

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
215.0
205.0

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
is 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
 12 inches
 15 inches
 16 inches
 18 inches
 24 inches.
- 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
 406.3
 406.4
- Question 17: When installing a toilet, it should not be any closer than _____ from its center line to a side wall.
- 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

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

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

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

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

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

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

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
54
67
80

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

501.0
502.1
502.5
502.12

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

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

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

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

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

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

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

multiple-use drain
fixture drain

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

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

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

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

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

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

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

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

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

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 purposes 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