

Alabama Gas Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Questions

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- 1. What must be obtained before making connections from energy sources to a regulated building?**
 - A. Inspection approval**
 - B. Loan approval**
 - C. Authorization by the code official**
 - D. Endorsement from the contractor**
- 2. Where should a drip not be located if it is subject to freezing?**
 - A. Above ground level**
 - B. Near a heater**
 - C. In a basement area**
 - D. In exposed areas**
- 3. What must be included on the permanent appliance nameplate?**
 - A. Manufacturer details**
 - B. Electrical specifications**
 - C. Minimum clearances**
 - D. Installation instructions**
- 4. Unless specified otherwise by the appliance manufacturer, what is the maximum permitted length for a clothes dryer exhaust duct?**
 - A. 25 feet**
 - B. 30 feet**
 - C. 35 feet**
 - D. 40 feet**
- 5. What is the minimum outside ventilation air supply rate required for a recirculating direct fired industrial heater?**
 - A. 2.5 com per 1,000 but/h**
 - B. 4.0 com per 1,000 but/h**
 - C. 6.5 com per 1,000 but/h**
 - D. 12.5 com per 1,000 but/h**

- 6. What minimum clearance should be maintained between the soil and an appliance in pits or excavations?**
- A. 8 inches**
 - B. 10 inches**
 - C. 12 inches**
 - D. 15 inches**
- 7. Rooms containing appliances in repair garages must be separated from repair areas by at least how many hours of fire-resistant construction?**
- A. 1 hour**
 - B. 2 hours**
 - C. 3 hours**
 - D. 4 hours**
- 8. The connections between potable water supply and building drainage systems and appliances must comply with which code?**
- A. Electrical Code**
 - B. Mechanical Code**
 - C. Building Code**
 - D. Plumbing Code**
- 9. What does ASME B16.33 encompass regarding gas shutoff valves?**
- A. Safety standards**
 - B. Conformance standards**
 - C. Material specifications**
 - D. Pressure ratings**
- 10. For non-steel piping exposed to view, it must be identified by a yellow label marked "gas" at intervals not exceeding how many feet?**
- A. 3 feet**
 - B. 5 feet**
 - C. 10 feet**
 - D. 15 feet**

Answers

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

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Explanations

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1. What must be obtained before making connections from energy sources to a regulated building?

- A. Inspection approval**
- B. Loan approval**
- C. Authorization by the code official**
- D. Endorsement from the contractor**

Before making connections from energy sources to a regulated building, it is essential to obtain authorization from the code official. This requirement is in place to ensure that all installations comply with local safety regulations, building codes, and standards meant to protect the public and the property. The code official's authorization indicates that the necessary inspections have been carried out and that the proposed connections meet all required specifications. This step is crucial to prevent hazards associated with gas or other energy sources that could pose risks if not managed correctly. Approval from the code official helps to maintain the integrity of the building and the safety of its occupants.

2. Where should a drip not be located if it is subject to freezing?

- A. Above ground level**
- B. Near a heater**
- C. In a basement area**
- D. In exposed areas**

A drip should not be located in exposed areas if it is subject to freezing because these locations are most vulnerable to temperature drops, which can lead to freezing conditions. Exposed areas, such as outside walls or open spaces, lack protection from cold weather, making them more likely to experience the chill that can freeze the liquid within the piping system. Ensuring that drips are situated in more insulated or sheltered locations helps maintain a consistent temperature and reduces the risk of freezing, which can lead to costly repairs and dangerous situations. In contrast, locations like above ground level, near a heater, or in a basement area generally offer some level of protection from freezing temperatures. For instance, being near a heater can provide warmth, while basements are often less exposed to outdoor temperatures. However, exposed areas lack such benefits, making them the least suitable choice for placing a drip during freezing conditions.

3. What must be included on the permanent appliance nameplate?

- A. Manufacturer details**
- B. Electrical specifications**
- C. Minimum clearances**
- D. Installation instructions**

The permanent appliance nameplate is a crucial component that provides essential information about the appliance it is attached to. Among the various details that may be listed, minimum clearances are particularly important and must always be included. These clearances refer to the safe distances that should be maintained around the appliance to prevent fire hazards and ensure safe operation. They are critical for compliance with safety codes and regulations, ensuring that the appliance operates without risk of overheating or fire due to nearby combustible materials. While manufacturer details, electrical specifications, and installation instructions are also important, they are not universally required on the nameplate itself. Instead, such information may be found in the accompanying documentation or manuals, which are often provided separately. The primary function of the nameplate is to convey necessary safety information at a glance, with minimum clearances being vital for the continued safety and efficiency of the appliance in its operating environment.

4. Unless specified otherwise by the appliance manufacturer, what is the maximum permitted length for a clothes dryer exhaust duct?

- A. 25 feet**
- B. 30 feet**
- C. 35 feet**
- D. 40 feet**

The maximum permitted length for a clothes dryer exhaust duct, unless specified otherwise by the appliance manufacturer, is 35 feet. This standard is based on the need to ensure proper ventilation and airflow for the dryer to operate efficiently and safely. A long exhaust duct can lead to increased resistance, which may result in decreased airflow and potentially cause the dryer to overheat or become less effective at removing moisture from clothes. When setting regulations for exhaust ducts, considerations include the diameter of the duct, any bends or turns in the duct, and the overall material used for construction, as these factors can all contribute to airflow performance. Therefore, keeping the length of the exhaust duct to a maximum of 35 feet helps maintain a balance between effective venting and the operational efficiency of the dryer.

5. What is the minimum outside ventilation air supply rate required for a recirculating direct fired industrial heater?

A. 2.5 com per 1,000 but/h

B. 4.0 com per 1,000 but/h

C. 6.5 com per 1,000 but/h

D. 12.5 com per 1,000 but/h

The minimum outside ventilation air supply rate required for a recirculating direct-fired industrial heater is 4.0 cubic feet of outside air per 1,000 British thermal units per hour (com per 1,000 but/h). This specification is based on ensuring adequate combustion air for the heater, which is essential for maintaining safe operation and efficient fuel combustion. Proper ventilation helps to mitigate the risk of carbon monoxide buildup and ensures the heater operates within the designed performance parameters, contributing to overall safety and efficiency. Ensuring that the correct volume of outside air is supplied helps maintain the right balance for combustion and prevents hazards associated with inadequate ventilation. Other rates listed would either not provide sufficient airflow for safe operation or are not aligned with standard practices. Therefore, 4.0 com per 1,000 but/h is determined to be the optimal requirement for effective operation of these heating systems.

6. What minimum clearance should be maintained between the soil and an appliance in pits or excavations?

A. 8 inches

B. 10 inches

C. 12 inches

D. 15 inches

Maintaining a minimum clearance of 12 inches between the soil and an appliance in pits or excavations is essential for safety and operational efficiency. This distance helps to ensure that appliances are not in direct contact with moist or unstable soil, which can lead to a variety of issues such as corrosion, electrical hazards, and impaired appliance function. Additionally, adequate clearance allows for proper ventilation and access for maintenance, reducing the risk of accidents or malfunctions. Proper spacing also complies with safety codes and regulations in the gas industry, promoting safe installation practices. Having this minimum clearance therefore ensures that appliances operate effectively and reduces risks associated with potential water accumulation or soil compaction around the unit.

7. Rooms containing appliances in repair garages must be separated from repair areas by at least how many hours of fire-resistant construction?

A. 1 hour

B. 2 hours

C. 3 hours

D. 4 hours

In repair garages where appliances are addressed, the requirement is to have a separation between appliance areas and the repair areas to prevent the spread of fire and ensure safety. The correct answer of one hour of fire-resistant construction meets the generally accepted safety standards for such facilities. This one-hour fire-resistance rating provides a moderate degree of protection, allowing occupants time to evacuate in the event of a fire and minimizing damage. One hour is typically considered sufficient for areas that may not contain highly flammable materials or hazardous operations. It strikes a balance between safety needs and cost-effectiveness for compliance in the context of a garage. More extensive fire resistance ratings, like two hours or higher, are typically reserved for areas where there is a higher risk of fire escalation or where more hazardous materials are present.

8. The connections between potable water supply and building drainage systems and appliances must comply with which code?

A. Electrical Code

B. Mechanical Code

C. Building Code

D. Plumbing Code

The connections between potable water supply and building drainage systems and appliances must comply with the Plumbing Code. This code governs the standards for installation and maintenance of plumbing systems, ensuring that potable water systems are protected from contamination and that wastewater is properly handled. The Plumbing Code includes regulations regarding the materials used for pipes, the methods of installation, and the necessary backflow prevention measures to safeguard drinking water. These standards are crucial for maintaining public health and safety, as they prevent the potential for cross-connection and contamination of the potable water supply. While other codes such as the Electrical, Mechanical, and Building Codes address their respective aspects of construction and functionality, they do not specifically cover the detailed requirements for plumbing systems and the safe handling of potable water. Therefore, understanding and adhering to the Plumbing Code is essential for ensuring compliance in these areas.

9. What does ASME B16.33 encompass regarding gas shutoff valves?

- A. Safety standards**
- B. Conformance standards**
- C. Material specifications**
- D. Pressure ratings**

ASME B16.33 pertains specifically to the standards for the design, materials, and performance of gas shutoff valves. Selecting conformance standards is appropriate because this code establishes the requirements that valves must meet to ensure they effectively function as safe and reliable shutoff mechanisms for gas systems. Conformance standards are crucial as they provide a framework that manufacturers must adhere to, ensuring that the valves produced will safely meet operational and safety demands, thus validating their suitability for use in gas service applications. While safety standards, material specifications, and pressure ratings are important aspects of the overall safety and reliability of gas systems, ASME B16.33 primarily focuses on the requirements and guidelines necessary to ensure that the shutoff valves meet these conformance expectations effectively.

10. For non-steel piping exposed to view, it must be identified by a yellow label marked "gas" at intervals not exceeding how many feet?

- A. 3 feet**
- B. 5 feet**
- C. 10 feet**
- D. 15 feet**

The requirement for identifying non-steel piping exposed to view with a yellow label marked "gas" emphasizes the importance of safety and clear communication about the presence of gas lines in an area. This labeling is crucial for preventing accidents, ensuring that anyone working near the piping is aware that they are dealing with gas infrastructure. The specification of intervals not exceeding 5 feet is based on safety standards that aim to enhance visibility and awareness, allowing for easy identification of gas lines. A shorter distance like 5 feet ensures that even if a person is not paying close attention, they have a higher likelihood of noticing the label, thereby reducing the risk of a dangerous incident related to gas leaks or unintentional damage to the piping. Therefore, marking the piping at these specified intervals reinforces safe practices in environments where gas piping is present.