

**GEOGRAPHIC INFORMATION SYSTEMS
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***** EXAMINATION *****

CONSTRUCTION AND REPAIR OF LP GAS SYSTEMS

1. **The responsibility to oversee construction and repair is:**
 - a) the contractor
 - b) the operator
 - c) OSHA
 - d) the Office of Pipeline Safety

2. **The mandatory industry specifications for gas system components are:**
 - a) NFPA 58
 - b) OSHA Section 4.2
 - c) ASTM 8.9
 - d) None of the above

3. **A piping systems consists of:**
 - a) pipe and tanks
 - b) valves and fittings
 - c) regulators and relief devices
 - d) All of the above

4. **Operators must know their gas piping system material or identify it by:**
 - a) contacting previous owners of the system
 - b) contacting the contractor who installed or maintained the system
 - c) carefully exposing the pipe in certain locations
 - d) All of the above

5. **Gas lines must be installed with at least:**
 - a) 6 inches of cover
 - b) 12 inches of cover
 - c) 18 inches of cover
 - d) 24 inches of cover

6. **When the minimum buried depth cannot be met, the pipe:**
 - a) should be installed in concrete
 - b) should be installed in conduit or shielded
 - c) should be marked with warning signs
 - d) None of the above

7. **Installation of gas pipes should be conducted by:**
 - a) a registered land surveyor
 - b) qualified persons
 - c) registered engineers
 - d) All of the above

8. **Manufacturer's recommendations for each specific fitting should be:**
 - a) kept in the engineer's office
 - b) kept at the operator's corporate office
 - c) included in the operations and maintenance plans
 - d) None of the above

9. **New metallic pipe installations should be tested:**
 - a) at the manufacturer's plant
 - b) at the construction site
 - c) before backfilling
 - d) a year after construction

10. **The only plastic pipe that can be used for LP gas piping is:**
 - a) polyethylene
 - b) polyvinyl chloride
 - c) ductile
 - d) None of the above

11. **When inserting plastic pipe in a metal pipe, make allowance for:**
 - a) high pressure
 - b) thermal expansion and contraction
 - c) low pressure
 - d) condensation

12. **Metallic wire is buried with plastic pipe:**
 - a) to more accurately measure pipe lengths
 - b) to aid in detection by metal locators
 - c) to keep the pipe straight
 - d) None of the above

13. **Snaking is:**
 - a) laying pipe with adequate slack
 - b) irregular laying of pipe to help in detection
 - c) laying pipe with more joints
 - d) None of the above

14. **A suitable backfill for pipe is:**
 - a) rock
 - b) concrete chips
 - c) sand
 - d) All of the above

15. **Plastic pipe can deteriorate when contacting:**
- a) coal tar coating
 - b) water
 - c) air
 - d) All of the above
16. **Plastic pipe that vents gas should be:**
- a) PVC
 - b) grounded
 - c) not grounded
 - d) not installed
17. **A section of leaking pipe must be replaced with**
- a) at least four feet of pipe
 - b) at least six feet of pipe
 - c) at least eight feet of pipe
 - d) None of the above
18. **All steel pipes and fittings installed below the ground must:**
- a) be properly coated and protected by cathodes
 - b) be PVC
 - c) be double coated
 - d) None of the above
19. **The primary source of problems between plastic and metal pipe fittings**
- a) is improper connection
 - b) is improper lubrication
 - c) is inadequate support of the plastic pipe
 - d) All of the above
20. **The most common cause of breaks in a plastic pipe is:**
- a) caused by poor backfill
 - b) caused by third party excavation
 - c) caused by deep cover
 - d) All of the above

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