

Complete the study material by answering the questions with a single selection using an open code book. At the end of the course, fill in your information and submit the form to Forward Slash Development LLC. This course has 61 questions and is worth 2 continuing education credits.

1. “_____” means a piping arrangement for a drain system where the wastes from a fixture, appliance, appurtenance or device discharge by means of indirect or local waste piping terminating in a receptor at a point below the flood level rim or the receptor into which it discharges.

Air-gap
Open-site
Air –break
Auto-discharge

2. “_____” means any group of 2 or more fixtures that discharge into the same horizontal branch drain.

Branch group
Branch interval
Battery of fixtures

3. “_____” means wastewater contaminated by human body waste, toilet paper and any other material intended to be deposited in a receptor designed to receive urine or feces.

Graywater
Blackwater
Wastewater
Biological wastewater

4. “Combination water service” means a water service that serves a fire protection system and any number of plumbing fixtures.

True
False

5. In reference to a pipe, “Diameter” means, the nominal _____ diameter of the pipe.

inside
outside

6. "Floor sink" means a receptor for the discharge from _____ waste piping installed with its flood level rim even with the surrounding floor.
- indirect
 - local
 - both of the above
7. "Mechanical joint" means a connection between pipes, fittings or pipes and fittings by means of a device, coupling, fitting or adaptor where compression is applied around the center line of the pieces being joined, but which is not _____
- caulked
 - threaded
 - solvent cemented
 - all of the above
8. "Potable water" means the water is
- safe for drinking
 - free from impurities present in amounts sufficient to cause disease or harmful physiological effects
 - both of the above
9. " _____ " means a vent which permits additional circulation of air in or between drain and vent systems.
- Common vent
 - Individual vent
 - Relief vent
 - Main vent
10. Stack“means a _____ pipe that extends vertically one full story or more
- drain
 - vent
 - both of the above

11. The intent of plumbing code in connection with all buildings, public and private, intended for human occupancy, shall be that plumbing is installed and maintained in such a manner so as to protect the _____

- health of the public
- safety and welfare of the public
- waters of the State
- all of the above

12. Where plumbing fixtures exist in a building that is not connected to a public sewer system, suitable provisions shall be made _____ the wastewater

- for treating
- recycling
- dispersing
- holding
- any of the above

13. For a new public building involving ____ or more plumbing fixtures to be installed, submittals of plans and specifications must be made to the Department or Agent Municipality

- 11
- 13
- 15
- 16

14. For testing the sanitary building sewer, if an air test is to be used, forcing air into the system until there is a uniform gauge pressure of ____ pounds per square inch would be required

- 1
- 2
- 3
- 4

15. For testing a drain and vent system, if an air test is to be used, forcing air into the system until there is a uniform gauge pressure of ___ pounds per square inch or the amount sufficient to balance a column of mercury 10" in height would be required.

3

4

5

6

16. In order to re-use plumbing fixtures when the intended use involves an equal degree of hazard as the previous use, it must be approved by _____

the local plumbing inspector

the owner of the building by written consent

both of the above

17. Where there is not a municipal ordinance in place requiring a larger size, the minimum size of a private interceptor main sewer shall be _____ inches.

3

4

5

6

18. For an intermittent flow residential clothes washer the drainage fixture unit value would be _____ dfu

1

2

3

4

19. The minimum trap size for a residential clothes washer in a dwelling is _____ inch

1 1/2

2

none of the above

20. A 1 ½ inch building subdrain pipe at 1/8" pitch is a legal installation
- True
False
21. A horizontal branch drain may not connect downstream from the base fitting of a drain stack 2" or larger in diameter within the distance equal to ___ pipe diameters of the drain to which the horizontal branch drain connects.
- 4
6
10
20
22. A sanitary sump receiving waste from building subdrains shall be located at least ___ feet from any water well or as otherwise approved by the Dept. of Natural Resources.
- 15
20
25
50
23. Discharge piping from the pump or ejector of a sanitary sump shall discharge by means of a wye pattern fitting.
- True
False
24. Where a _____ is located on a floor which is entirely below grade, a floor drain shall be installed to serve that floor.
- water heater
clothes washer
hose bibb
any of the above

25. The top of a building sewer which discharges to a _____ shall be located at a depth of not less than 18" below finished grade.
- septic tank
 - holding tank
 - grease interceptor
 - all of the above
26. Tracer wire placed as a means to locate buried non-metallic sewers discharging to municipal mains sewers, could be accomplished in accordance with which one of these options
- a 6' length of tracer wire per 12' of piping
 - a red tracer wire 12" above the non-metallic pipe
 - a green 18 gauge, insulated single-conductor copper wire or equivalent
 - conductive warning tape in lieu of the tracer wire
27. Vents provided for interior sanitary sumps shall connect either to the sump above the drain inlet or to the drain inlet within _____ inches of the sump.
- 12
 - 16
 - 24
 - 36
28. The maximum developed length between a 2" trap and the vent for it, would be _____ feet, where the pitch of the fixture drain is $\frac{1}{4}$ " per foot.
- 4
 - 6
 - 8
 - 12
29. A common vent may serve a maximum of _____ fixtures where both fixture drains connect to a vertical drain at the same elevation.
- 2
 - 4
 - 6

30. Extensions of vents through a roof shall terminate at least ____ above the roof.
- 2 feet
 - 1 foot
 - 8 inches
 - 6 inches
31. To protect a vent terminal from frost closure, a vent terminal shall be at least ____ inch diameter.
- 1 ½
 - 2
 - 3
 - 4
32. Indirect and local waste piping handling sanitary wastes shall not exceed ____ in length.
- 30 inches
 - 6 feet
 - 12 feet
 - 30 feet
33. A standpipe receptor for a residential-type clothes washer may not extend less than ____ inches above the centerline of the trap outlet.
- 26
 - 24
 - 18
 - 15
34. Where an air gap or air break is located below the countertop, it can discharge to local waste piping.
- True
 - False

35. A standpipe receptor for a residential-type dishwashing machine may not extend less than ____ inches above the centerline of the trap outlet.
- 24
 - 18
 - 15
 - 12
36. The flow rating of an interior grease interceptor shall be at least ____ gallons per minute, but not less than the manufacturer's specifications.
- 10
 - 15
 - 20
 - 25
37. The wastes of floor drains and drain inlets of automatic car washes shall discharge through an approved _____
- garage catch basin
 - grease interceptor
 - car wash interceptor
 - sand separation chamber
38. The developed length of drain piping between cleanouts for gravity flow horizontal drains below ground that are 2 inches or less in diameter may not exceed ____ feet.
- 15
 - 20
 - 30
 - 40
39. The maximum capacity of stormwater horizontal conveyance piping made of PVC meeting ASTM D3034 that is 4 inches in diameter and having a pitch of 1/8" per foot would be ____ gallons per minute.
- 60
 - 80
 - 110

40. The maximum capacity of stormwater horizontal conveyance piping made of concrete meeting ASTM C76, or ASTM C14 that is 12 inches in diameter and having a pitch of 1/8" per foot would be ____ gallons per minute.
- 820
 - 1150
 - 1630
 - 2310
41. In a campground, the sewer drain from a recreational vehicle shall discharge to a minimum 3 inch diameter campsite receptor.
- True
 - False
42. In a campground one campsite receptor shall be designed to serve no more than 4 recreational vehicles.
- True
 - False
43. The discharge of the condensate from a high efficiency furnace or water heater can be discharged to_____
- a powts
 - a municipal sanitary sewer
 - a combined sanitary-storm sewer
 - any of the above
44. In a building where there are water supply systems having different degrees of hazard, a hose bibb intended to discharge water that does not meet drinking water quality as specified in Comm 82.70, shall be _____
- capped
 - equipped with a removable key handle
 - removed

45. For a private water main that is ____ or less in diameter and connects to the public water main, a “corporation cock” shall be installed at the connection to the public water main.

2 ½ inch

2 inch

1 ½ inch

1 inch

46. If a private water supply includes an internal pressure tank, the building control valve shall be installed inside the building and located within 3 feet of the developed length downstream from the internal pressure tank.

True

False

47. Water heaters shall be equipped with a safety devices, including a vacuum relief valve installed in each water heater which when measured from the bottom of the heater, is located more than 20 feet above and faucet or outlet served by the heater

True

False

48. The discharge pipe from a hot water heater relief valve shall terminate within the same room or enclosure within which the water heater is located

True

False

49. The load factor in water supply fixture units (wsfu) for a “public use” lavatory for the hot water portion of the fixture would be _____

.5

1

1.5

2

50. A private water main shall not be less than ____ inch in diameter

3/4

1

1 1/2

51. The fixture supplies serving which of the following can be 1/2 inch.
- syphon-jet type urinals
 - flushometer type water closets
 - residential-type clothes washer
 - all of the above
52. The fixture supply connector located downstream of a water cooler which individually serves a faucet or outlet may not exceed more than _____ in developed length.
- 24 inches
 - 36 inches
 - 6 feet
 - 10 feet
53. Before a newly constructed water supply system is to be put into use, the piping of the system shall be filled with water and allowed to stand for ____ hours.
- 8
 - 12
 - 24
 - 48
54. Unless a wastewater treatment system downstream of an ion exchange water softener, used primarily for water hardness reduction that, during regeneration discharges a brine solution, specifically documents the reduction of _____ the softener shall be of a demand initiated regeneration type instead of on a timer.
- iron
 - rust
 - hardness
 - chlorides
55. An acceptable cross-connection control device for a backpressure situation of a continuous high hazard would be
- Dual check valve type with atmospheric port backflow preventer
 - Pipe applied atmospheric type vacuum breaker
 - Air gaps (ASME A112.1.2)

56. A hospital is required to have at least 2 water services.
The 2 water services cannot connect to different mains if more than 1 is available.
- True
False
57. The termination of the water service for a manufactured home shall
- Be at least 6 inches above the surrounding finished grade
be higher than the termination for the sewer connection for the mfg. home
both of the above
none of the above
58. The connection of the drain piping to a fixture or appliance shall be considered a point of support as far as meeting the support intervals required.
- True
False
59. Pex (crosslinked polyethylene) is required to be supported at intervals of ____ or less in horizontal runs.
- 2 feet
2 2/3 feet
3 feet
4 feet
60. Polyvinyl Chloride (PVC) pipe is required to have supports every ____ in a vertical run.
- 4 feet
6 feet
8 feet
10 feet
61. Hangers, anchors and supports for drain piping shall be of sufficient strength to support the pipe when half full.
- True
False

The Course name is “Internet Plumbing 61Q”

The Course I.D number is _____

Course Completion Date _____

Your Name: _____

Your email address: _____

Your Credential number: _____

List of Credentials that you are seeking credit for _____

Mail to: Forward Slash Development LLC
21147 Fishhook Ave
Tomah, WI 54660

If mailing this form please attach the fee for the course (\$20) payable to Forward Slash Development LLC