

A NON- Illustrated Course

1. **Download Quizzes – Open – Print**

2. **Download and Print** provided code material.

3. **Study code material**, circle correct answers on the printed quizzes.

4. **Login** to your account using your ID and password.

5. **Status** page for your account appears. **Click on link : “Click here to start this course.”**



6. Click on the course pages to advance to the first quiz.

7. Refer to your printed quizzes to find the correct answers to each of the on-line quiz questions.

You will notice that the questions are exactly the same as your printed ones.



This is just like an open book test.

QUIZ 1

Question 1: An airbreak is:
a device used to stop the motion of a pipe threading machine
a device used to stop the motion on a 1 ton or larger service vehicle
a break in the line for a DWV system
a physical separation which may be a low inlet into the indirect waste receptor from the fixture

Question 2: The correct reference for the above question is:
201.0
203.0
203.0
204.0

Question 3: An Area Drain is:
a minimum of 2” ID
must be made of ABS
must be made of galvanized steel and be recessed ¼” below grade
is a receptor designed to collect surface or storm water from an open area.

Question 4: The correct reference for the above question is:
201.0
202.0
203.0
204.0

Question 5: An Aspirator is

the handheld faucet on a flexible supply line, located on the basin of a sink
a device on the outlet of a water faucet to entrain air into potable water
a device supplied with water under positive pressure which passes through an integral orifice causing a vacuum
a positive displacement pump apparatus whose single purpose is to inject chemicals for swimming pools

Question 6: The correct reference for the above question is:
201.0
202.0
203.0
204.0

Question 7: Backflow means:
water running “uphill”
the flow of water into the distributing pipes of a potable supply of water from any sources other than its intended source
sewer water backing up into a basement during high runoff conditions
hot water from a water tank heating up cold water lines

Question 8: The correct reference for the above question is:
201.0
202.0
203.0
204.0

Question 9: A battery of fixtures is:

Any group of two (2) or more similar, adjacent fixtures which discharge into a common horizontal waste or soil branch.
 Any group of three (3) or more similar, adjacent fixtures which discharge into a common horizontal waste or soil branch.
 Any group of four (4) or more similar, adjacent fixtures which discharge into a common horizontal waste or soil branch.
 Any group of five (5) or more similar, adjacent fixtures which discharge into a common horizontal waste or soil branch.

Question 10: The correct reference for the above question is:
 201.0
 202.0
 203.0
 204.0

Question 11: An individual vent is installed to vent a fixture trap and:
 connects to the vent system above the fixture served or terminates in the open air.
 connects to the vent system below the fixture served or terminates in the open air.
 connects to the vent system at the same level of the fixture served or terminates in the open air.
 all of the above

Question 12: The correct reference for the above question is:
 210.0
 209.0
 208.0
 205.3
 211.0

Question 13: What is clear water waste?
 waste water from a drinking fountain
 sewer that is clear in color
 condensate from a boiler
 hot water rinse water from a commercial dishwasher
 all of the above

Question 14: The correct reference for the above question is:
 201.0
 202.0
 203.0
 204.0
 205.0

Question 15: What is a conductor?
 a pipe on the outside of a building which conveys storm water from the roof to a storm water drain
 a pipe on the inside of a building which conveys storm water from the roof to a storm water drain
 a pipe on the inside of a building which conveys waste water from the roof to a storm water drain
 a pipe on the outside of a building which conveys waste water from the roof to a storm water drain
 a pipe on the inside of a building which conveys waste water from the roof to a waste water drain

Question 16: The correct reference for the above question is:
 201.0
 202.0
 203.0
 204.0
 205.0

Question 17: A Durham system
 is a design method for rainwater drains from buildings
 uses threaded piping with recessed fittings
 is a method of heat recovery for boiler blow down
 is not allowed by current code practice

Question 18: The correct reference for the above question is:
 202.0
 206.0
 204.0
 205.0

203.0

Question 19: An Effective Opening could best be described as:
 the minimum cross sectional diameter of a circle of the water discharge.
 the average cross sectional diameter of a circle of the water discharge
 the maximum cross sectional diameter of a circle of the water discharge
 1.5 times the minimum cross sectional diameter of a circle of the water discharge

Question 20: The correct reference for the above question is:
 207.0
 209.1
 207.1
 205.3

Question 21: Flammable Vapor or Fumes:
 is when the flammable constituents in air exceed 10 % of the LFL.
 is when the flammable constituents in air exceed 10 % of the LFL
 is when the flammable constituents in air exceed 25 % of the LFL
 is when the flammable constituents in air is equal to 100 % of the LFL.

Question 22: The correct reference for the above question is:
 207.0
 209.1
 208.0
 205.3

Question 23: A grade is
 the slope of a pipe in reference to a horizontal line
 the fall of a pipe in reference to a horizontal line
 measured in a fraction of an inch per foot
 measured in a percentage of slope per foot
 all of the above

Question 24: The correct reference for the above question is
 207.0 209.0 208.0 205.3 215.0

Quiz 2

Question 1: A horizontal pipe must be installed at an angle less than _____ degrees from the horizontal.
 12 ½
 22 ½
 33 1/3
 45
 66 2/3

Question 2: The correct reference for the above question is:
 210.0
 209.0
 208.0
 205.3
 215.0

Question 3: Which of the following conditions does the term "insanitary" NOT apply to:
 a trap that does not maintain its seal
 a toilet which does not have enough water to adequately flush the bowl
 a condition when waste water could enter a potable water supply system
 a defective fixture
 NONE of the above, all are insanitary conditions

Question 4: The correct reference for the above question is:
 207.0
 209.1
 211.0
 205.3

- Question 5: Invert means
the highest portion of the outside of a horizontal pipe
the lowest portion of the outside of a horizontal pipe
the average mean distance of the outside of a horizontal pipe
the lowest portion of the inside of a horizontal pipe
none of the above
- Question 6: The correct reference for the above question is:
207.0
209.1
211.0
205.3
- Question 7: A leader in plumber terms means:
the end of a sewer snake that is used to break up clogs in waste lines
the main waste vent that fixture side vents connect
the water supply line that enters the building
the drain pipe for conveying storm water from a roof
none of the above
- Question 8: The correct reference for the above question is:
214.0
209.1
211.0
205.3
- Question 9: A macerating toilet system
connects to the toilet
connects to other plumbing fixtures
grinds and pumps the waste
all of the above except 1
all of the above
- Question 10: The correct reference for the above question is:
214.0 209.1 211.0 215.0
- Question 11: An offset is
a pipe that is at 45 degrees from an other pipe
a pipe that is at 90 degrees from an other pipe
a pipe that out of line but parallel with an other pipe
a pipe that is out of line and not parallel with an other pipe.
none of the above
- Question 12: The correct reference for the above question is:
217.0 209.1 211.0 215.0
- Question 13: PEX is
cross-linked polyethylene
Plastic External usage
Polyvinyl cross-linked material
Poly-propylene cross linked material
none of the above
- Question 14: The correct reference for the above question is:
216.0
218.0
211.0
215.0
- Question 15: A riser is:
a water supply pipe which extends vertically one (1) full story or more to convey water to branches or fixtures.
a vent system which extends vertically one (1) full story or more for venting of the waste system
a waste system conductor which is located vertically one (1) full story or more above the main waste conductor
all of the above
none of the above
- Question 16: The correct reference for the above question is:
216.0
220.0
211.0
- Question 17: A sump
is an approved tank which receives liquid waste, is located above the normal grade and must be emptied by mechanical means
is an approved tank which receives liquid waste, is located below the normal grade and must be emptied by mechanical means.
is any tank which receives liquid waste, is located below the normal grade and must be emptied by mechanical means
is an approved tank which receives liquid waste, is located below the normal grade and must not be emptied by mechanical means
None of the above
- Question 18: The correct reference for the above question is:
216.0
220.0
221.0
215.0
205.0
- Question 19: A trap primer
is the solvent used to clean ABS pipe before final gluing
the solvent used on PEX prior to assembly to a trap
is the solvent used to clean CPCV prior to final gluing as a trap
a device and system of piping that maintains a water seal in a remote trap
none of the above
- Question 20: The correct reference for the above question is:
216.0
220.0
221.0
215.0
222.0
- Question 21: A Vertical Pipe
is a pipe that is not more than 90 degrees from a vertical position
is a pipe that is not more than 66 2/3 degrees from a vertical position
a pipe that is not more than 60 degrees from a vertical position
is a pipe that is not more than 45 degrees from a vertical position
is a pipe that is only in a vertical position.
- Question 22: The correct reference for the above question is:
224.0 220.0 211.0 215.0 205.0
- Question 23: A waste pipe conveys
only liquid waste
liquid waste that may contain fecal matter
only liquid waste containing fecal matter
waste from a macerating toilet system
storm water and building sewer waste
- Question 24: The correct reference for the above question is:
224.0 220.0 211.0 215.0 225.0
- Quiz 3**
- Question 1: On an installation, waste line was discovered to have a small crack. What action should the plumber take?
remove the bad section and replace with new
seal minor leak with epoxy
braze crack shut
weld crack shut
do nothing until the crack starts to leak
- Question 2: The correct reference for the above question is:
310.1
310.2
311.2
311.8
- Question 3: The minimum sized cast iron pipe that can be threaded is:
2 inch

3 inch
4 inch
6 inch
none, code does not allow threading

Question 4: The correct reference for the above question is:

310.1
310.2
311.2
311.8
311.2

Question 5: Trenching alongside of a building which is deeper than the footing shall be sloped at least the following angle.

12 ½ degrees
30 degrees
60 degrees
65 degrees
none of the above

Question 6: The correct reference for the above question is:

313.1
313.2
313.3
313.4
313.5

Question 7: A building sewer line must be installed at least _____ from the building.

½ ft
1 ft.
16 inches
24 inches
no minimum distance

Question 8: The correct reference for the above question is:

313.1
313.2
313.3
313.4
313.5

Question 9: Piping penetrations through a floor must be:

a. sealed
b. fire-stopped
c. waterproofed
d. fire-stopped only if penetrating a fire resistant rated floor
a, b, and c

Question 10: The correct reference for the above question is:

313.1 313.2 313.3 313.5 313.7

Question 11: A cast iron vent pipe may be used as a structural support.

Yes
No

Question 12: The correct reference for the above question is:

313.10.1
313.10.2
313.10.3
313.10.4

Question 13: When rat-proofing a drain, a strainer plate must have an opening no larger than:

1/8 inch
¼ inch
3/8 inch
½ inch
5/8 inch

Question 14: The correct reference for the above question is:

313.12.1
313.12.2
313.12.3
313.12.4

Question 15: The minimum size of a hanger rod supporting 10" pipe is

3/8
½
5/8
any of the above
none of the above

Question 16: The correct reference for the above question is:

314.1
314.5
314.6
314.7

Question 17: The minimum distance between hanger supports when hanging 1" steel thread pipe for gas shall be:

4 ft.
8 ft.
10 ft.
12 ft.
16 ft.

Question 18: The correct reference for the above question is:

314.1
314.5
314.6
314.7

Question 19: When can a restaurant employees place food and drinks in a storage area which has soil or drain pipes located overhead.

a. NEVER
b. when the drain pipes have the least number of possible joints
c. when drains are equipped with integral seepage pans
d. piping is tested to 25 ft of water
e. b and c from above

Question 20: The correct reference for the above question is:

316.1
317.2
318.0
319.4

Quiz 4

Question 1: A new toilet in a residential application must need water consumption standards. The maximum amount of water per flush shall not exceed _____.

1.0 gal
1.6 gal
2.1 gal
3.5 gal
5.0 gal

Question 2: The correct reference for the above question is:

401.1.3.1
402.3.1.2
403.0.1.0
404.03.1

Question 3: A urinal shall not exceed _____ gallons per flush.

1.0
0.8
0.7
0.6
0.5

Question 4: The correct reference for the above question is:

401.1.2.1
402.3.1.3
403.01.0
404.05.6

- Question 5: A urinal that operates on a continuous flow is permitted.
True
False
- Question 6: The correct reference for the above question is:
401.1.2.3
402.3.1.4
403.0.5.2
404.01.3
- Question 7: The maximum water flow permitted from a kitchen faucet is _____ gpm.
1.0
1.6
2.5
3.5
5.0
- Question 8: The correct reference for the above question is:
401.1
402.3.23
402.4
403.0
404.0
- Question 9: When is a strainer on a plumbing fixture NOT required?
urinal
residential sink
commercial sink
bathtub
shower
- Question 10: The correct reference for the above question is:
404.1
404.2
404.3
404.4
- Question 11: A dishwasher drain may be connected to the discharge side of a food waste disposal unit.
True
False
- Question 12: The correct reference for the above question is:
404.1
404.2
404.3
404.4
- Question 13: A drinking fountain shall not be installed _____.
in a public toilet room
in a shower room
in a gymnasium locker room
in a steam bath
- Question 14: The correct reference for the above question is:
405.1
405.2
405.3
405.4
- Question 15: Sheet metal restaurant sinks shall be a minimum gauge thickness of _____.
12
14
16
20
24
- Question 16: The correct reference for the above question is:
406.1
406.2
- Question 17: When installing a toilet, it should not be any closer than _____ from its center line to a side wall.
12 inches
15 inches
16 inches
18 inches
24 inches.
- Question 18: The correct reference for the above question is:
407.4
407.5
407.6
407.7
- Question 19: When installing a toilet, it should not be any closer than _____ from its center line to the center line of an adjacent toilet.
12 inches
16 inches
18 inches
24 inches
30 inches
- Question 20: The correct reference for the above question is:
407.4
407.5
407.6
407.7
- Question 21: The clear space in front of a toilet needs to be at least _____ inches.
12 inches 16 inches 18 inches 24 inches 30 inches
- Question 22: The correct reference for the above question is:
407.4
407.5
407.6
407.7
- Question 23: In a public restroom that has 1 water closet and 1 urinal, a floor drain must be installed.
True
False
- Question 24: The correct reference for the above question is:
408.0
409.5
410.6
411.2
- Question 25: A shower is to have a minimum interior area of at least _____ sq. inches.
900 1024 1200 1444 1556
- Question 26: The correct reference for the above question is:
408.0 409.5 410.6 411.7
- Question 27: The location of the shower valves and heads must be _____
on the side wall
can be adjusted prior to stepping into the shower spray so that the shower head does not discharge at the entrance to the compartment
none of the above
all of the above
- Question 28: The correct reference for the above question is:
408.0
409.5
410.6
411.10

Question 29: In a public restroom the maximum water temperature shall not exceed _____ degrees F.
 110
 115
 120
 125
 140

54
 67
 80

Question 30: The correct reference for the above question is:
 413.0
 413.1
 415.1
 417.2

Question 6: The correct reference for the above question is:
 501.0
 502.1
 502.5
 502.12

Question 31: When installing a sink that has 2 handles to control the water flow, the _____ side shall be hot water and the _____ side shall be cold water. (when facing the sink)
 left / right
 right / left
 either side
 not addressed in the code

Question 7: A fuel burning water heater installed in a closet of a bedroom or sleeping room is not allowed unless all of the following is true EXCEPT:
 it is a direct vent type
 the closet door is gasketed
 the closet door has a self closing device
 the closet door has a bolting lock

Question 32: The correct reference for the above question is:
 413.1
 414.0
 415.0
 416.0

Question 8: The correct reference for the above question is:
 505.1
 505.3
 505.4
 506.1

Question 33: The maximum temperature of hot water discharging into a bathtub filler shall be _____ degrees F.
 110
 115
 120
 125
 140

Question 9: A shut-off valve may be placed between the water tank and pressure relief valve
 True
 False

Question 34: The correct reference for the above question is:
 420.0
 414.5
 422.0
 423.0

Question 10: The correct reference for the above question is:
 505.1
 505.3
 505.4
 505.6

Quiz 5

Question 1: A hot water tank is to be installed in a 3 bedroom, 3 bath home. The first hour rating of the tank shall be at least _____ gallons.
 42
 54
 67
 80

Question 11: shut-off valve may be placed between the pressure relief valve and discharge piping to atmosphere.
 True
 False

Question 2: The correct reference for the above question is:
 501.0
 502.1
 502.5
 502.12

Question 12: The correct reference for the above question is:
 505.1 505.3 505.4 505.6

Question 3: A hot water tank is to be installed in a 3 bedroom, 1.5 bath home. The first hour rating of the tank shall be at least _____ gallons.
 42
 54
 67
 80

Question 13: In seismic areas C-F, a water heater must be strapped to resist horizontal displacement.
 ¼, ¼, 4
 ¼, ¼, 6
 1/3, 1/3, 4
 1/3, 1/3, 6

Question 4: The correct reference for the above question is:
 501.0
 502.1
 502.5
 502.12

Question 14: The correct reference for the above question is:
 508.1
 508.2
 508.3
 508.4

Question 5: A hot water tank is to be installed in a 4 bedroom, 2.5 bath home. The first hour rating of the tank shall be at least _____ gallons.
 42

Question 15: A water heater installed in an attic shall have a waterproof drain with a minimum _____ inch drain line.
 ½
 ¾
 1
 1 ½
 not addressed in the code since water heaters in attics are not allowed

Question 16: The correct reference for the above question is:
 508.1
 508.2
 508.3
 508.4

Question 17: The discharge from a relief valve may empty into a water heater pan.
 True
 False

Question 18: The correct reference for the above question is:
 508.1
 508.2
 508.3
 508.4
 508.5

Question 19: When is a non-direct vent water heater allowed in a facility that routinely uses flammable aerosol sprays?
 Never—no exceptions
 Always—no restrictions
 when the tank is 40 gallons or less
 when the tank has a flame guard burner
 none of the above

Question 20: The correct reference for the above question is:
 508.10
 508.2
 508.3
 508.4
 508.5

Question 21: When installing a gas water heater in a residential garage, the tank must be at least _____ inches above the floor unless _____.
 16, no exceptions
 18, no exceptions
 16, listed as flammable vapor ignition resistant
 18, listed as flammable vapor ignition resistant
 24, listed as flammable vapor ignition resistant

Question 22: The correct reference for the above question is:
 508.11
 508.12
 508.13
 508.14
 508.20

Quiz 6

Question 1: The length along the center line of a pipe and fittings is known as the:
 total length
 developed length
 overall length
 usable length

Question 2: The rainleader from the roof to the building storm drain located outside of the building is known as:
 elbow
 leave port
 leaf port
 downspout

Question 3: A soil or waste system in which all piping is threaded pipe or tubing using recessed drainage fittings to correspond to the types of piping is known as a(n):
 UPC drainage system
 IPC drainage system
 ABS drainage system
 Durham system

Question 4: The minimum cross-sectional area at the point of water supply discharge measured or expressed in term of diameter of a circle is known as the:
 actual opening
 effective opening
 useful opening
 nominal opening

Question 5: A plumbing system that has been installed prior to the effective date of this code is known as:
 existing work
 prior work
 grand fathered work
 effective work

Question 6: A drain from the trap of a fixture to the junction of that drain with any other drainpipe is known as a:
 combination drain
 continuous drain
 multiple-use drain
 fixture drain

Question 7: When the liquid rises above the flood level rim, the fixture is known as:
 overloaded
 overflowed
 flooded
 capacity excess

Question 8: A valve located at the bottom of the tank for the purpose of flushing water closets is known as:
 basin valve
 tank valve
 flush valve
 waste valve

Question 9: Two or more showers in a common area are known as a:
 gang shower
 common shower
 community shower
 combination shower

Question 10: The falloff a line of pipe in reference to a horizontal plane is known as:
 grade
 drop
 decline
 degrees

Question 11: A device designed to retain grease from one to a maximum of four fixtures is known as:
 holding tank
 grease tank
 interceptor tank
 catch tank

Question 12: The lowest portion of the inside of a horizontal pipe is known as the:
 bottom
 BDC
 invert
 convert

Question 13: A joint obtained by joining 2 metal parts with metallic mixtures or alloys which melt at a temperature up to and including 840 degrees F is known as:
 sweat joint soldered joint brazed joint
 welded joint

Question 14: An exterior vertical drainage pipe for conveying storm water from roof or gutter drains is known as:
 a leader a follower a conveyor a conduit

Question 15: A "permissive term" would be one of the following:
 shall must required may

Question 16: A combination of elbows or bends in a line of piping which brings one section of the pipe out of line but into a line parallel with the other section is known as:
 inset offset reset side set

Question 17: Water that is satisfactory for drinking, culinary and domestic purposed and that meeting the requirements of the Health Authority have jurisdiction is known as:

potable water drinking water sanitary water
usable water

Question 18: A mixing valve that senses incoming hot and cold water pressures and compensates for fluctuations in either to stabilize outlet temperatures is known as:

mixing valve
pressure balancing valve
water valve
anti-scalding valve

Question 19: A vent, the primary function of which is to provide circulation of air between drainage and vent systems or to act as an auxiliary vent on a specially designed system is known as:

auxiliary vent
overpressure vent
circulating vent
relief vent

Question 20: When used for sizing water piping, it is the furthest outlet dimension, measuring from the meter. This is known as the:

extreme outlet
end point outlet
remote outlet
far point outlet

Question 21: A water supply pipe that extends vertically one full story or more to convey water to branches or fixtures is known as:

a header
the main supply
a riser
a footer

Question 22: A lined excavation in the ground that receives the discharge of a septic tank so designed as to permit the effluent from the septic tank to seep through its bottom and sides is known as a:

septic drain
septic pit
cesspool
drainage pit

Question 23: Any liquid waste containing animal or vegetable matter in suspension or that may include liquids containing chemicals in solution is known as:

sewage
black water
white water
gray water

Question 24: What word indicates a recommendation or that which is advised but not required?

shall
must
required
should

Question 25: A vent which also serves as a drain is known as a:

dry vent
wet vent
combination vent
dual vent