

Fire Tactics and Strategy Practice Exam (Sample)

Study Guide



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Questions

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- 1. What is the primary purpose of developing a written IAP for emergencies?**
 - A. To document activities.**
 - B. To provide clear guidance on operations.**
 - C. To facilitate communication among staff.**
 - D. To enhance safety measures.**
- 2. Hydraulic ventilation is achieved by utilizing hose-lines with a nozzle set on a fog pattern that should cover about what percent of the window or door opening?**
 - A. 70**
 - B. 80**
 - C. 90**
 - D. 100**
- 3. The most common type of new frame construction is known as what type of frame?**
 - A. Balloon frame**
 - B. Platform frame**
 - C. Heavy timber frame**
 - D. Lightweight frame**
- 4. Which term describes the state where materials are ready to ignite due to extreme heat during a fire condition?**
 - A. Overhaul**
 - B. Backdraft**
 - C. Flashover**
 - D. Firestorm**
- 5. National standards recommend a minimum staffing of _____ firefighters for an engine company in a career fire department.**
 - A. Two**
 - B. Three**
 - C. Four**
 - D. Five**

- 6. Which of the following represents the basic type of wall collapse?**
- A. Partial Collapse**
 - B. All of these**
 - C. Horizontal Collapse**
 - D. Vertical Collapse**
- 7. Who is responsible for conducting preplanning in fire services?**
- A. The fire chief**
 - B. All of these**
 - C. The firefighter**
 - D. The company officer**
- 8. Which chemical is known for being produced in large quantities in the U.S. and has links to leukemia?**
- A. Formaldehyde**
 - B. Benzene**
 - C. Acrylonitrile**
 - D. Vinyl Chloride**
- 9. What is the acceptable span of control within the ICS for personnel reporting to one individual?**
- A. 1-5**
 - B. 2-7**
 - C. 3-8**
 - D. 4-10**
- 10. Which of the following is NOT considered one of the four basic modes of fire attack for structural firefighting?**
- A. Interior**
 - B. Defensive**
 - C. Offensive**
 - D. Combination**

Answers

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

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Explanations

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1. What is the primary purpose of developing a written IAP for emergencies?

- A. To document activities.**
- B. To provide clear guidance on operations.**
- C. To facilitate communication among staff.**
- D. To enhance safety measures.**

The primary purpose of developing a written Incident Action Plan (IAP) for emergencies is to provide clear guidance on operations. An IAP serves as a blueprint for managing emergency situations by outlining the objectives, strategies, and resource allocations necessary to effectively respond to the incident. It ensures that all team members understand their roles, responsibilities, and the overall tactical approach for managing the emergency. By having a written IAP, the incident management team can structure their efforts in a way that promotes coordination and efficiency. Clear guidance is critical in high-pressure environments, where decisions must be made quickly and accurately to safeguard lives and property. The IAP helps mitigate confusion during incidents by establishing a unified strategy that all personnel can follow, ultimately leading to more successful outcomes. The other choices, while relevant to the incident management process, do not capture the core essence of the IAP's purpose. For instance, documentation is a byproduct of the IAP but not its primary function. Communication is improved as a result of having the IAP, but the main goal is guiding operational actions. Safety measures are enhanced through clear operational guidance but are not the sole focus of the IAP itself. Thus, the emphasis on providing clear operational guidance accurately reflects the central role of the I

2. Hydraulic ventilation is achieved by utilizing hose-lines with a nozzle set on a fog pattern that should cover about what percent of the window or door opening?

- A. 70**
- B. 80**
- C. 90**
- D. 100**

Hydraulic ventilation is a technique used by firefighters to clear smoke and heat from a structure following a fire. It employs water spray, typically with a fog nozzle, to create a pressure differential that draws smoke out of the building while replacing it with cooler air. When executing hydraulic ventilation, the fog pattern needs to adequately cover a significant portion of the window or door opening to be effective. Covering about 90 percent of the opening allows for maximum airflow and efficiency in pulling out the smoke and heat. This extensive coverage ensures that the water droplets can interact with the air, creating a well-defined pressure flow that enhances the ventilation process. By allowing 90 percent coverage, firefighters can effectively manage the smoke movement without creating unnecessary backflow or turbulence within the structure, which might hinder the evacuation of heat and smoke. Thus, focusing on such a large area bolsters the effectiveness of the hydraulic ventilation strategy, ensuring both safety and efficiency in firefighting operations.

3. The most common type of new frame construction is known as what type of frame?

A. Balloon frame

B. Platform frame

C. Heavy timber frame

D. Lightweight frame

The most common type of new frame construction is the platform frame. This method gained popularity due to its efficiency and the simplicity it offers in construction. In platform framing, the structure is built one floor at a time, where each floor serves as a platform for the next. This allows for easier handling of materials and provides a secure working platform for builders, which can greatly increase safety and efficiency on the job site. Furthermore, platform framing typically uses smaller, lighter components compared to other framing methods, which not only makes it more economical but also aligns well with modern building standards and practices. The method utilizes stud walls that are constructed and assembled on top of one another, allowing for a straightforward approach to adding additional floors and integrating other building systems such as plumbing and electrical wiring. This construction technique has become the preferred choice in the residential building sector, especially for single-family homes and multi-family units, due to its adaptability, speed of construction, and cost-effectiveness.

4. Which term describes the state where materials are ready to ignite due to extreme heat during a fire condition?

A. Overhaul

B. Backdraft

C. Flashover

D. Firestorm

The term that describes the state where materials are ready to ignite due to extreme heat during a fire condition is "flashover." This phenomenon occurs when the temperature in a fire environment rises high enough to ignite all combustible materials in the room simultaneously. As the heat builds, surfaces and materials such as furniture, carpets, or drapes can reach their ignition point, leading to a rapid and intense combustion event. Understanding flashover is crucial for firefighters as it indicates a significant increase in fire behavior and the potential for a rapidly spreading fire, which can create dangerous conditions. Firefighters are trained to recognize the signs of impending flashover to take preventive actions, such as venting or using water to cool gases and surfaces before reaching this critical point. This knowledge is essential for maintaining safety and effectively controlling fire situations.

5. National standards recommend a minimum staffing of _____ firefighters for an engine company in a career fire department.

- A. Two**
- B. Three**
- C. Four**
- D. Five**

National standards recommend a minimum staffing of four firefighters for an engine company in a career fire department because this number enables a safer and more efficient operation during fire suppression activities. Having four firefighters allows for a division of responsibilities, ensuring that one or two can control the hose line, while others manage ventilation, search and rescue operations, or operate the pump. This staffing level enhances not only the effectiveness of firefighting efforts but also the safety of the personnel involved. It adheres to safety guidelines and ensures that adequate resources are available to handle critical tasks simultaneously, which is vital in emergency situations. This standard not only accounts for effective fire suppression but also for the rapid intervention needed in case of emergencies or unforeseen complications on the scene.

6. Which of the following represents the basic type of wall collapse?

- A. Partial Collapse**
- B. All of these**
- C. Horizontal Collapse**
- D. Vertical Collapse**

The correct choice is that all options listed represent basic types of wall collapse. Understanding each type provides insight into the structural behaviors and risks associated with collapsing walls during fire events. A partial collapse occurs when only a portion of the wall fails, which can create a hazard for firefighters and occupants, as the remaining structure may be unstable. This type of collapse often results from localized damage or excessive loads on specific sections of a wall, leading to instability. Horizontal collapse refers to the outward movement of wall sections, typically caused by lateral forces such as fire or explosion. This kind of collapse can result in debris falling away from the building, posing serious risks to individuals nearby. Vertical collapse takes place when the wall drops straight downward, usually due to the failure of structural supports or the weakening of materials from heat exposure. This type of collapse can create significant hazards, as the fallen wall may obstruct escape routes or access for firefighting efforts. Since all of these collapse types can significantly affect the safety protocols for firefighting and rescue operations, recognizing each type is crucial for effective incident response and management. Thus, the option indicating that all represent basic types of wall collapse accurately reflects the realities of structural integrity in fire scenarios.

7. Who is responsible for conducting preplanning in fire services?

- A. The fire chief**
- B. All of these**
- C. The firefighter**
- D. The company officer**

In fire services, preplanning is a crucial aspect of ensuring effective emergency response and fire prevention. The responsibility for conducting preplanning does not rest solely on one individual but is a collective effort involving various ranks and roles within the fire department. The fire chief plays a strategic role by overseeing the entire department's preplanning initiatives, setting policies, and ensuring resources are allocated effectively. Company officers are directly involved in operational readiness, conducting site visits, and developing plans specific to their response areas. Firefighters contribute valuable insights and local knowledge during these planning exercises and may also participate in the execution of preplans during training and drills. Thus, preplanning is a collaborative process that leverages the expertise and insights of everyone in the department, making the idea that "all of these" individuals are responsible for conducting preplanning the accurate choice. This approach ensures that all perspectives are considered, leading to more comprehensive and effective emergency response strategies.

8. Which chemical is known for being produced in large quantities in the U.S. and has links to leukemia?

- A. Formaldehyde**
- B. Benzene**
- C. Acrylonitrile**
- D. Vinyl Chloride**

Benzene is known for being produced in large quantities in the U.S. and has significant links to leukemia, particularly acute myeloid leukemia (AML). This correlation is primarily due to benzene's status as a well-documented carcinogen, with multiple studies establishing exposure to benzene as a risk factor for developing various forms of blood cancer. Benzene is a common industrial chemical found in products such as gasoline, as well as in the manufacturing of plastics and synthetic fibers. The production levels in the U.S. are quite substantial, with benzene utilized extensively in chemical manufacturing and as a solvent in the petrochemical industry. Its high production volume increases the likelihood of exposure for workers in relevant industries and populations living near industrial sites. Other chemicals mentioned, while also hazardous and linked to certain health risks, do not have the same level of direct correlation with leukemia as benzene does. For example, formaldehyde is known for its association with nasopharyngeal cancer and other health issues, acrylonitrile is associated with various forms of cancer but is not primarily linked to leukemia, and vinyl chloride is mainly connected to liver cancer. Thus, benzene stands out for its substantial production in the U.S. and its strong ties to leukemia.

9. What is the acceptable span of control within the ICS for personnel reporting to one individual?

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

In the Incident Command System (ICS), the concept of span of control is crucial for effective management and resource allocation during emergency response operations. The acceptable span of control is defined as the number of subordinates that one individual can effectively supervise, ensuring that communication remains clear and manageable. The span of control is typically recommended to be between 3 to 7 personnel for each supervisor. This range allows for sufficient oversight, effective communication, and the ability to provide guidance and support to the subordinates without overwhelming the supervisor. Choosing a span of control within this range, as reflected in the correct answer, helps maintain operational effectiveness, promotes accountability, and ensures that team members receive adequate direction and resources to achieve their tasks. This structure is particularly important in high-stress situations, such as firefighting and incident management, where clarity of command can directly influence outcomes. By adhering to the established range of 2 to 7, the ICS allows for flexibility while recognizing the importance of not exceeding manageable limits, thus promoting efficiency in emergency response.

10. Which of the following is NOT considered one of the four basic modes of fire attack for structural firefighting?

- A. Interior**
- B. Defensive
- C. Offensive
- D. Combination

In the context of structural firefighting, the four basic modes of fire attack typically include defensive, offensive, combination, and sometimes interior as a strategy. However, the term "interior" is not widely recognized as a distinct mode in the same way that the others are framed. Defensive attack focuses on protecting exposures and stopping fire spread, often used when the fire is too dangerous to engage directly or when there's a significant risk to firefighters. Offensive attack refers to the direct engagement with the fire, typically involving entry into the structure to extinguish the fire at its source. Combination involves using both offensive and defensive tactics depending on the situation, allowing flexibility based on the evolving conditions of the fire. Since "interior" isn't categorized among these widely accepted modes, it is recognized as not being one of the four basic fire attack modes. Understanding these tactics and their definitions is essential for effective firefighting and emphasizes the structured approach that firefighters take in addressing various situations.