

Gastitequiz 67

Instructions

1. Print these pages and [click here](#) to download the manual. **Fee \$40**
2. Answer the **Simple questions** that follow mini sections of the code language.
3. Circle the correct answers and transfer the answers to the [answer sheets](#) (see last pages).
4. Page down to the last page for the [verification form](#), answer sheets and mailing instructions.

4 hour course for:

1. Commercial building inspector.
2. UDC hvac inspector.

Live support at 920-381-6714 or tmklinka@hotmail.com

1. The techniques outlined are recommended practice for generic applications. These practices must be reviewed for compliance with all applicable codes. Where a conflict exists between these guidelines and local requirements, local requirements will take precedence. It is the ultimate responsibility of the of the installer to determine local code acceptance.
a.) True b.) False
2. The Gastite flexible gas piping system may only be installed by a qualified installer who has successfully completed the Gastite Training Program. A certification card is required to purchase and install the Gastite system.
a.) True b.) False
3. Sizing of the Gastite Flexible Gas Piping System must be performed using the capacity tables in the Design and Installation Guide or other code approved CSST tables.
a.) True b.) False
4. Only the components provided or specified by Gastite are to be used in the installation. Use of tubing and fittings from other flexible gas piping systems is strictly prohibited.
a.) True b.) False
5. The Gastite flexible gas piping system may be joined to other fuel gas piping systems by using approved threaded pipe couplings at the interface.
a.) True b.) False
6. Gastite flexible gas piping must never be used as a grounding electrode or as the grounding path for appliances or the electrical systems. Refer to local codes for other approved grounding points. In the absence of local codes, refer to National Fuel Gas Code, NFPA-54 and National Electrical Code, NFPA-70.
a.) True b.) False
7. Gastite flexible gas piping routed in a location that is concealed, constrained and within 3 inches of a potential threat will be protected against damage by approved protection devices.
a.) True b.) False
8. Open ends of the tubing are to be temporarily plugged or taped closed prior to installation to prevent entrance of dirt, dust or other debris.
a.) True b.) False

9. Installation clearance holes for routing Gastite flexible gas piping are to be approximately ½ inch greater than the outside diameter of the tubing. Drilling of any structural member must be in accordance with all local codes.
a.) True b.) False
10. The protective plastic jacketing should be kept in place as much as practical to protect the tubing from corrosive threats. All exposed portions of stainless steel installed outdoors must be wrapped. Contact with corrosive chemicals such as soldering fluxes and acid based masonry cleaners must be followed by a thorough rinse and wipe dry.
a.) True b.) False
11. Tubing shall be supported with pipe straps, bands or hangers suitable for the size and weight of the tubing, at intervals not to exceed those shown in the tables outlined in the Design and Installation Guide.
a.) True b.) False
12. Gastite flexible gas piping should only be connected to non-moveable appliances. Connections to moveable appliances such as ranges and clothes dryers should be accomplished by using an approved appliance connector.
a.) True b.) False
13. For installations buried underground, concrete, asphalt or embedded in concrete, Gastite flexible gas piping must be routed in a non-metallic watertight conduit, which has an inside diameter at least ½” larger than the outside diameter of the tubing. No mechanical joints are permitted within the conduit.
a.) True b.) False
14. A manifold assembly utilizing a pounds-to-inches regulator shall include a shut-off valve ahead of the regulator and be installed in an accessible location so that the regulator can be inspected, maintained and serviced if necessary.
a.) True b.) False
15. For regulators utilizing a vent-limiting orifice, the regulator must be mounted in a horizontal upright position. For outdoor venting, the vent line must be at least the same size as the vent connection and no longer than 30 feet long before upsizing. For outdoor installations, the vent-limiting orifice must be removed and replaced with an outdoor vent protector or inverted with the open port facing down.
a.) True b.) False
16. All pressure regulators must be isolated or removed for all system pressure tests.
a.) True b.) False
17. The Gastite flexible gas piping system must be pressure tested for leaks during rough construction in accordance with all local codes. In the absence of local code requirements, the system must be tested in accordance with the most current edition of the National Fuel Gas Code, NFPA -54.
a.) True b.) False
18. Installation must be performed strictly in accordance with local plumbing and/or building codes, and in accordance with Gastite Design and Installation Guide.
a.) True b.) False

19. Installation must be performed by an installer who has successfully completed a training program recognized by Titeflex and has been issued a Certification Card.
a.) True b.) False
20. Pressure testing must be performed during rough construction with piping system exposed.
a.) True b.) False
21. Titeflex assumes no responsibility for product or labor for any system, which has been improperly installed.
a.) True b.) False
22. Pipe dope can be used inside the fitting to compensate for a poor quality tubing cut.
a.) True b.) False
23. For elevated pressure systems, it is necessary to isolate or remove the line pressure regulator during pressure tests.
a.) True b.) False
24. For most installations, tubing connected to a termination fitting assembly should be protected by strip wound steel conduit for the first 6 inches from the connection.
a.) True b.) False
25. Strike protection is required whenever the tubing is: concealed and constrained and within 3 inches of a potential threat.
a.) True b.) False
26. CSST can be run in which location?
a. Plenum
b. Air Duct
c. Above the flue in a masonry chimney
27. In addition to Gastite fittings, fittings from other CSST manufactures' can be used on the Gastite Flexible Gas Piping System.
a.) True b.) False
28. To insure a quality flare for the fitting attachment the correct tool must be used for cutting Gastite Flexible Gas piping System.
a.) True b.) False
29. Gastite Flexible Gas piping is approved for direct burial in soil or concrete without sleeving.
a.) True b.) False
30. Gastite Flexible Gas Piping can be installed in combination with all approved fuel gas-piping materials such as Black Pipe and Copper using approved threaded couplings at the interface.
a.) True b.) False
31. Which requirement takes precedence for the installation of fuel gas piping systems?
a.) Local plumbing mechanical or gas codes

- b.) Gastite Design Guide
 - c.) Gas Research Institute
32. Pressure testing of the installed Gastite system in new construction must be performed during rough construction of the facility before interior walls are finished.
- a.) True
 - b.) False
33. Sizing of the Gastite Flexible Gas Piping System must be performed using capacity tables found in the Gastite Design and Installation Guide or other code-approved CSST capacity tables (NFPA 54).
- a.) True
 - b.) False
34. Only listed Gastite Striker Plates are to be used to protect Gastite CSST when passing through structural members.
- a.) True
 - b.) False
35. When using the “Longest Run” method for sizing a CSST system, the tubing length considered is:
- a.) The maximum distance from the meter to the furthest appliance location.
 - b.) The actual length of each individual run only.
 - c.) Not really a factor because 1/2’ piping has always done the job.
36. In the absence of local requirements, the system should be pressure tested in accordance with National Fuel Gas Code, NFPA 54, which is 1-1/2 times the maximum working pressure but no less than 3psi.
- a.) True
 - b.) False
37. Installation clearance holes for routing flexible gas piping are to be at least:
- a.) 2 inches in diameter.
 - b.) ½ inch larger than the tubing O.D.
 - c.) As large as building code permits
38. The line pressure regulator is only required for elevated pressures exceeding ½ psi (14 inches water column).
- a.) True
 - b.) False
39. Gastite CSST must be terminated to a fixed point for:
- a.) Moveable appliance connections
 - b.) High pressure systems
 - c.) Pressure testing the gas piping system
40. Low pressure natural gas piping systems within residential buildings is usually supplied at a pressure of;
- a.) 6-7 inches water column
 - b.) 2 psi
 - c.) 50-60 psi
41. Gastite Flexible Gas piping can be used for either natural gas or propane systems.
- a.) True
 - b.) False

Word Definitions

42. Leak Test Solution-

- a.) a means to control the gas supply to any section of piping system or to an appliance.
- b.) a means to detect loss in static pressure of flowing fuel gas due to friction or other flow resistance in tubing or the piping system.
- c.) product free of bubbles in application so that bubbles only appear at leaks in piping.

43. Listed-

- a.) States approval of an installation or procedure.
- b.) Acceptable to the authority having jurisdiction.
- c.) Equipment or material with proper paper that states maintenance, and appropriate standards have been tested, and are suitable for use in a specified manner.

44. Gas Utilization Equipment-

- a.) A device that utilizes gas as a fuel or raw material or both.
- b.) A device used in piping to control the gas supply to any section of the piping system.
- c.) Gas piping which will be in view in the finished structure.

45. Lockup Pressure, Regulator-

- a.) a hand-operated device which provides a means for connecting and disconnecting an appliance.
- b.) System pressure, immediately downstream of the regulator, at which the regulator valve will complete close (leak tight) under no-flow conditions to prevent the downstream pressure from exceeding a predetermined level.
- c.) System component that is intended to protect all downstream components from high pressures in the event of a system failure. Required in gas systems using more than 2psi line pressure.

46. Inches of Water Column-

- a.) A means used in connection with Leak Test Solution to gauge water pressure.
- b.) Method of pressure measured in inches of water column by a pressure gauge.
- c.) Used to determine the maximum pressure existing in a piping system during normal operating cycle.

47. Maximum Actual Operating Pressure-

- a.) The greatest amount of pressure listed by the Authority having jurisdiction to use in piping.
- b.) The system pressure, immediately downstream of the regulator at which the regulator valve will completely close.
- c.) The greatest pressure existing in a piping system during a normal annual operating cycle.

48. Fuel Gas-

- a.) natural gas.
- b.) propane gas.
- c.) both a & b

49. Equivalent Hydraulic Diameter-

- a.) Used in measuring the amount of a specified gas that will flow through a specific length of tubing in a period of time.

- b.) A theoretical size which reflects the hydraulic performance of the tubing.
- c.) Width used to determine the maximum pressure existing in a piping system.

50. Exposed Gas piping-

- a.) points at which gas leaks are detected in piping.
- b.) gas piping that is in the outside elements.
- c.) gas piping that is visible in the finished structure.

51. Effective Ground-Fault Current Path-

- a.) an unintentional path of low electrical energy to carry under ground fault conditions from the point of ground fault on a wiring system to the electrical supply sources.
- b.) an effective means of wiring for piping and its electrical supply.
- c.) a constructed, permanent, low electrical conductive path designed and intended to carry underground fault conditions from the point of a ground fault on a wiring system to the electrical supply source.

52. Connector, Gas Appliance-

- a.) any device that utilizes gas as a fuel or raw material or both.
- b.) a factory-fabricated assembly of gas conduit and fittings to supply gas to an appliance from a gas supply piping outlet.
- c.) a hand-operated device which provides a means for connecting an appliance to a gas supply.

53. Capacity Flow-

- a.) amount of gas that will flow through a specific length and configuration of tubing a manifold, fitting or other component at a specified pressure drop in a fixed period of time.
- b.) pressure existing in a piping system during a normal annual operating cycle.
- c.) description of pressure measured in inches of water.

54. Concealed Gas Piping-

- a.) component of piping used to protect the installed corrugated tubing from accidental puncture.
- b.) utilizes gas as a fuel or raw material to produce heat.
- c.) requires removal of permanent construction to gain access to it.

55. Over-Pressure Protection Device-

- a.) device used in piping to control the gas supply to any section of the piping system or to an appliance.
- b.) component of piping used to protect the installed corrugated tubing from the accidental puncture.
- c.) System component that is intended to protect all downstream components from high pressures in the event of a system failure.

56. Piping System-

- a.) corrugated stainless steel tubing and connection fittings intended for field assembly and installation in residential or commercial buildings to distribute fuel gas to gas utilization equipment within the building.
- b.) factory-fabricated assembly of gas conduit and related fittings designed to convey gaseous fuel, to make connections between outlet and the gas appliance.

c.) protection of tubing from nails.

57. Pressure Drop-

- a.) the downward flow of gas in a piping system.
- b.) system pressure immediately downstream of the regulator.
- c.) loss in static pressure of flowing gas from friction or flow resistance, in the piping system.

58. Quick-Disconnect Device-

- a.) a hand-operated device which provide a means for connecting an appliance or an appliance connector to a gas supply with an automatic means to shut off the gas supply when the device is disconnected.
- b.) a hand-operated device which provides a means for disconnecting an appliance or an appliance connector t a gas supply with an automatic means to shut off the gas supply when the device is disconnected.
- c.) Both a & b.
- d.) Neither a or b.

59. Plenum-

- a.) a special type of device used when concealed tubing is run through wall studs, floor and ceiling joists or other structural members where tubing movement is restricted.
- b.) an enclosed portion of the building structure that is designed to allow air movement, and serves as part of an air distribution system.
- c.) system component that is intended to protect all downstream components from high pressure.

60. Qualified Installer-

- a.) Any individual, firm, or company which either in person or through a representative is engaged in and is responsible for the installation or replacement of building gas piping system.
- b.) Any individual, firm, or company, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.
- c.) Both a & b
- d.) Neither a or b

61. Shielding Device-

- a.) device used in piping to control the gas supply to prevent pressure drop.
- b.) system component that is intended to protect all downstream components from high pressure.
- c.) part of piping system used to protect the installed corrugated tubing from accidental puncture by nails, screws or similar hardware at concealed tubing support points.

62. Regulator Pressure-

- a.) controls the gas supply to any section of the piping system or to an appliance.
- b.) reduces, controls, and maintains the pressure in the portion of the piping system downstream of the device.

- c.) system component that is intended to protect all downstream components from high pressures in the event of a system failure.

63. Authority having Jurisdiction-

- a.) Refers to inspectors in any given township or city.
- b.) Organization, office, or individual responsible for approving equipment, an installation or procedure.
- c.) Refers to the State where installation occurs and its building codes.

64. Striker Plate-

- a.) Special type of shielding device used when concealed tubing is run through wall studs, floor and ceiling joists or other structural members where tubing movement is restricted.
- b.) Limits the gas flow before the regulator pressure.
- c.) Point in piping system that prevents moisture entering any electrical work.

65. Approved-

- a.) acceptable to the manufacturer
- b.) acceptable to authority having jurisdiction.
- c.) both a & b
- d.) neither a or b

66. Appliance Equipment-

- a.) device which utilizes gas as a fuel or raw material to produce light, heat, power, refrigeration or air conditioning.
- b.) device which uses electricity to produce light, heat, power, refrigeration or air conditioning.
- c.) a & b
- d.) neither a or b.

67. Valve Shutoff-

- a.) immediately downstream from the regulator, it will completely close under no-flow conditions to prevent the downstream pressure from exceeding a pre-determined level.
- b.) device used in piping to control the gas supply to any section of the piping system or to an appliance.
- c.) hand-operated device which provides a means for connecting or disconnecting an appliance or an appliance connector to a gas supply, and which is equipped with an automatic means to shut off the gas supply when the device is disconnected.

Gastitequiz 67-Answer Sheet

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Attendee's Name _____ Date _____

Address _____ Fax _____

Credential Number _____ Phone _____

Course Title and Name _____ gastitequiz 67 _____

List each credential held by attendee _____

	Credited Hours	4hrs Fee:\$40
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Instructor Signature _____