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 7

Comm 81.01: Definitions

d. Stack vent

1 means wastewater other than storm water, having no impurities or where impurities are below a minimum concentration considered harmful by the department, including but not limited to noncontact cooling water and condensate drainage from refrigeration compressors and air conditioning equipment, drainage of water used for equipment chilling purposes and cooled condensate from steam heating systems or other equipment.
a. Blackwater b. Graywater c. Drainage water d. Clear water
2 means a fixture combining one sink and laundry tray or a 2- or 3-compartment sink or laundry tray in one unit.
a. Combination fixtureb. Combination drain and vent systemc. Combination private water maind. Combination water service
3. Lead–free means a chemical composition equal to or less than 0.3% of lead.
a. True b. False
4 means a portion of drain piping which receives the wastes discharged from indirect waste piping and which discharges those wastes by means of an air break or air gap into a receptor.
a. Local waste pipingb. Local ventc. Multipurpose piping systemd. None of the above
5 means a branch vent connecting at or downstream from the junction of 2 fixture drains and serving as a vent for those fixture drains.
a. Common vent b. Circuit vent c. Auto vent

6 means a test performed on a plumbing system or portion thereof in which the system is filled with a liquid, normally water, and raised to a designated pressure.
a. Hydrostatic testb. Test pressurec. Water jacket testd. Water pressure test
7 means drain piping which does not connect directly with the drain system, but which discharges into the drain system by means of an air break or air gap into a receptor.
a. Individual ventb. Indirect waste pipingc. Infiltration componentd. Infiltrative surface
8 means a drain pipe inside the building which conveys storm water from a roof to the storm drain or storm sewer.
a. Containmentb. Conductorc. Contaminant loadd. Common vent
9 means a tank or pit that receives wastewater that must be emptied by mechanical means.
a. Basement waterproofing systemb. Sumpc. Water tabled. Water tank
10 means a valve placed in a water service or a private water main, usually near the lot line.
a. Dead endb. Stop and drain ball valvec. Meter valved. Curb stop
11 means a dimensional volume of in situ soil that receives wastewater for treatment or distributes final effluent for dispersal.
 a. Distribution cell b. Dispersal zone c. Documented data d. Domestic wastewater

12 means a layer of soil material approximately parallel to the land surface and differing from adjacent genetically related layers in physical, chemical, or biologic characteristics.
a. Soil consistenceb. Soil morphologyc. Soil horizond. Soil profile
13 means the end of a pipe which fits into a bell or hub.
a. Valve b. Mixer tap c. Faucet d. Spigot
14 means any pipe that carries wastewater or water-borne wastes.
a. Drain systemb. Exam sinkc. Treatment sinkd. Drain
15 means liquid discharged from a process, device, appurtenance or piping system.
a. Ejectorb. Effluentc. Elevationd. Engineered soil
16 means a specification, standard, guideline or procedure in the field of plumbing or related thereto, generally recognized and accepted as authoritative documented through national standards or specifications.
a. Approved standardsb. Quality assurance standardsc. Accepted engineering practiced. None of the above
17 (when applied to a fixture, appliance, pipe, fitting, valve or equipment) means having access for maintenance, but which first may require the removal of an access panel or similar obstruction.
a. Accessibleb. Readily accessiblec. Opend. Available

18 means wastewater contaminated by waste materials, exclusive of urine, feces or industrial waste, deposited into plumbing drain systems.
a. Groundwater b. Graywater c. Clearwater d. Blackwater
19 means a unit for the treatment of wastewater that utilizes the principle of oxidation for biological decomposition.
a. Standard treatment componentb. Anaerobic treatment componentc. Residential wastewater systemd. Aerobic treatment component
20 means a receptacle designed to intercept and retain or remove grease or fatty substances.
a. Grease recovery deviceb. Grease interceptorc. Grease shieldd. Grease guzzler
Comm 82.30: Sanitary drain systems
21. Except as provided in subd. 3., the minimum size of pressurized private interceptor main sewer shall be such so as to maintain a minimum flow velocity of feet per second.
a. 3 b. 2 c. 3.5 d. 2.5
22. Where provisions are made for the future installation of fixtures, the of such fixtures shall be considered in determining the required sizes of drain and vent pipes.
a. Drainage fixture unit valuesb. Water supply fixture unit valuesc. Drainage fixture unit loadsd. Expected loads
23. Construction to provide forinstallations shall be terminated with a plugged fitting or fittings.
a. Futureb. Emergencyc. Permanentd. Institutional

24. All changes in direction of flow in drain piping shall be made by the appropriate use of
a. 45 degree wyesb. Long or short sweep quarter bendsc. Sixth, eighth, or sixteenth bendsd. Combination of the above or other equivalent fittings
25. Where blowout type fixtures are installed, appropriate fittings shall be installed to prevent the passage of wastes from one fixture to the other.
a. Remotelyb. Closelyc. Concurrentlyd. Back to back
26. Drain fittings, connections, devices and methods of installation shall not obstruct or retard the flow of in the drain system or venting system in an amount greater than the normal frictional resistance to flow, unless as otherwise permitted in this chapter or unless approved by the department.
a. Water and airb. Wastes and sewagec. a and bd. Gas
27. All sanitary buildingshall discharge into an approved, vented sump with an airtight cover.
a. Venting systemb. Drainage systemc. a and bd. Subdrains
28. The sump shall be so located as to receive the sewage by gravity flow, and shall be located at least feet from any water well.
a. 6 b. 10 c. 20 d. 25
29. The water supply fixture unit method shall be used to determine peak input flow in gallons per minute; the fixtures that drain to the sump shall be included.
a. Onlyb. Allc. None ofd. Primarily

30. When converting water fixture units to gallons per minute it isto calculate the load as a supply system with predominantly flush tanks.
a. Not permissibleb. Permissiblec. Sufficientd. Useful
31. The capacity of the sump shall be such that the pump when actuated by the lowest "pump on" switch runs at least seconds.
a. 20 b. 30 c. 45 d. 60
32. Between the highest "pump on" switch level and the sump inlet, the sump shall hold the amount of input that exceeds the discharge of the pumping equipment in a 5 minute peak input period, but in no case shall the vertical distance between the switch and the inlet be less than inches.
a. 3 b. 2 c. 4 d. 2.5
33. The level shall be maintained in accordance with the pump manufacturer's requirements, but shall not be less than 4 inches above the sump bottom.
a. High water b. Low water c. Permissible d. Approved
34. Penetrations through the top of removable sump covers shall be limited to those for the for the pump or pumps.
a. Electrical supplyb. Vent pipingc. Discharge pipingd. All of the above
35. Where required. The liquid from all sanitary building sumps shall be lifted and discharged into the building sanitary drain system by
 a. Automatic ejectors b. Pumps c. Other equally efficient method approved by the department. d. All of the above

36. Duplex ejector or pumping equipment shall be installed in a public building where discharge into a sump.
a. 3 or more water closetsb. More than 10 drainage fixture unitsc. More than 20 drainage fixture unitsd. a or c
37. Where duplex pumping equipment is installed, a(n)alarm system with a manual control reset shall be installed to indicate pump failure.
a. Audibleb. Visualc. a and bd. a or b
38. The size and design of an ejector or pump shall be determined by the
a. Capacity of the sump to be servedb. The discharge headc. Discharge frequencyd. All of the above
39. The pipe from the ejector or pump shall be connected to the gravity drain by means of a wye pattern fitting.
a. Discharge b. Supply c. Main d. Primary
40. With the exception ofsumps, a full flow check valve shall be installed in the discharge piping from each ejector or pump.
a. Exterior b. Contained c. Uncontained d. Turbine
41. Whereejector or pumping equipment is installed, each discharge pipe from an ejector or pump shall be provided with a gate or ball type valve installed downstream of each full flow check valve.
a. Specialb. Duplicatec. Existingd. Pressurized

42. Air relief valves shall beat all high points in the discharge piping of an ejector or pump where the piping arrangement creates an air trap.
a. Supportedb. Suppliedc. Maintainedd. Provided
43. No fixtures may be connected to the discharge pipe between the ejector or pump and the point where it enters the gravity drain.
a. True b. False
44. No building sewer may pass through or under a building to serve another building, unless:
a. The building sewer serves farm buildings or farm houses, or both, which are all located on one property b. The building sewer or private interceptor main sewer serves buildings located on the same property and a document, which indicates the piping and distribution arrangement for the property and buildings, shall be recorded with the register of deeds no later than 90 days after installation. c The building sewer serves farm buildings or farm houses, or both, which are all located on neighboring properties. d. a or b
45. All building drains shall be installed below the lowest floor levels on which fixtures may be installed if the elevation permits.
a. Public sewerb. POWTsc. Private interceptor main sewerd. a. b, or c
46. A building drain subject to backflow or backwater shall be with a backwater valve or with a sump with pumping equipment in accordance with sub. (10).
a. Protectedb. Supportedc. Suppliedd. Connected

47 valves, when fully open, shall have a capacity not less than that of the pipes in which installed.
a. Ball b. Butterfly c. Backwater d. Non-return
48. Backwater valves shall be so located as to be readily accessible for
a. Flushingb. Cleaningc. Appraisald. Adjustment
49. Where a plumbing fixture or appliance is located on a floor which is entirely, a floor drain shall be installed to serve that floor.
a. Above gradeb. At gradec. Below graded. None of the above
50. In any room containing the recessed or concealed portions of located in health care or related facilities, at least one floor drain connecting to the drainage system shall be installed in a manner to adequately drain the entire floor area.
a. Sterilizersb. Autoclavesc. X-ray equipmentd. All of the above
51. Except as provided in subd. 2. c. to e., a building sewer or private interceptor main sewer shall be protected from in accordance with subd. 3. in areas where the top of the building sewer or private interceptor main sewer is located less than 60 inches below a surface area from which snow will be cleared.
a. Snow b. Hail c. Ice d. Frost
52. Where a building sewer or private interceptor main sewer is installed to serve summer use public facilities, frost protection requirements shall not apply.
a. True b. False

otherwise permitted by local ordinance or accepted by the local inspector.
a. Trenching b. Shoring c. Excavations d. Backfilling
54. Where the bottom of the trench can be maintained in a stable condition and free of during the time of installation the building drain and the building sewer shall be bedded and initially backfilled as specified in this subdivision.
a. Waterb. Hazardous atmospheresc. Surface tension cracksd. Saturated soil
55. Where the trench bottom does not contain stone larger than one inch in size or where bedrock is not, the trench may be excavated to grade.
a. Encountered b. Present c. Unconsolidated d. Sloped
56. Where a mucky or unstable bottom is encountered in the trench, the required dry and stable foundation conditions shall be provided by sheathing driven and left in place to a depth of 48 inches below the trench bottom or to solid foundation at a lesser depth, the removal of wet and yielding material to a depth of 24 inches or to solid material, and replacement of the unstable material with for the bedding under the pipe.
a. Limestone screeningsb. Pea gravelc. Equivalent materiald. a, b, or c
57. Care shall be exercised in placing the of the backfill to prevent breakage of the pipe.
a. Open-graded soilb. Unsuitable materialc. Remainderd. Balance
58 shall not be used in the backfill.
a. Large boulders or rockb. Concrete slabsc. Frozen massesd. All of the above

59. The ends of all pipes not immediately connected shall be closed so as to introduction of earth or drainage from an excavation.	_ the
a. Thwartb. Preventc. Stopd. Impede	
60. Where a forced building sewer discharges to a pressurized public sewer, a be installed.	shall
a. Full flow corporation cockb. Full flow curb stopc. Check valve and dresser type couplingd. All of the above	

Plumbing Continuing Education Test 7 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
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<u>To obtain your WI continuing education credits follow the below</u> 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: Yourwicontinuinged.com P.O. Box 36 Kaukauna WI 54130.

Questions call: 920-740-4348

Educational Course At	tendance Verification F	orm
Attendee's NameAddress		
Date		
Credential Number		
Phone#		
Fax#		
Course Title and Name Plumbing Contin	uing Education Test 7	
Credited Hours 2 hrs		
List the name of each credential held by atte		
Email address		
To be completed by Brett or Kathy Ward	yourwicontinuinged.	com
Course Password	Course ID#	10130
Attended passed the correspondence guiz wi	th greater than 700/ gag	
Attendee passed the correspondence quiz wi	in greater than 70% scor	Date
Instructor Signature		