

Texas Type A - Fixed System License Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. What is the recommended testing pressure for low-pressure system hoses?**
 - A. 1600 psi**
 - B. 900 psi**
 - C. 1200 psi**
 - D. 1100 psi**
- 2. What are "class K" extinguishers primarily used for?**
 - A. For flammable liquids**
 - B. For electrical fires**
 - C. For fires involving cooking oils and fats**
 - D. For general waste fires**
- 3. Which of the following is not a type of automatic fire extinguishing system?**
 - A. Water-based systems**
 - B. Wet chemical systems**
 - C. Portable extinguisher systems**
 - D. Clean agent systems**
- 4. How often should hoses on Halon systems be tested?**
 - A. Every five years**
 - B. Monthly**
 - C. Annually for damage**
 - D. After every system discharge**
- 5. What does "fire-resistive construction" aim to achieve?**
 - A. To create a more aesthetic building design**
 - B. To withstand fire and prevent its spread**
 - C. To reduce construction costs**
 - D. To enhance energy efficiency**
- 6. What does fill density refer to in fire protection systems?**
 - A. The volume of extinguishing agent per unit volume of container**
 - B. The weight of the system components**
 - C. The total area protected by the fire suppression system**
 - D. The pressure inside the tank**

- 7. What does a total flooding system do?**
- A. Discharges foam to suppress fires**
 - B. Fills an enclosed space with carbon dioxide to meet the proper concentration**
 - C. Active monitoring of air quality**
 - D. Automatically extinguishes fires using water mist**
- 8. What was a key policy pushed by Andrew Jackson during his presidency?**
- A. End of slavery**
 - B. Indian Removal Act**
 - C. Women's Suffrage**
 - D. Prohibition**
- 9. Are class 150 lb cast iron fittings allowed in a Halon 1301 system?**
- A. Yes, they are permitted**
 - B. No, they are not permitted**
 - C. Only in certain conditions**
 - D. Only for temporary setups**
- 10. What is created through passive fire protection in building design?**
- A. Fire extinguishing agents**
 - B. Open pathways for smoke**
 - C. Barriers to contain fire and smoke**
 - D. Enhanced fire speed**

Answers

SAMPLE

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

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Explanations

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1. What is the recommended testing pressure for low-pressure system hoses?

- A. 1600 psi**
- B. 900 psi**
- C. 1200 psi**
- D. 1100 psi**

The recommended testing pressure for low-pressure system hoses is vital to ensure the safety and reliability of the system. In industry standards, low-pressure hoses are typically tested at a pressure of 150% of their working pressure, but there is a specific recommended testing pressure in practice. Testing at 900 psi aligns with established safety protocols for low-pressure systems. This ensures that the hoses can withstand conditions that they may be subjected to during regular operations without failing. This specific pressure is designed to assess the integrity and durability of the hoses, which is crucial for preventing leaks or failures that could lead to operational hazards. Choosing a testing pressure that is too high could risk damaging the hose and compromising its effectiveness, while too low a pressure may not appropriately stress the material to reveal potential weaknesses. Thus, utilizing 900 psi as the recommended testing pressure serves as a practical and safe method for evaluating low-pressure system hoses.

2. What are "class K" extinguishers primarily used for?

- A. For flammable liquids**
- B. For electrical fires**
- C. For fires involving cooking oils and fats**
- D. For general waste fires**

Class K extinguishers are specifically designed to combat fires that involve cooking oils and fats, particularly in commercial kitchens where such materials are prevalent. The unique composition of cooking oils and fats poses distinct fire hazards, and using standard extinguishing agents can sometimes exacerbate the situation. Class K extinguishing agents utilize a form of wet chemical that can effectively cool and smother these types of fires while also preventing re-ignition. The capability of these extinguishers to break down the burning fats and oils makes them essential for ensuring safety in environments where deep fryers and other cooking equipment are used. Understanding the specific application of Class K extinguishers highlights the importance of selecting the right firefighting equipment for different fire risks, which is critical for fire safety compliance in commercial kitchens.

3. Which of the following is not a type of automatic fire extinguishing system?

- A. Water-based systems**
- B. Wet chemical systems**
- C. Portable extinguisher systems**
- D. Clean agent systems**

The selection of portable extinguisher systems as the answer is correct because these systems are not classified as automatic fire extinguishing systems. Automatic fire extinguishing systems are designed to activate and suppress fires without human intervention, typically using mechanisms that respond to heat, smoke, or flames. In contrast, portable extinguishers require manual operation by a trained individual to be effective. They are intended for quick response to small fires, whereas automatic systems are integrated into buildings and designed to activate independently when certain criteria are met. Water-based systems, wet chemical systems, and clean agent systems are all considered automatic because they automatically release extinguishing agents to control or extinguish a fire once a certain threshold is reached. These systems are crucial in providing a reliable and immediate response to fire hazards in various environments, thus ensuring safety and minimizing damage.

4. How often should hoses on Halon systems be tested?

- A. Every five years**
- B. Monthly**
- C. Annually for damage**
- D. After every system discharge**

Hoses on Halon systems should be tested annually for damage to ensure the integrity and functionality of the system. Regular annual inspections are crucial for identifying wear, corrosion, or other forms of degradation that could compromise the system's performance in the event of a fire. This routine check helps maintain the safety and reliability of the Halon system, as damaged hoses could prevent fire suppression agents from being effectively delivered when needed. Testing hoses only on discharge or every five years may not provide sufficient oversight for potential problems that could develop at any time. Monthly checks are typically more frequent than necessary for hoses, which can lead to unnecessary labor and costs without significantly increasing safety. Hence, an annual inspection aligns with best practices for maintaining fire protection systems while allowing for practical scheduling and resource management.

5. What does "fire-resistive construction" aim to achieve?

- A. To create a more aesthetic building design**
- B. To withstand fire and prevent its spread**
- C. To reduce construction costs**
- D. To enhance energy efficiency**

The aim of fire-resistive construction is to withstand fire and prevent its spread within a building. This type of construction involves using materials and design techniques that can endure high temperatures and flames, thereby protecting the structural integrity of the building and the safety of its occupants. By employing fire-resistive materials such as concrete, masonry, and certain types of steel, structures can better withstand the effects of fire for a specified period. This helps to contain the fire to the area of origin, providing vital time for evacuation and potential intervention by firefighting services, which ultimately enhances safety and minimizes damage. In contrast, the other options focus on different aspects of building design and construction. While aesthetic design, cost reduction, and energy efficiency are important factors in construction, they do not directly relate to the primary function of fire-resistive construction, which is aimed specifically at fire safety and protection.

6. What does fill density refer to in fire protection systems?

- A. The volume of extinguishing agent per unit volume of container**
- B. The weight of the system components**
- C. The total area protected by the fire suppression system**
- D. The pressure inside the tank**

Fill density in fire protection systems refers to the volume of extinguishing agent per unit volume of the container. This measurement is crucial because it determines how much of the agent is available for effective fire suppression. A higher fill density can indicate a more efficient system capable of discharging a greater volume of extinguishing agent in a shorter amount of time, which can significantly improve the effectiveness of the fire extinguishing effort. The fill density is essential for ensuring that the system is designed to meet fire protection standards and can effectively combat the types of fires anticipated for the specific application. Understanding fill density helps professionals assess whether the system meets the required specifications and can perform optimally during a fire emergency.

7. What does a total flooding system do?

- A. Discharges foam to suppress fires
- B. Fills an enclosed space with carbon dioxide to meet the proper concentration**
- C. Active monitoring of air quality
- D. Automatically extinguishes fires using water mist

A total flooding system is designed to fill an enclosed space with a fire-suppressing agent, such as carbon dioxide, to achieve the proper concentration needed for effective fire suppression. When the system is activated, it releases carbon dioxide throughout the area to reduce the oxygen level, which is essential for combustion. This method is particularly effective in protecting equipment and minimizing damage, as it can extinguish fires without causing significant water damage, which can be an issue with traditional water-based systems. In environments where sensitive equipment or materials are stored, having a total flooding system can effectively suppress a fire while ensuring minimal disruption to operations. This is especially valuable in areas where water may not be suitable for fire suppression, or where the presence of water could exacerbate the situation. Thus, the total flooding system's primary function is to create a controlled environment that lowers the available oxygen for combustion, leading to the extinguishment of the fire.

8. What was a key policy pushed by Andrew Jackson during his presidency?

- A. End of slavery
- B. Indian Removal Act**
- C. Women's Suffrage
- D. Prohibition

The Indian Removal Act is a significant policy associated with Andrew Jackson's presidency, enacted in 1830. This legislation was grounded in the belief of Manifest Destiny, which held that American settlers were destined to expand across the continent. The Act authorized the federal government to negotiate treaties to remove Native American tribes from their ancestral lands in the southeastern United States and relocate them to designated "Indian Territory" west of the Mississippi River. Jackson and his administration argued that this removal was necessary for the economic development of the United States, enabling the expansion of agriculture and settlement in the South. The consequences were catastrophic for many Native American communities, leading to forced relocations and widespread suffering, notably epitomized by the Trail of Tears—a series of forced marches that resulted in significant loss of life and culture among the displaced tribes. This policy reflects the broader historical themes of American expansionism and the complex and often tragic relationships between the U.S. government and Native American peoples during this period.

9. Are class 150 lb cast iron fittings allowed in a Halon 1301 system?

- A. Yes, they are permitted**
- B. No, they are not permitted**
- C. Only in certain conditions**
- D. Only for temporary setups**

In a Halon 1301 system, class 150 lb cast iron fittings are not permitted due to the specific materials and design constraints required for fire suppression systems. Halon systems are designed to operate under specific pressure and temperature conditions, and the materials used in their construction must be compatible with these operational requirements. Using cast iron fittings might introduce the risk of structural integrity issues, especially under high-pressure conditions, since cast iron can be brittle and prone to cracking or failure. Typically, materials that are compliant with NFPA (National Fire Protection Association) standards and possess higher safety ratings are mandated for use in these types of fire suppression systems. Hence, the answer reflects adherence to safety standards necessary for effective and reliable operation of Halon systems.

10. What is created through passive fire protection in building design?

- A. Fire extinguishing agents**
- B. Open pathways for smoke**
- C. Barriers to contain fire and smoke**
- D. Enhanced fire speed**

Passive fire protection in building design refers to the use of inherent elements of the structure to help prevent the spread of fire and smoke. This is achieved through the installation of various barriers, such as walls, floors, and ceilings, which are specifically designed and constructed to resist fire for a designated period. These barriers are critical because they help contain a fire within a specific area, preventing it from spreading to other parts of the building and thereby enhancing safety for occupants and protecting property. Unlike other options, which may focus on fire suppression or unintended consequences (such as pathways for smoke), the primary purpose of passive fire protection is not to extinguish fire or enhance its movement but rather to limit its effects and grab time to allow for evacuation or intervention. By effectively containing both fire and smoke, passive fire protection plays a crucial role in overall fire safety strategy within buildings.