other hand, Class II subclass refers to a different classification of construction altogether. It indicates a building type that is not classified under Class I but rather suggests components capable of some combustibility or a mixture of both combustible and non-combustible materials. Thus, it does not fit within the categories defined under Class I construction. Understanding these classifications helps fire officers assess the fire risks and management tactics required for various building types.

4. Which of the following is NOT a consideration for hose line effectiveness?

- A. Length and type of hoseline**
- B. Number of firefighters available**
- C. Hydrant proximity and pressure**
- D. Type of nozzle used**

The effectiveness of a hose line in firefighting is influenced by several critical factors, and while the number of firefighters available can affect the overall operation, it does not directly impact the inherent effectiveness of the hose line itself. The length and type of hoseline are vital as they determine the flow capability and pressure loss over distance. Hydrant proximity and pressure are also essential, as they dictate how quickly and forcefully water can be delivered to the fire scene. The type of nozzle used is crucial because it affects the pattern and reach of the water stream, directly impacting how effectively the fire can be controlled and extinguished. Therefore, while adequate personnel are necessary for a successful operation, they are not a direct consideration regarding the hose line's capability itself.

5. What is the size of the furring strips that are often above the roof joists in older homes?

- A. 1x1 inches**
- B. 1x2 inches**
- C. 2x2 inches**
- D. 2x4 inches**

Furring strips are typically used in the construction of walls and roofs to create a level surface for attaching drywall or other materials. In older homes, the size of furring strips often found above the roof joists is 1x2 inches. This size provides adequate support while still being manageable for installation and renovation purposes. Using 1x2 inch strips allows for proper spacing and air circulation, which is crucial in preventing moisture problems that can lead to rot or other structural issues. This size strikes a balance between strength and weight, making it suitable for the applications found in older house designs. Alternatives like the larger sizes such as 2x2 or 2x4 would be more cumbersome and may not be necessary for the function that furring strips serve in this context.

6. How far can the stream from a Baker pipe, also known as a cellar pipe, reach?

- A. 25 ft in one direction**
- B. 50 ft in either one or two directions**
- C. 75 ft in two directions**
- D. 100 ft in one direction**

The Baker pipe, commonly referred to as a cellar pipe, is specifically designed for applying water in a controlled manner in difficult-to-access areas such as basements during firefighting operations. Its design and functionality allow it to effectively project water to considerable distances. When using the Baker pipe, it can typically achieve a reach of up to 50 feet in either one or two directions. This reach is vital for firefighting scenarios where large volumes of fire may be encountered deep within a structure, allowing firefighters to safely combat the flames without putting themselves at unnecessary risk. The option indicating 25 feet is insufficient as it does not encompass the full capability of the Baker pipe. While the ability to reach 75 or 100 feet may sound appealing, it exceeds the operational effectiveness and limitations of this particular tool, which is intended for targeted water application rather than long-range dispersion. Thus, the correct answer reflects the actual operational capability of the Baker pipe when deployed in firefighting situations, emphasizing its effective reach of 50 feet in appropriate conditions.

7. Phosgene oxime (CX) falls under which category of chemical agents?

- A. Blister agent**
- B. Nerve agent**
- C. Incapacitating agent**
- D. Choking agent**

Phosgene oxime (CX) is categorized as a blister agent due to its ability to cause severe chemical burns, particularly on the skin and in respiratory tissues. Blister agents are designed to damage human tissue, leading to painful blisters and significant long-term health effects. This characteristic aligns with the primary effects of phosgene oxime, which can lead to extensive suffering and require immediate medical intervention. In contrast, nerve agents disrupt the nervous system, incapacitating agents are typically intended to incapacitate without direct lethal effects, and choking agents primarily affect the respiratory system, causing symptoms such as coughing and choking sensations. Understanding these distinctions reinforces the classification of phosgene oxime as a blister agent, highlighting its detrimental impact on bodily tissues and the necessity for effective protective measures during potential exposure.

8. Which of the following chemical agents is classified primarily as a blister agent?

- A. Soman (GD)**
- B. Phosgene oxime (CX)**
- C. Methylphosphonate**
- D. Mustard gas (H,HD,HN)**

Mustard gas, known chemically as sulfur mustard and represented by symbols like H, HD, or HN, is classified primarily as a blister agent due to its severe effects on human skin and internal organs. When it comes into contact with skin or is inhaled, mustard gas causes painful blisters and damage to the respiratory tract, making it a potent chemical warfare agent. Its use has been historically documented in conflicts, where it was notorious for causing prolonged suffering due to its delayed effects and painful injuries. The other agents listed do not primarily function as blister agents. Soman, for instance, is classified as a nerve agent, which affects the nervous system rather than causing blistering. Phosgene oxime is also regarded as a vesicant but is less recognized compared to mustard gas, which is why it does not take precedence in classification. Methylphosphonate does not correspond to a blistering agent's characteristics but is related to nerve agents. Therefore, the classification of mustard gas as a blister agent is well-founded based on its severe dermatological and respiratory impacts.

9. Which method of cutting involves a high degree of precision to ensure safety and effectiveness?

- A. Circular cut method**
- B. Saw cut method**
- C. 3 cut method**
- D. Rough cut method**

The 3 cut method is often utilized in firefighting and rescue operations because it emphasizes precision, which is crucial for ensuring both safety and effectiveness during operations. This technique involves making three specific cuts—two horizontal and one vertical—that allow firefighters to control the situation better, especially when dealing with structural integrity in a fire. The precision of the 3 cut method is vital because it provides firefighters with more control over the material they are working with, reducing the risk of unintended collapse or injury. By following a structured approach, it allows for a systematic way of ventilating structures or creating openings without causing excessive damage or instability. In contrast, other methods may prioritize speed or simplicity over precision, which could compromise safety during critical operations. Therefore, the clarity and control provided by the 3 cut method make it the preferred choice for scenarios where precision is paramount.

10. If a fire has vented out one or two windows, how long has it typically been at flashover?

- A. 1 to 3 minutes**
- B. 1 to 5 minutes**
- C. 5 to 10 minutes**
- D. Greater than 10 minutes**

When a fire has vented out of one or two windows, it usually indicates that the fire has reached a significant level of development. At this stage, it is likely within the timeframe of 1 to 5 minutes post-ignition that flashover has occurred. Flashover is a rapid transition from a fire's growth phase to a fully developed stage, characterized by extreme heat and the simultaneous ignition of all combustible materials in the room. The progression of a fire follows a fairly predictable pattern, where the initial growth phase can lead to flashover if sufficient fuel and heated gases are present in the confined space. The presence of flames visible through one or two windows suggests that the fire has gained enough intensity and heat, reaching a temperature close to 1100 degrees Fahrenheit (593 degrees Celsius), which is typical for flashover to occur within this timeframe. Therefore, identifying the 1 to 5 minutes period as the critical time frame for flashover aligns with fire behavior patterns studied within the field, emphasizing the importance of rapid assessment and response during fire situations for saving lives and minimizing damage.