

Massachusetts Plumbers Journeyman Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. What is the minimum size required for any vent through the roof?**
 - A. One inch in diameter**
 - B. Two inches in diameter**
 - C. Three inches in diameter**
 - D. Four inches in diameter**
- 2. Where should laundries be connected in buildings with more than three branch intervals?**
 - A. Independent laundry stack**
 - B. Independent laundry main drain**
 - C. Building drain**
 - D. Suds relief vent**
- 3. What should be the depth of removal of rock encountered in trenching?**
 - A. At least one foot below the grade line**
 - B. Up to the grade line**
 - C. At least three inches below the grade line**
 - D. Exactly at the grade line**
- 4. Which material must be used when installing fittings or piping for renovations within an existing soil stack, waste stack, or drain?**
 - A. Galvanized steel**
 - B. Copper**
 - C. Approved plastic piping**
 - D. Same material as the existing stack or drain**
- 5. What size should the future vent connection be in buildings that require a main vent stack?**
 - A. Half the size of the vent stack**
 - B. One inch in diameter**
 - C. Two inches in diameter**
 - D. The same size as the full vent stack**

- 6. According to the Massachusetts Plumbers Code, where should the fixture wastes be connected when installing two lavatories on a two inch horizontal waste branch?**
- A. The top of the branch**
 - B. At the end of the branch**
 - C. Into the center of the branch**
 - D. Into the side center of the branch**
- 7. What are cross connections between potable water systems and other substances prohibited except for when approved by whom?**
- A. Local County Authorities**
 - B. Department of Public Works**
 - C. Environmental Protection Agency**
 - D. Massachusetts Department of Environmental Protection**
- 8. How is a fixture supposed to be trapped?**
- A. Double trapped**
 - B. Triple trapped**
 - C. Not trapped**
 - D. Single trapped**
- 9. Where are bow vents permitted for fixture installations in island cabinets and peninsula cabinets?**
- A. At the fixture**
 - B. Conventional vent**
 - C. In island or peninsula cabinets**
 - D. On the roof**
- 10. For remodeling and alteration work, under what conditions can vents be installed outside a building?**
- A. Without any prior permission**
 - B. Upon completion of the work**
 - C. With inspector's permission and when other venting methods are impractical**
 - D. Only for newly constructed buildings**

Answers

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

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Explanations

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1. What is the minimum size required for any vent through the roof?

- A. One inch in diameter**
- B. Two inches in diameter**
- C. Three inches in diameter**
- D. Four inches in diameter**

The minimum size required for any vent through the roof is indeed two inches in diameter. This standard aligns with plumbing codes that ensure proper ventilation within the drainage system. A two-inch diameter vent allows for adequate airflow to prevent vacuum conditions in the drainage system, which can cause slow drainage or backups. Proper venting is essential for the optimal performance of plumbing fixtures and helps maintain the balance of atmospheric pressure within the system. Using a vent that is too small could lead to inefficient drainage or other plumbing issues.

2. Where should laundries be connected in buildings with more than three branch intervals?

- A. Independent laundry stack**
- B. Independent laundry main drain**
- C. Building drain**
- D. Suds relief vent**

In buildings with more than three branch intervals, it is essential to connect laundries to an independent laundry main drain. This is because an independent main drain specifically accommodates the volume and characteristics of water discharged from washing machines, allowing for better management of the wastewater and preventing potential clogs or backflows in the plumbing system. By using an independent laundry main drain, it helps to ensure that any suds or lint produced during the wash cycle are efficiently removed from the system, reducing the risk of buildup in branch lines or other drainage components. This becomes increasingly important as the complexity of the plumbing system grows with additional branch intervals, as the chances of interference with other systems increase. Using this dedicated drainage solution enhances overall plumbing efficiency and maintains better sanitation, making it the ideal choice for laundry connections in larger buildings.

3. What should be the depth of removal of rock encountered in trenching?

- A. At least one foot below the grade line**
- B. Up to the grade line**
- C. At least three inches below the grade line**
- D. Exactly at the grade line**

The correct depth for the removal of rock encountered in trenching is at least three inches below the grade line. This practice is essential because it provides a stable base for the installation of utilities, such as pipes or conduits, ensuring that they are not subjected to undue stress from surrounding rock. Removing rock to this depth allows for proper bedding material to be placed, which helps with drainage and prevents movement that could compromise the integrity of the installation. The specification of at least three inches ensures that any irregularities in the rock are addressed, preventing potential future issues from occurring due to shifting or settling of the surrounding soil. This adherence to depth standards is crucial for maintaining the functionality and longevity of the installed utilities. Additionally, being too close to the grade line may leave insufficient room for necessary adjustments or for the addition of protective materials, while removing rock deeper than three inches may lead to unnecessary excavation, increasing costs and potentially causing instability in the surrounding soil structure.

4. Which material must be used when installing fittings or piping for renovations within an existing soil stack, waste stack, or drain?

- A. Galvanized steel**
- B. Copper**
- C. Approved plastic piping**
- D. Same material as the existing stack or drain**

The requirement to use the same material as the existing stack or drain during renovations is rooted in maintaining system integrity and compatibility. Using the same material helps prevent issues such as differential expansion, mismatched connections, and potential leaks that can occur when different materials interact. In a plumbing system, the choice of material also affects aspects like weight, support, and movement when subjected to temperature changes. By adhering to the original material type for renovations, you ensure that the existing plumbing system continues to function effectively without introducing vulnerabilities that may arise from mixing materials. Using materials such as galvanized steel, copper, or approved plastic piping might seem beneficial in certain contexts; however, they can introduce compatibility challenges with existing installations, leading to operational issues over time if not paired correctly with the existing system. This consideration emphasizes the importance of maintaining homogeneity in materials used within plumbing systems, especially during alterations or upgrades.

5. What size should the future vent connection be in buildings that require a main vent stack?

- A. Half the size of the vent stack**
- B. One inch in diameter**
- C. Two inches in diameter**
- D. The same size as the full vent stack**

In buildings that require a main vent stack, the future vent connection should be the same size as the full vent stack. This is important to ensure proper ventilation and air flow throughout the building's plumbing system. Matching the size of the future vent connection to the full vent stack helps maintain sufficient airflow to prevent drainage issues and maintain proper pressure within the system. Options A, B, and C are incorrect because they do not match the correct principle of maintaining the same size as the full vent stack for the future vent connection in buildings that require a main vent stack.

6. According to the Massachusetts Plumbers Code, where should the fixture wastes be connected when installing two lavatories on a two inch horizontal waste branch?

- A. The top of the branch**
- B. At the end of the branch**
- C. Into the center of the branch**
- D. Into the side center of the branch**

The correct approach for connecting the fixture wastes when installing two lavatories on a two-inch horizontal waste branch is to connect them into the side center of the branch. This method ensures that the waste from both fixtures is appropriately directed into the waste line, allowing for effective drainage while minimizing the risk of clogs or backflow. By connecting into the side center of the branch, you also allow for better alignment with the flow of waste and ventilation, which is crucial for maintaining proper drainage. This positioning aids in ensuring that both lavatories can operate concurrently without causing a negative impact on the drainage system's overall performance. Additionally, this configuration adheres to the principles outlined in the Massachusetts Plumbers Code, which emphasizes effective waste management and plumbing system efficiency.

7. What are cross connections between potable water systems and other substances prohibited except for when approved by whom?

A. Local County Authorities

B. Department of Public Works

C. Environmental Protection Agency

D. Massachusetts Department of Environmental Protection

The correct answer is that cross connections between potable water systems and other substances are prohibited except when approved by the Massachusetts Department of Environmental Protection. This agency is responsible for enforcing regulations that ensure the safety and quality of drinking water in Massachusetts. They have the authority to evaluate and approve requests for cross connections, ensuring that public health is not compromised. Cross connections can lead to contamination of potable water supplies, making it essential that any exceptions to their prohibition be carefully regulated by a knowledgeable authority. The Massachusetts Department of Environmental Protection has the expertise to understand the implications of such connections and can set guidelines or conditions under which they may be allowed, ensuring they are managed safely. Local county authorities and the Department of Public Works may have roles in water management and infrastructure but do not have the specific legal authority over water quality standards as the Massachusetts Department of Environmental Protection does. Similarly, while the Environmental Protection Agency influences water quality standards at a national level, state-level regulations must often be followed, making the state environmental agency the one that directly handles these types of approvals.

8. How is a fixture supposed to be trapped?

A. Double trapped

B. Triple trapped

C. Not trapped

D. Single trapped

A fixture is supposed to be single trapped to ensure proper drainage and prevent sewage gases from entering the living space. A trap reduces the risk of sewer gas by holding a small amount of water in a curved section of the piping, creating a seal between the fixture and the drainage system. This water barrier helps maintain air pressure within the system while ensuring that harmful odors cannot escape into the home. Double or triple trapping is not advisable because having more than one trap can lead to issues such as increased resistance to drainage flow, potential clogs, and the risk of siphoning, where the water seal in the traps could be compromised. Not trapping at all would leave the interior of the fixture open to sewage gas, which poses health risks. Therefore, single trapping is the correct practice for any plumbing fixture.

9. Where are bow vents permitted for fixture installations in island cabinets and peninsula cabinets?

- A. At the fixture**
- B. Conventional vent**
- C. In island or peninsula cabinets**
- D. On the roof**

The correct response indicates that bow vents are allowed specifically within island or peninsula cabinets for fixture installations. This is significant because these types of cabinetry lack direct access to a conventional venting system, which is typically situated in walls or ceilings. Bow vents provide a means of allowing air pressure equalization in drainage systems, which is necessary for preventing siphoning and ensuring that waste flows smoothly. By permitting bow vents in island and peninsula cabinets, plumbing codes accommodate the unique challenges posed by these installations, thus ensuring both functionality and compliance with safety standards. This approach effectively addresses the practicalities of plumbing design in spaces where traditional venting lines cannot be implemented directly.

10. For remodeling and alteration work, under what conditions can vents be installed outside a building?

- A. Without any prior permission**
- B. Upon completion of the work**
- C. With inspector's permission and when other venting methods are impractical**
- D. Only for newly constructed buildings**

The correct answer is indeed that vents can be installed outside a building with the inspector's permission and when other venting methods are impractical. In the context of remodeling and alteration work, regulations often stipulate that any changes to plumbing systems, including vent installations, must be approved by a qualified inspector. This requirement ensures that the work meets safety codes and complies with local regulations. Additionally, the stipulation that this action is permitted only when other venting methods are deemed impractical allows for flexibility in construction practices. For example, if the existing structure makes internal venting challenging due to design constraints or space limitations, an inspector can authorize the external venting as a viable solution. The other options do not align with standard regulatory practices. Allowing installation without prior permission undermines safety and code compliance. Completing the work before seeking permission could lead to illegal installations, which would complicate inspections. Lastly, restricting this to newly constructed buildings ignores the realities of remodeling, where adaptations may be necessary for existing structures.