Instructions for Testplmb61:
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1. Print these pages. **Fee $55.00**
2. Circle the correct answers and transfer them to the answer sheet on the second last page.
3. Page down to the last page for the verification forms and mailing instructions.
4. Click and print….. SPS 381, SPS 382, and SPS 384 if needed to answer the questions below.

Course: 6855 "INTERNET" TESTPLMB61

This course is valid for these credentials:

Credential Description	Cred Code	Credit Hours
Commercial Plumbing Inspector	CPI	6.0
Journeyman Plumber	PJ	6.0
Master Plumber	PM	6.0
UDC-Plumbing Inspector	UPI	6.0

1. A person may obtain a license as a licensed master plumber by either:
a) Taking and passing the master plumber license examination;
b) Possessing a master plumber license–retiree.
c) neither a or b
d) both a or b

2. A person applying for a master plumber license examination shall have one of the following qualifications:
a) At least 1,000 hours of experience per year for at least 3 consecutive years as a licensed journeyman plumber.
b) Graduated from an accredited engineering university or college with a degree in civil engineering, mechanical engineering or other approved engineering curriculum related to plumbing.
c) A licensed master plumber from another state recognized by the State of Wisconsin.
d) only a or b

3. A person who has exchanged his or her master plumber license for a journeyman plumber license may, upon application to the department, exchange his or her journeyman plumber license for a master plumber license provided:
1. The person holds a valid journeyman plumber license.
2. The person submits with the application a copy of his or her former master plumber license.
3. The license fee for a master plumber specified in SPS 305.02, Table 305.02 is submitted.
a) true
b) false

4. The provisions of SPS _____ apply uniformly to the design, construction, installation, supervision, maintenance and inspection of plumbing, including but not limited to sanitary and storm drainage, water supplies, wastewater treatment, and dispersal or discharge for buildings.
a) 381
b) 382
c) 383
d) 384

5. The provisions of chapter 82 are retroactive, unless specifically stated otherwise in the rule.
a) true
b) false

6. Proper protection shall be provided to prevent contamination of food, water, sterile goods and similar materials by backflow of wastewater.
a) true
b) false
7. To fulfill the basic needs of sanitation and personal hygiene, each dwelling shall be connected to a POWTS or public sewer and be provided with at least the following plumbing fixtures: one water closet, one wash basin, one kitchen sink and one bathtub or shower, except a system or device recognized under SPS 391 may be substituted for the water closet. All other structures for human occupancy shall be equipped with sanitary facilities in sufficient numbers as specified in SPS 361 to 65.
a) true
b) false
8. SUBMITTALS TO DEPARTMENT: Except for direct replacement, new installations, additions and alterations to drain systems, vent systems, water service systems, and water distribution systems involving more than 16 plumbing fixtures to be installed in connection with public buildings.
a) true
b) false
9. An agent municipality shall employ 1 full time plumbing inspector who has been qualified by the department.
a) true
b) false
10. Plans and specifications for pubic buildings. (a) At least 3 sets of plans and one copy of specifications which are clear, legible and permanent copies shall be submitted for examination and approval.
a) true
b) false
11. The air test for a drain and vent system shall be made by attaching an air compressor testing apparatus to any suitable opening, and, after closing all other inlets and outlets to the system, forcing air into the system until there is a uniform gauge pressure of 3 pounds per square inch. This pressure shall be held without introduction of additional air for a period of at least 5 minutes.
a) true
b) false
12. The smoke test shall be made by introducing a pungent, thick smoke, produced by one or more smoke machines, into the completed system. When the smoke appears at stack openings on the roof, the openings shall be closed and a pressure equivalent to_____shall be built and maintained for the period of the inspection.
a) 3 pounds per square inch
b) a one inch water column
c) a 10 foot head of water
d) a, b, and c
13. Water supply piping materials may only be reused when intended for uses having an equal or higher degree of hazard than the previous use.
a) true
b) false
14. When old or defective plumbing is to be remodeled, additional fixtures installed, or the whole plumbing system moved to another part of the building, the remodeled system shall be made to conform to this chapter.
a) true
b) false

15. Double check backflow prevention assembly, ASSE 1015, the test results must be submitted to the Department and the Purveyor.
a) true
b) false
16. Pressure vacuum breaker assembly, ASSE 1020, ASSE 1015, the test results must be submitted to the Department and the Purveyor.
a) true
b) false
17. 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 shall discharge to a floor served by a floor drain so as not to create a health or safety hazard.
a) true
b) false
18. Single family dwelling-A control valve shall be installed in the supply piping to each water heater and water treatment device and in the fixture supply to each water closet, exterior hose bibb, kitchen sink, plumbing appliance and piece of equipment.
a) true
b) false
19. The temperature and pressure relief valve discharge pipe of a water heater shall be installed to drain by gravity flow to a floor served by a floor drain or to standpipe in accordance with SPS 382.33 (8).
a) true
b) false
20. The outlet of the temperature and pressure relief valve discharge pipe of a water heater shall terminate within 6” over the floor or receptor, but not less than a distance equal to twice the diameter of the inlet pipe.
a) true
b) false
21. Inspection of one-and 2-family dwellings. The inspection of plumbing installations for one- and 2-family dwellings shall be in accordance with SPS _____.
a) 320
b) 321
c) 322
d) 323
22. Equipment, materials and labor for tests. All equipment, materials and labor required for testing a plumbing system or part thereof shall be furnished by the _____.
a) contractor
b) inspector
c) plumber
d) either a, b, or c
23. The building sewer or private interceptor main sewer shall be tested by insertion of a test plug at the point of connection with the public sewer. The sewer shall then be filled with water under a head of not less than 10 feet. The water level at the top of the test head of water shall not drop for at least 5 minutes.
a) true
b) false
24. The drainage fixture unit values assigned to a receptor which is to receive only the indirect waste discharge from a relief valve on a domestic water heater may be disregarded when determining the minimum size of the building drain and building sewer.
a) true

b) false
25. Drainage fixture unit values for intermittent flow fixtures not listed in Table 82.30-1 shall be computed on the basis of one fixture unit equaling _____ gallons per minute of flow.
a) 6.5
b) 7
c) 1
d) 8
26. Drainage fixture unit values for a breakroom single compartment sink would be?
a) ½
b) 1
c) 1 ½
d) 1 ¼
27. Drainage fixture unit values for a residential automatic clothes washer would be?
a) 2
b) 2 ½
c) 4
d) 3 ½
28. Minimum trap size for a residential automatic clothes washer would be?
a) 1 ¼”
b) 1 ½”
c) Trap size corresponds to the size of the drain outlet

d) 2”
29. Bathroom Group includes: water closet, lavatory, bathtub and shower.
a) true
b) false
30. Trap size for a water closet, non public would be?
a) 3”
b) 4”
c) both a & b
d) Trap size specified in referenced standards of SPS 384.20.
31. Pressurized building sewers shall be sized not less than ___ in diameter for sewage ejectors and sewage pumps, and ___ in diameter for all sewage grinder pumps.
a) 3”, 2”
b) 2”, 1 ¼”
c) 2”, 1 ½”
d) 3”, 1 ½”
32. The minimum size of a gravity flow sanitary building sewer shall be ___ in diameter.
a) 3”
b) 4”
c) 2”
d) both a & b
33. Any pipe of the drain system installed underground, other than the building sewer, shall not be less than ___ in diameter.
a) 1 ½”
b) 1 1/4”
c) 3”
d) 4”
34. The minimum pitch of horizontal branch drains ___ or less in diameter shall be ¼” per foot.
a) 1 ½”
b) 2”

c) 3”
d) 4”
35. The minimum pitch of horizontal branch drains larger than ___ in diameter shall be 1/8” per foot.
a) 1 ½”
b) 2”
c) 3”
d) 4”
36. Maximum number of water closets allowed on a 3” drain pipe?
a) 2
b) 3
c) 1
d) no restrictions
37. All horizontal drain piping 4” or larger in diameter shall be installed at a pitch of which produces a computed velocity of at least 2 feet per second when flowing half full.
a) true
b) false
38. A drain stack with an offset of more than 45% from the vertical shall be installed in accordance with _____.
a) That portion of the stack above the highest offset fitting shall be sized as for horizontal drain piping.
b) That portion of the offset between and including the offset fittings shall be sized as vertical drain piping.
c) That portion of stack below the offset shall be not less than the size of the offset and not less than the size required for vertical drain piping.
d) No horizontal branch drain may connect to the stack offset downstream from the offset’s highest fitting within the distance equal to 20 pipe diameters of the offset.
39. An offset in a vertical drain, with a change in direction of 45% or less from the vertical, shall be sized as a _____.
a) horizontal drain piping
b) stack drain
c) vertical drain piping
d) drain stack
40. A horizontal branch drain may not connect downstream from the base fitting of a drain stack ____ or larger in diameter within the distance equal to ____ pipe diameters of the drain to which the horizontal branch drain connects.
a) 2”, 20
b) 2”, 10
c) 3”, 10
d) 3”, 20
41. A building drain branch or building subdrain branch may not connect to a building drain or building subdrain downstream from the base fitting of a drain stack ____ or larger in diameter within the distance equal to ____ pipe diameters of the building drain or building subdrain.
a) 2”, 20
b) 2”, 10
c) 3”, 10
d) 3”, 20
42. All changes in direction of flow in drain piping shall be made by the appropriate use of 45 degree wyes, long or short sweep_____ .
a) quarter bends
b) sixth bends

c) sixteenth bends
d) a, b, & c
43. The minimum radius for the first 90% fitting downstream from a trap serving a lavatory or sink shall be _____ for drain piping _____ in diameter.
a) 1 ¾”, 1 ½”
b) 1 ½”, 1 ¾”
c) 1 ½”, 1 ½”
d) 1 ¾”, 1 ¾”
44. Using question 42 above this fitting shall be a tee or quarter bend.
true
false
45. The minimum radius for the first 90 bend or elbow downstream from a water closet shall be _____ for drain piping 3” in diameter.
a) 2 ¼”
b) 2 ½”
c) 2 ¾”
d) 2 3/8”
46. What is the minimum radius of a 3” diameter pipe for a change in the direction of flow from vertical to horizontal?
a) 2 7/8”
b) 3 3/4”
c) 3 1/4”
d) 4 1/16”
47. The reduction of a 4 x 3 inch closet bend or collar fitting from 4” to 3” may be considered an obstruction.
a) true
b) false
48. The side inlet of a low pattern or high pattern tee or bend shall not be used as a vent connection when the side inlet is placed in a vertical position or when any arrangement of piping or fittings produces a similar effect.
a) true
b) false
49. The types of fittings and connections specified below shall not be used for drain piping:
1. A heel inlet bend when the heel inlet is in the horizontal position
2. A fitting or connection which has an enlargement chamber or recess with a ledge or shoulder, or reduction in pipe area in the direction of flow
3. A fitting which has running threads
4. A connection by means of drilling and tapping of a drain or vent pipe, unless as otherwise approved by the department
a) true
b) false
50. SUMPS, EJECTORS AND PUMPS. The capacity of the sump shall be such that the pump when actuated by the lowest “pump on” switch runs at least ____ seconds.
a) 10
b) 15
c) 20
d) 25
51. All sanitary building subdrains shall discharge into an approved, vented sump with an airtight cover. 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) 10

b) 25
c) 50
d) 100
52. SUMPS, EJECTORS AND PUMPS. Sumps containing one pump shall have an inside diameter of at least ____. Sumps containing 2 pumps shall have an inside diameter of at least ____.
a) 24”, 32”
b) 18”, 30”
c) 24”, 30”
d) 24”, 36”
53. Duplex ejector or pumping equipment shall be installed in a public building where ___ or more water closets or more than ___ drainage fixture units discharge into a sump.
a) 4, 25
b) 3, 25
c) 4, 20
d) 3, 20
54. Where duplex pumping equipment is installed, an audible and visual alarm system with a manual control reset shall be installed to indicate pump failure.
a) true
b) false
55. The size and design of an ejector or pump shall be determined by the capacity of the sump to be served, the discharge head and discharge frequency. All ejectors and pumps shall provide a minimum flow velocity of ____feet per second in the forced discharge piping.
a) 1
b) 2
c) 3
d) 4
56. All sewage grinder pumps shall have a minimum _____ diameter discharge opening and discharge piping.
a) 1 ¼”
b) 1 ½”
c) 2”
d) 3”
57. The discharge pipe from the ejector or pump shall be connected to the gravity drain by means of a wye pattern fitting. Where the fitting connects to a horizontal drain, the bottom of the wye branch of the fitting shall be located above the vertical center line.
a) true
b) false
58. With the exception of exterior sumps, a full flow check valve shall be installed in the discharge piping from each ejector or pump.
a) true
b) false
59. Prohibited connections. No fixtures may be connected to the discharge pipe between the ejector or pump and the point where it enters the _____ drain.
a) building
b) branch
c) gravity
d) horizontal
60. BUILDING DRAINS AND BUILDING SEWERS. Where any portion of an above-ground building drain discharges to a vertical pipe, the building drain shall connect to the building sewer at an elevation at least ____ above the basement floor.

a) 24”
b) 30”
c) 32”
d) 26”

61. Minimum depth. The top of a building sewer shall be located at a depth of not less than ____below finished grade.
a) 30”
b) 36”
c) 42”
d) 48”

62. The top of a building sewer which discharges to a septic tank, holding tank or grease interceptor shall be located at a depth of not less than _____ below finished grade.
a) 18”
b) 30”
c) 48”
d) 42”

Testplumb61 Answer Sheet

1	a	b	c	d	e	f
2	a	b	c	d	e	f
3	a	b	c	d	e	f
4	a	b	c	d	e	f
5	a	b	c	d	e	f
6	a	b	c	d	e	f
7	a	b	c	d	e	f
8	a	b	c	d	e	f
9	a	b	c	d	e	f
10	a	b	c	d	e	f
11	a	b	c	d	e	f
12	a	b	c	d	e	f
13	a	b	c	d	e	f
14	a	b	c	d	e	f
15	a	b	c	d	e	f
16	a	b	c	d	e	f
17	a	b	c	d	e	f
18	a	b	c	d	e	f
19	a	b	c	d	e	f
20	a	b	c	d	e	f
21	a	b	c	d	e	f
22	a	b	c	d	e	f
23	a	b	c	d	e	f
24	a	b	c	d	e	f
25	a	b	c	d	e	f
26	a	b	c	d	e	f
27	a	b	c	d	e	f
28	a	b	c	d	e	f
29	a	b	c	d	e	f
30	a	b	c	d	e	f

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
47	a	b	c	d
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53	a	b	c	d
54	a	b	c	d
55	a	b	c	d
56	a	b	c	d
57	a	b	c	d
58	a	b	c	d
59	a	b	c	d
60	a	b	c	d
61	a	b	c	d
62	a	b	c	d

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Course Title and Name_____Testplmb61_____

List each credential held by attendee_____

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