

**The following test is Continuing Education for:**

**Master Plumbers, Journeyman Plumbers, UDC Plumbing Inspectors,  
and Commercial Plumbing Inspectors.**

**You can complete the test by printing a hard copy, or you can take it online. All answers are found in the Wisconsin Uniform Plumbing Code Book (Comm. 81 and 82). If you do not own a Plumbing codebook, you may follow this link to the State of Wisconsin website and download it to your computer. <http://commerce.wi.gov/SB/SBDivCodesListing.tml>.**

**The answer sheet can be found at the end of the test. Take the following steps to complete the testing process:**

- 1. Print the answer sheet and circle the correct answer.**
- 2. Complete and Mail the:**
  - a) Answer sheet**
  - b) Educational Course Attendance Verification Form  
(found after the answer sheet)**
  - c) Correct fees.**

**There is no reason to mail the whole test.**

**Remember: All questions have been extracted from the codebook. Therefore, the one correct answer will be as worded in the codes.**

**Begin test on the following page...**

## Plumbing Continuing Education Test 8

### **Comm 81.01: Definitions**

1. \_\_\_\_\_ means an individual or agency recognized by the department to act on the department's behalf relative to a specific activity or function.
  - a. Manager
  - b. Agent
  - c. Inspector
  - d. Representative
  
2. \_\_\_\_\_ means a pressure vessel fixture designed to use steam under pressure for sterilizing.
  - a. Sterilizer, pressure
  - b. Autoclave
  - c. Sterilizer, pressure instrument washer
  - d. Both a and b
  
3. \_\_\_\_\_ means a health care facility that accepts federal funding in accordance with 42 CFR 416 of the federal register for health care finance and where 4 or more individuals that undergo a surgical procedure for which federal reimbursement is based.
  - a. Medical center
  - b. Outpatient surgery center
  - c. Non-ambulatory surgery center
  - d. Ambulatory surgery center
  
4. \_\_\_\_\_ means a unit for the treatment of wastewater which utilizes molecular oxygen in the absence of free oxygen for biological respiration and decomposition.
  - a. Aerobic treatment component
  - b. Anaerobic treatment component
  - c. Standard treatment component
  - d. None of the above
  
5. \_\_\_\_\_ means a pipe, other than a pipe located inside a building, that carries any of the following: storm water, groundwater or clear water.
  - a. Storm sewer
  - b. Surface water system
  - c. Dry wells
  - d. Street gutters

6. \_\_\_\_\_ means a feature formed in the soil matrix by the processes of reduction, translocation and oxidation of iron and manganese compounds in seasonally saturated soil.

- a. Nodules
- b. Redoximorphic feature
- c. Masses
- d. Pore linings

7. \_\_\_\_\_ means a membrane or material installed beneath a fixture to prevent leakage from escaping to the floor, ceiling or walls.

- a. Safing
- b. Basaltic rock
- c. Mineral wool
- d. Curtain wall system

8. \_\_\_\_\_ means a fitting or device supplied with water or other fluid under positive pressure which passes through an integral orifice or constriction causing a vacuum.

- a. Venturi effect
- b. Injector
- c. Aspirator
- d. Vacuum pump

9. \_\_\_\_\_ means the unwanted reverse flow of liquids, solids or gases.

- a. Backflow
- b. Downstream pressure
- c. Upstream pressure
- d. Cross-connection

10. \_\_\_\_\_ means a type of cross connection control device which is composed of 2 independently acting check valves internally force-loaded to a normally closed position, tightly closing shut-off valves located at each end of the assembly and fitted with test cocks.

- a. Double check backflow prevention assembly
- b. Backflow preventer, double check valve type
- c. DCV
- d. All of the above

11. \_\_\_\_\_ means a type of a double check backflow prevention assembly which includes a parallel flow meter to indicate leakage or unauthorized use of water downstream of the assembly.

- a. DC detector
- b. Double check detector assembly backflow preventer

- c. Double check detector valve type backflow preventer
- d. All of the above

12. \_\_\_\_\_ means a pressure greater than the supply pressure that may cause backflow.

- a. Backflow
- b. Ballcock
- c. Back siphonage
- d. Back pressure

13. \_\_\_\_\_ means a pressure greater than atmospheric and exerted for a period of more than 12 continuous hours.

- a. Absolute pressure
- b. Fixed pressure
- c. Continuous pressure
- d. High pressure

14. \_\_\_\_\_ means a receptacle designed to intercept and retain sand, grit, earth and other similar solids.

- a. Grease interceptor
- b. Sand interceptor
- c. Oil interceptor
- d. Mud interceptor

15. \_\_\_\_\_ 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 of the receptor and above the inlet of the trap serving the receptor.

- a. Air-gap
- b. Jake break
- c. Air-break
- d. Air-gap, water supply system

16. \_\_\_\_\_ means the creation of a backflow as a result of negative pressure.

- a. Back siphonage backflow vacuum breaker
- b. Back siphonage
- c. Backwater valve
- d. Back pressure

17. \_\_\_\_\_ means horizontal piping within or under a building, installed below the lowest fixture or the lowest floor level from which fixtures can drain by gravity to the building sewer.

- a. Building drain
- b. Building drain, sanitary
- c. Building drain, storm

d. Building drain branch

18. \_\_\_\_\_ means a substance, activity or condition that is known to have the potential to cause acute or chronic illness or death if exposure to the substance, activity or condition is not abated.

- a. High risk behavior
- b. Communicable disease
- c. Dangerous activities
- d. Human health hazard

19. \_\_\_\_\_ means that part of the drain system not within or under a building which conveys its discharge to a public sewer, private interceptor main sewer, private onsite wastewater treatment system or other point of discharge or dispersal.

- a. Building sewer, sanitary
- b. Building sewer
- c. Building sewer, storm
- d. Building subdrain

20. \_\_\_\_\_ means a type of cross connection control device which contains a check valve force-loaded closed and an air inlet vent valve force-loaded open to atmosphere, positioned downstream of the check valve, and located between and including 2 tightly closing shut-off valves and 2 test cocks.

- a. Back siphonage backflow vacuum breaker
- b. Back siphonage
- c. Backwater valve
- d. Back pressure

**Comm 82.30: Sanitary drain systems**

21. The curb stop, check valve and dresser type coupling shall be installed on the property \_\_\_\_\_ to the connection to the common forced main sewer.

- a. Parallel
- b. Next
- c. Adjacent
- d. As close as possible

22. No person may connect to a public sewer any building \_\_\_\_\_ through which is discharged any substance likely to cause undue corrosion, obstruction, nuisance, explosion or interference with sewage treatment processes.

- a. Drain
- b. Sewer
- c. Septic
- d. a or b

23. Except as provided in s. Comm 82.36 (3), \_\_\_\_\_ drain piping may not discharge to a sanitary building drain which connects to a publicly-owned treatment works.

- a. Storm
- b. Clear water
- c. Gray water
- d. a and b

24. Plumbing fixtures, except \_\_\_\_\_, shall be of the wall mounted type.

- a. Bathtubs
- b. Showers
- c. Urinals
- d. a and b

25. \_\_\_\_\_ shall have waste and overflow connections made above the floor and piped to a trap below the floor.

- a. Bathtubs
- b. Lavatories
- c. Drinking fountains
- d. Water closets

26. Floor and shower drains installed shall be equipped with \_\_\_\_\_ pans.

- a. Head
- b. Integral seepage
- c. Drain
- d. Shower

27. Where drain piping is located in ceilings of areas where \_\_\_\_\_ are prepared, handled stored or displayed, the ceilings shall be of the removable type, or shall be provided with access panels in order to provide an access for inspection of the piping.

- a. Food
- b. Ice
- c. Potable liquids
- d. All of the above

28. Exposed drain piping shall not be located over a pool, surge tank or an open filter for a pool.

- a. True
- b. False

## Comm 82.31 Vents and venting systems

29. Drain stacks of more than \_\_\_\_\_ branch intervals shall be provided with yoke vents.

- a. 10
- b. 5
- c. 6
- d. 8

30. All vent terminals shall be located:

- a. At least 8 feet from an air intake; At least 5 feet from a power exhaust vent;
- b. At least 8 feet horizontally from or 2 feet above roof scuttles, doors and openable windows
- c. At least 3 feet from or 2 inches above parapet walls.
- d. None of the above

31. Where a structure has a(n) \_\_\_\_\_ roof extending from surrounding grade, the vent extension shall run at least 7 feet above grade and terminate with an approved vent cap.

- a. Flat
- b. Gable
- c. Earth covered
- d. Hip

32. The portion of vent pipe outside the structure shall be without joints, except \_\_\_\_\_ fitting may be installed where the pipe leaves the top or side of the structure.

- a. One
- b. Elbow
- c. Union
- d. Barb

33. Where approved by the department, a vent may \_\_\_\_\_ through an exterior wall.

- a. Continue
- b. Depart
- c. Terminate
- d. None of the above

34. Drain or vent pipe extensions shall not be located or placed on the outside of an exterior wall of any \_\_\_\_\_ building, but shall be located inside the building.

- a. Attached
- b. Commercial
- c. Pre-fabricated
- d. New

35. A \_\_\_\_\_ shall not be used for purposes other than the venting of the plumbing system.

- a. Vent
- b. Vent system
- c. Vent piping
- d. a or b

36. Vent piping from boiler blowoff basins shall not be connected to a vent or vent system serving a \_\_\_\_\_ drain system, storm drain system or chemical waste system.

- a. Branched
- b. Trench
- c. French
- d. Sanitary

37. Vent piping for \_\_\_\_\_ systems shall not be connected to a vent system serving a sanitary drain system or storm drain system.

- a. Chemical waste
- b. Sanitary drain
- c. Sewage drain
- d. Storm drain

38. Vents serving \_\_\_\_\_ sterilizers, cleansing or degreasing equipment, pressing machines or any other apparatus which normally discharges steam into the vent shall not be connected to a vent or a vent system serving a sanitary drain system, storm drain system or chemical waste system.

- a. Table top
- b. Autoclave
- c. Steam operated
- d. Dry heat

**Comm 82.32 :Traps and direct fixture connections.**

39. All traps shall be rigidly supported and set true with respect to the water level and so located as to protect the water seals, and shall be protected from \_\_\_\_\_ and evaporation.

- a. Cracking
- b. Freezing
- c. Leaking
- d. Heat



40. Except as provided in s. Comm 82.33, all plumbing fixtures and appliances discharging wastes shall connect \_\_\_\_\_ to a drain system.

- a. Tightly
- b. Directly
- c. Securely
- d. Safely

**Comm 82.33: Indirect and local waste piping**

41. Indirect waste piping and local waste piping draining the fixtures, appliances and devices having a public health \_\_\_\_\_, including but not limited to those listed in Table 82.33-1, shall be considered as plumbing and shall comply with the provisions of this section.

- a. Initiative
- b. Challenge
- c. Concern
- d. Risk

42. The air-break between indirect waste piping or local waste piping and the receptor shall be \_\_\_\_\_ by extending the indirect waste piping or local waste piping below the flood level rim of the receptor and terminating at an elevation above the trap outlet.

- a. Completed
- b. Attained
- c. Accomplished
- d. Reinforced

43. A receptor receiving the discharge from indirect waste piping or local waste piping shall be of a shape and capacity as to prevent \_\_\_\_\_ or flooding.

- a. Splashing
- b. Overflow
- c. Overspill
- d. Runoff

44. The \_\_\_\_\_ waste piping of a portable dishwasher or water treatment device serving one or 2 outlets may discharge into a kitchen sink of a dwelling unit or to a branch tail piece serving a kitchen sink.

- a. Indirect
- b. Cast-iron soil
- c. Single hub
- d. Rigid

45. The indirect waste piping of an automatic clothes washer or water treatment device may not discharge into a laundry tray.

- a. True
- b. False

46. The indirect or local waste piping \_\_\_\_\_ a cross connection control device or assembly, water treatment device, air conditioner, humidifier or furnace condensate may discharge into a branch tailpiece serving a laundry tray.

- a. Dividing
- b. Sharing
- c. Serving
- d. Linking

47. The local waste piping serving a water heater temperature and pressure relief valve, water treatment device, cross connection control device or assembly, humidifier, sterilizer, or a furnace or air conditioner may discharge into the \_\_\_\_\_ of a floor drain when installed in accordance with sub. (7) (b).

- a. Body
- b. Riser
- c. Clamp collar
- d. Top grate

48. The indirect or local waste piping serving a water heater temperature and pressure relief valve, water treatment device, cross connection control device or assembly, or a furnace or air conditioner may discharge to a floor served by a floor drain so as not to create a \_\_\_\_\_ hazard.

- a. Physical
- b. Environmental
- c. Workplace
- d. Health or safety

49. Except as provided in subd. 2. b., wastewater more than \_\_\_\_\_ ° F in temperature shall be discharged by means of indirect waste to the plumbing system.

- a. 120
- b. 130
- c. 150
- d. 160

50. Steam condensate blow down shall be cooled to 160°F in temperature prior to discharging to a plumbing system.

- a. True
- b. False

51. When discharging to a plumbing system, all \_\_\_\_\_ water shall discharge by means of an air-gap.

- a. Storm
- b. Clear
- c. Black
- d. Grey

52. Residential-type clothes washers shall discharge into the sanitary drain system by means of a(n) \_\_\_\_\_.

- a. Air gap
- b. Air-break
- c. High-loop
- d. Hydrostatic loop

53. Pumped-discharge automatic clothes washing equipment in \_\_\_\_\_ shall have the wastes discharge to a drain system by means of standpipes.

- a. Launderettes
- b. Laundromats
- c. Self-service laundry establishments
- d. All of the above

54. Washer wastes shall not be discharged to gutters, troughs, local waste piping, indirect waste manifold or other similar connections.

- a. True
- b. False

55. Gravity discharge-type clothes washing equipment shall discharge by means of an air-break or by other approved methods into a \_\_\_\_\_.

- a. Floor receptor
- b. Trench
- c. Trough
- d. All of the above

56. The indirect waste piping from a residential-type dishwashing machine shall not exceed a developed length of \_\_\_\_\_ feet.

- a. 10
- b. 11
- c. 12
- d. 12.5

**Comm 82.34: Wastewater treatment devices**

57. Any deleterious waste material which is discharged into a plumbing system shall be \_\_\_\_\_ to a wastewater treatment device.

- a. Channeled
- b. Routed
- c. Released
- d. Directed

58. The wastewater treatment device shall be capable of \_\_\_\_\_ the deleterious waste material to a degree that the wastewater is no longer deleterious.

- a. Separating
- b. Diluting
- c. Neutralizing
- d. a, b, or c

59. Wastewater treatment devices that retain any waste materials shall be designed and installed to facilitate periodic \_\_\_\_\_.

- a. Removal
- b. Treatment
- c. Pumping
- d. a or b

60. Except as provided in subd. 2., wastewater discharged from water closets or urinals shall not be reused for drinking water or \_\_\_\_\_ for reuse.

- a. Allowed
- b. Intended
- c. Treated
- d. Permitted

**Plumbing Continuing Education Test 8 Answer Sheet**

**Circle or Mark the correct answer.**

- |     |   |   |   |   |     |   |   |   |   |
|-----|---|---|---|---|-----|---|---|---|---|
| 1.  | a | b | c | d | 47. | a | b | c | d |
| 2.  | a | b | c | d | 48. | a | b | c | d |
| 3.  | a | b | c | d | 49. | a | b | c | d |
| 4.  | a | b | c | d | 50. | a | b | c | d |
| 5.  | a | b | c | d | 51. | a | b | c | d |
| 6.  | a | b | c | d | 52. | a | b | c | d |
| 7.  | a | b | c | d | 53. | a | b | c | d |
| 8.  | a | b | c | d | 54. | a | b | c | d |
| 9.  | a | b | c | d | 55. | a | b | c | d |
| 10. | a | b | c | d | 56. | a | b | c | d |
| 11. | a | b | c | d | 57. | a | b | c | d |
| 12. | a | b | c | d | 58. | a | b | c | d |
| 13. | a | b | c | d | 59. | a | b | c | d |
| 14. | a | b | c | d | 60. | a | b | c | d |
| 15. | a | b | c | d |     |   |   |   |   |
| 16. | a | b | c | d |     |   |   |   |   |
| 17. | a | b | c | d |     |   |   |   |   |
| 18. | a | b | c | d |     |   |   |   |   |
| 19. | a | b | c | d |     |   |   |   |   |
| 20. | a | b | c | d |     |   |   |   |   |
| 21. | a | b | c | d |     |   |   |   |   |
| 22. | a | b | c | d |     |   |   |   |   |
| 23. | a | b | c | d |     |   |   |   |   |
| 24. | a | b | c | d |     |   |   |   |   |
| 25. | a | b | c | d |     |   |   |   |   |
| 26. | a | b | c | d |     |   |   |   |   |
| 27. | a | b | c | d |     |   |   |   |   |
| 28. | a | b | c | d |     |   |   |   |   |
| 29. | a | b | c | d |     |   |   |   |   |
| 30. | a | b | c | d |     |   |   |   |   |
| 31. | a | b | c | d |     |   |   |   |   |
| 32. | a | b | c | d |     |   |   |   |   |
| 33. | a | b | c | d |     |   |   |   |   |
| 34. | a | b | c | d |     |   |   |   |   |
| 35. | a | b | c | d |     |   |   |   |   |
| 36. | a | b | c | d |     |   |   |   |   |
| 37. | a | b | c | d |     |   |   |   |   |
| 38. | a | b | c | d |     |   |   |   |   |
| 39. | a | b | c | d |     |   |   |   |   |
| 40. | a | b | c | d |     |   |   |   |   |
| 41. | a | b | c | d |     |   |   |   |   |
| 42. | a | b | c | d |     |   |   |   |   |
| 43. | a | b | c | d |     |   |   |   |   |
| 44. | a | b | c | d |     |   |   |   |   |
| 45. | a | b | c | d |     |   |   |   |   |
| 46. | a | b | c | d |     |   |   |   |   |

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Name and Credential Number

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Date

To obtain your WI continuing education credits follow the below instructions.

1. If taking the same quiz more than once per cycle, fill out the forms with different dates.
2. Fill in all fields applicable.
3. Include your credential or license number.
4. We take care of registering with the state and mailing back the test results.

**FYI: The state allows a person to take the same course more than once (several times) per cycle.**

Send by mail

1. Test answer sheets, fee, and the following form.
  2. Fill out this form below completely.
  3. Make check or Money Order to Brett Or Kathy Ward
  4. Mail to: Yourwiccontinuinged.com P.O. Box 36 Kaukauna WI 54130.
- Questions call: 920-740-4348

-----Educational Course Attendance Verification Form -----

Attendee's Name \_\_\_\_\_  
Address \_\_\_\_\_  
Date \_\_\_\_\_

Credential Number \_\_\_\_\_  
Phone# \_\_\_\_\_  
Fax# \_\_\_\_\_

Course Title and Name Plumbing Continuing Education Test 8  
Credited Hours 2 hrs  
List the name of each credential held by attendee \_\_\_\_\_  
\_\_\_\_\_

Email address \_\_\_\_\_

To be completed by Brett or Kathy Ward      yourwiccontinuinged.com

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Attendee passed the correspondence quiz with greater than 70% score \_\_\_\_\_  
Date

Instructor Signature \_\_\_\_\_