

Maine Journeyman Oil Fuel Board Rules Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. In a fuel storage system with three or more tanks, what must each appliance line have?**
 - A. A common shutoff valve**
 - B. Own shutoff valve**
 - C. A shared gauge device**
 - D. A pressure relief valve**
- 2. A tank with a capacity of 10 and 330 gallons, having two bottom openings for fuel supply, must be arranged in what manner?**
 - A. Pitched toward opening with slope of not less than 1/4 in**
 - B. Level with the ground**
 - C. Pitched away from the opening**
 - D. Vertical alignment only**
- 3. Which material is required for above ground fill and vent piping?**
 - A. Schedule 40 steel**
 - B. Schedule 80 plastic**
 - C. Schedule 40 brass**
 - D. Schedule 20 copper**
- 4. What does complete combustion of oil primarily depend on?**
 - A. Quality of fuel**
 - B. Amount of primary air**
 - C. Type of burner used**
 - D. Balanced air supply**
- 5. A chimney is not permitted to pass through which of the following?**
 - A. A wall**
 - B. A floor or a ceiling**
 - C. A window**
 - D. A roof**

- 6. How far must a TYPE L venting system exit above the highest point of a roof?**
- A. 1 foot**
 - B. 2 feet**
 - C. 3 feet**
 - D. 4 feet**
- 7. A down-flow furnace must include temperature control to limit outlet air to what maximum temperature?**
- A. 150°F**
 - B. 175°F**
 - C. 200°F**
 - D. 225°F**
- 8. How far should a service switch be from the burner?**
- A. More than five feet**
 - B. Within arms reach when observing the flame**
 - C. At least ten feet away for safety**
 - D. Directly next to the burner**
- 9. The fuel pipe shall be connected to the top of the tank except for which circumstances?**
- A. Tanks of 500 gallons or more**
 - B. Tanks with cross connections**
 - C. Tanks of 330 gallons or less**
 - D. Tanks with visible damage**
- 10. Which type of fitting is prohibited for use in fuel systems?**
- A. Aluminum**
 - B. Brass**
 - C. Cast Iron**
 - D. Steel**

Answers

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

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Explanations

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1. In a fuel storage system with three or more tanks, what must each appliance line have?

- A. A common shutoff valve**
- B. Own shutoff valve**
- C. A shared gauge device**
- D. A pressure relief valve**

In a fuel storage system that includes three or more tanks, each appliance line must have its own shutoff valve. This requirement is crucial for safety and operational efficiency. Having individual shutoff valves allows for isolation of specific tanks or lines for maintenance or in case of a malfunction. It ensures that if there is an issue with one line, it can be addressed without affecting the others, thereby minimizing risks such as leaks or spills. The presence of individual shutoff valves also promotes compliance with industry regulations and standards, which often mandate such safety measures to protect both the equipment and the environment. In the event of an emergency, being able to quickly shut off fuel flow from a specific source is essential for containment and response. Furthermore, while shared gauges and pressure relief valves are important components in a fuel storage system, they do not directly address the need for isolating appliance lines with independent controls. The common shutoff valve option does not meet the requirements as effectively, as it would not provide the necessary level of control for each independent line.

2. A tank with a capacity of 10 and 330 gallons, having two bottom openings for fuel supply, must be arranged in what manner?

- A. Pitched toward opening with slope of not less than 1/4 in**
- B. Level with the ground**
- C. Pitched away from the opening**
- D. Vertical alignment only**

Having a tank that is pitched toward the opening with a slope of not less than 1/4 inch is essential for ensuring proper drainage of fuel and preventing sediment accumulation at the bottom of the tank. This configuration helps direct any residual fuel towards the supply openings, improving the efficiency of fuel extraction and minimizing the potential for clogging or contamination. When a tank has multiple bottom openings, proper sloping towards the supply lines allows for effective utilization of the entire tank capacity, ensuring that fuel can flow out smoothly without stagnation. Additionally, it reduces the risks of hazards like fuel overflow or leaks due to the buildup of fluids in areas where they cannot freely drain. Positioning the tank level with the ground or pitching it away from the opening can lead to pooling of fuel and sediment, which could hinder fuel delivery and potentially damage the equipment or create safety hazards. Vertical alignment alone does not address the need for effective drainage, which is critical for the operational integrity of the tank.

3. Which material is required for above ground fill and vent piping?

- A. Schedule 40 steel**
- B. Schedule 80 plastic**
- C. Schedule 40 brass**
- D. Schedule 20 copper**

The requirement for above ground fill and vent piping is based on the need for durability, strength, and resistance to various conditions such as pressure and environmental factors. Schedule 40 steel is a reliable choice for this purpose because it offers adequate wall thickness to withstand the pressures typically experienced in oil fuel systems while also being robust enough to handle potential impacts and environmental exposure without degrading. Additionally, steel piping is less susceptible to damage from external forces and environmental degradation compared to other materials. Steel also has a proven track record in fuel piping applications, ensuring that it can effectively handle the necessary operational demands without compromising safety or functionality. Other materials listed, while they may have specific applications, do not meet the same criteria as Schedule 40 steel for this particular use case. The options that involve plastic, brass, or copper may not provide the same level of structural integrity, especially in pressure situations or where physical protections against impacts and environmental influences are necessary. This makes Schedule 40 steel the most suitable option for above ground fill and vent piping in the context of the Maine Journeyman Oil Fuel Board standards.

4. What does complete combustion of oil primarily depend on?

- A. Quality of fuel**
- B. Amount of primary air**
- C. Type of burner used**
- D. Balanced air supply**

Complete combustion of oil is crucial for efficiency and safety in heating systems. It primarily relies on having a balanced air supply, which ensures that the right mix of fuel and oxygen is present for efficient combustion. When air and fuel are mixed in the correct proportions, the combustion process can fully utilize the fuel, leading to a release of maximum energy without producing unburned fuel or harmful emissions. A balanced air supply allows for optimal combustion, minimizing pollutants like carbon monoxide and maximizing the heating output. If the supply of air is insufficient or excessive, it can lead to incomplete combustion, resulting in wasted fuel and increased emissions. While the quality of fuel, the amount of primary air, and the type of burner can all impact combustion efficiency, they are factors that contribute to or influence the need for a balanced air supply. Therefore, achieving a properly balanced air supply is essential for ensuring that the combustion process is effective and complete.

5. A chimney is not permitted to pass through which of the following?

A. A wall

B. A floor or a ceiling

C. A window

D. A roof

The correct answer highlights the specific safety and construction regulations concerning chimney installations. When examining the guidelines, it becomes clear that a chimney is not permitted to pass through a floor or ceiling due to the risk of fire hazards and structural integrity concerns. Chimneys must be positioned in a way that reduces the likelihood of flammable materials igniting due to heat transfer. If a chimney were to pass through a floor or ceiling, there's an increased risk that heat and sparks could escape and ignite surrounding materials. This practice is implemented to ensure greater protection for the building's interior and the occupants. In contrast, chimneys can go through walls (following specific regulations), as well as through roofs, since they are designed to vent exhaust safely and effectively. Passing through a window is not allowed, but this is primarily for functionality and ensuring that the chimney operates in its intended capacity.

6. How far must a TYPE L venting system exit above the highest point of a roof?

A. 1 foot

B. 2 feet

C. 3 feet

D. 4 feet

The requirement for a Type L venting system to exit above the highest point of a roof by 2 feet is based on safety and performance standards designed to ensure proper ventilation for combustion appliances. This rule helps prevent the backflow of exhaust gases and reduces the risk of harmful emissions entering the building or creating hazardous conditions. By specifying a 2-foot minimum height, the standard takes into account factors such as wind patterns and the potential for snow accumulation, which can affect the dispersion of vented gases. Ensuring the vent extends adequately above the roofline minimizes the chance of interference from roof obstructions and maximizes the efficiency of the venting system. In contrast, options that suggest a different height either do not provide sufficient clearance to achieve these safety measures or may not support optimal venting performance, which could lead to the combustion appliances not operating as intended.

7. A down-flow furnace must include temperature control to limit outlet air to what maximum temperature?

- A. 150°F**
- B. 175°F**
- C. 200°F**
- D. 225°F**

The correct answer is based on the guidelines established for down-flow furnaces. For safety and efficiency, a down-flow furnace is designed to limit the temperature of the air that it delivers to the living space. The maximum outlet air temperature set at 200°F is a standard that ensures not only the comfort of the occupants but also protects the furnace system and associated ductwork from overheating, which could lead to damage or hazardous conditions. Maintaining this maximum temperature helps to prevent burns or discomfort for users and avoids unnecessary stress on the heating system components. Standards such as these are put in place to ensure that any heating system operates safely and effectively within its designed parameters. In this case, limiting the outlet air temperature to 200°F helps balance performance and safety, making it the appropriate temperature control standard.

8. How far should a service switch be from the burner?

- A. More than five feet**
- B. Within arms reach when observing the flame**
- C. At least ten feet away for safety**
- D. Directly next to the burner**

The correct answer indicates that the service switch should be within arm's reach while observing the flame. This positioning is crucial for safety and convenience. It allows the technician or operator to easily turn off the burner if necessary, ensuring they can quickly respond to any unsafe conditions, such as an irregular flame or malfunction. Being within arm's reach also facilitates monitoring of the flame without the need to move away from the burner, which can be particularly important during the initial startup or troubleshooting process. This practice aligns with safety standards in the industry, emphasizing the importance of having control over the equipment while still being able to actively observe its operation. The other options, while they offer varying distances, do not adequately balance safety with the practical need for close observation during operation.

9. The fuel pipe shall be connected to the top of the tank except for which circumstances?

- A. Tanks of 500 gallons or more**
- B. Tanks with cross connections**
- C. Tanks of 330 gallons or less**
- D. Tanks with visible damage**

Connecting the fuel pipe to the top of the tank is generally the standard practice for most fuel tanks, as it helps ensure proper fuel delivery and minimizes the risk of leaks or other issues associated with bottom connections. However, for tanks of 330 gallons or less, the regulations may allow for exceptions due to the design and operational considerations of smaller tanks. These tanks can be configured differently due to their capacity, allowing for connections that may not strictly adhere to the typical top connection preference. For smaller tanks, there may also be specific industry practices or regulations designed to optimize their function while still adhering to safety standards. This flexibility in the connections helps accommodate the varying designs and uses of smaller fuel tanks.

10. Which type of fitting is prohibited for use in fuel systems?

- A. Aluminum**
- B. Brass**
- C. Cast Iron**
- D. Steel**

Cast iron fittings are prohibited for use in fuel systems due to their brittleness and the potential for failure under stress or when subjected to high-pressure conditions. These characteristics can lead to leaks or ruptures, which pose serious safety hazards in a system that handles flammable fuels. In contrast, materials like aluminum, brass, and steel are generally considered more reliable and are often used in fuel systems. They have better resilience and can withstand the corrosive nature of various fuels, making them safer choices for maintaining the integrity of fuel lines and fittings. The prohibition of cast iron is primarily a safety measure to ensure the reliability and longevity of fuel systems.