

When YOU take a break from viewing the web pages and exit the program, the computer “remembers” the last page you visited.

DO NOT BOOK MARK IN YOUR WEB BROWSER!

How to take this Non Illustrated Course.

1. Download and Print the Quiz and Code Book.

2. Login to your account using your ID and password.

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

4. Start viewing the code book pages. Refer to your printed quizzes to find the correct answers. The questions track the code book pages.

5. As you find the correct answers, circle them on your printed sheet.

6. At the end of each chapter is an online quiz, which is exactly what you printed. Refer to your circled answers and click on the correct answer on the web quiz page.

7. Upon passing, you will proceed to the next chapter. If you do not pass a chapter test, you will start again at the beginning of that chapter.

Note - phone users Use it at your own risk!

Quiz 1

1. This document shall be known as the “Oregon Plumbing Specialty Code,” may be cited as such, and will be referred to as “_____.”

- a. the Bible
- b. Authority Having Jurisdiction Document
- c. this code
- d. the Book.

2. This code is an administrative rule providing _____ requirements and standards for the protection of the public health, safety, and welfare.

- minimum
- maximum
- average
- realistic
- engineered

3. The provisions of this code _____ intended to prevent the installation of any material not specifically prescribed by this code provided that any such alternative has been approved.
are not

- are
- could be

4. When the requirements of the Oregon Specialty Plumbing Code conflict with the requirements of the other codes, which code shall prevail?

- Oregon Specialty Plumbing Code
- International Mechanical Code
- NEC – latest adopted version
- none of the above

5. A permit is not required to replace a leaky drainpipe if its length is less than _____ ft.

- 3
- 4
- 5
- 8
- 10

6. When plans are incomplete or changed so as to require additional review, a fee shall be charged at the rate adopted by the local jurisdiction.

- True
- False

7. The maximum time allowed to make a correction without being subject to penalties is _____ days.

- 10
- 20
- 30
- 60
- 90

8. Moved Building must comply with the code for new installations.

- True
- False

Quiz 2

1. Insanitary is any opening in a drainage system, except where lawful, that is not provided with an approved liquid-sealed trap.

- True
- False

2. A brazed joint is obtained by joining of metal parts with alloys that melt at temperatures exceeding _____ degrees F but less than the melting temperature of the parts to be joined.

- 464
- 575
- 953
- 1000
- 1023

3. A septic tank with the effluent discharging into a subsurface disposal field, into one (1) or more seepage pits, or into a combination of subsurface disposal field and seepage pit or of such other facilities as may be permitted under the procedures set forth by other regulating agencies is usually known as a Private Sewage Disposal System.

- True
- False

4. When used for sizing water piping, a Remote Outlet is the furthest outlet dimension, measuring from the meter, the longest of either the developed length of the cold-water piping to the furthest outlet on the cold-water piping or through the water heater to the furthest outlet on the hot-water piping.

- True
- False

5. A barrier free floor with a shower and drainage fixture(s) is known as a Wet Room.

- True
- False

Quiz 3

1. Proper identification is required on all plumbing parts as to the manufacturer's mark or name, which shall readily identify the manufacturer to the end user of the product when required by the approved standard that applies.

- True
- False

Quiz 4

1. The following do not need self-closing metering faucets.

- employee restrooms
- service station restrooms
- airport restrooms
- convention hall restrooms

2. The clear space in front of water closets and bidets in residential structures shall not be less than _____ inches.

- 16
- 18
- 21
- 24
- 28

3. A flushing device is required on a Non-water urinal.

- True
- False

4. Floor mounted urinals may be used as a floor drain to meet the drain requirements when there are two or more such urinals.

- True
- False

5. Shower receptor shall NOT be constructed of _____.

- sheet metal
- vitrified china
- earthenware
- ceramic tile
- porcelain-enameled metal

6. A wet room serving a shower will need to be at least _____ in dimensions.

- 3ft x 3ft
- 3 ½ft x 3 ½ft
- 4ft x 4ft

5ft x 5ft

7. The floor of a wet room serving a shower will need to have the floor sloping at least _____ per foot toward the drainage fixture.

- 1/4
- 3/8
- 1/2
- 5/8
- 3/4

Quiz 5

1. Water heaters that are constructed and installed so that air for combustion is derived directly from the outside atmosphere and all flue gases are discharged to the outside atmosphere are known as direct vent water heaters.

- True
- False

2. A Hot Water Supply Boiler is a storage type potable water heating unit exceeding any of the parameters of Section 502.9.

- True
- False

3. A Hot Water Supply Boiler is under the jurisdiction of the Oregon Boiler and Pressure Vessel Specialty Code.

- True
- False

4. The maximum volume of a storage type water heaters regulated by this code is _____ gallons.

- 64
- 80
- 100
- 120
- 199

5. The maximum water temperature of a storage type water heaters regulated by this code is _____ degrees F.

- 180
- 190
- 200
- 210
- 220

6. The maximum operating pressure of a storage type water heaters regulated by this code is _____ psi.

- 100
- 125

- 150
- 175
- 200

7. The maximum BTU input of a storage type water heaters regulated by this code is _____ BTU.

- 99 hundred thousand
- 100 hundred thousand
- 150 hundred thousand
- 200 hundred thousand
- 250 hundred thousand

8. Domestic potable water heaters serving single dwelling units and designed to create hot water instantaneously on demand without the use of a storage tank must meet all of the requirements as shown in questions outlined in questions 4 through 7.

- True
- False

9. Solar water heaters with single-walled heat exchangers using non-toxic heat transfer fluids may have relief valves set at not more than _____ psi.

- 100
- 125
- 150
- 175
- 200

10. The minimum sized drain for a water-tight pan located in an attic is _____ in.

- 1/2
- 3/4
- 1
- 1 1/2
- 2

11. An instantaneous water heater located in an attic requires a drain pan with a 3/4 inch drain line.

- True
- False

12. A water heater that is equipment with a flame retention device may be installed in an area where the dispensing of flammable liquids takes place.

- True
- False

13. A gas fired water heater can be installed on the floor of a residential garage if it is installed in a separate enclosed space having access only from outside of the garage and that the combustion air is taken from the exterior of the garage.

- True
- False

14. An electric water heater may installed in a residential garage only if it is least 18” above the garage floor.

- True
- False

15. Parking Structures. Fuel gas water heaters installed in enclosed, basement, and underground parking structures shall be installed in accordance with the Oregon Mechanical Specialty Code, Section C305.5.

- True
- False

16. Repair Garages. Fuel gas water heaters installed in repair garages shall be installed in accordance with the provisions of the Oregon Mechanical Specialty Code, Section C305.5.

- True
- False

17. Water heaters that are located close to a passageway traveled by vehicles must be protected in accordance to Oregon Mechanical Specialty Code.

- True
- False

18. The installing agency shall conform with the _____ recommendations in completing an installation.

- appliance manufacturer's
- the foreman's
- the lead installer's
- the home owner's

19. Water heaters located on roofs or other elevated locations shall be _____.

- accessible
- water tight
- weather proof
- wind proof
- within sight of the roof access

Quiz 6

1. Water closets, urinals, and trap primers in designated nonresidential buildings may be provided with reclaimed water as defined, regulated and adopted in Chapter 16 of this code.

- True
- False

2. Potable water supplies to systems having no pumps or connections for pumping equipment shall be protected by the following:

- a. atmospheric vacuum breaker
- b. pressure vacuum breaker
- c. reduced-pressure backflow preventer
- d. double check valve backflow preventer
- e. all of the above

3. External vertical yard hydrants shall be of the self-draining sanitary type and be provided with a dual check backflow preventer meeting the ASSE 1024 standard.

- True
- False

4. Each such pressure regulator and strainer that is located in a vault shall be shall

- a. be equipped with adequate means to provide drainage
- b. protected from freezing
- c. both of the above
- d. neither of the above

5. A water system that has a instantaneous water heater with a backflow preventer requires an expansion tank.

- True
- False

6. Relief valves drains can be _____ than the relief valve.

- outlet
- smaller
- not smaller
- equal size
- all of the above except a

7. Relief valves can be constructed of

- galvanized steel
- hard drawn copper
- CPVC piping
- ABS piping
- any of the above except ABS

8. Discharge locations outside of the building shall be not less than _____ inches above the ground.

- 6
- 8
- 12
- 16

9. Discharge locations outside of the building shall be not terminate between _____ ft and _____ above the ground or above any other area where persons may normally be present.

- 1, 6
- 2, 8
- 2, 16
- 8, 24
- none of the above

10. A shut off valve is permitted to be installed on the discharge side of any relief valve.

- True
- False

11. The termination end of the drain pipe shall not be threaded.

- True
- False

12. No part of such drain pipe shall be trapped unless it discharges into a sewer line.

- True
- False

13. A relief valve may discharge into a water heater drip pan of approved design, provided the pan is drained with pipe and fittings of the same size and material as required for the relief valve or with PVC Schedule 40 pipe and fittings.

- True
- False

14. A relief valve may discharge into an approved properly installed clothes washer standpipe receptor, laundry tray, floor drain, floor sink, hub drain, area drain or catch basin.

- True
- False

15. A relief valve may discharge on grade concrete garage floors at not less than 6

inches or more than 12 inches above the floor.

- True
- False

16. Relief valve drains may discharge into a building’s crawl space.

- True
- False

17. If in a commercial building water supply systems has a flushometers or quick-acting valves, then a water hammer arrestor must be installed.

- True
- False

18. If in a residential structure, with a water supply system that has a flushometers or quick-acting valves, then a water hammer arrestor must be installed.

- True
- False

Quiz 7

1. Cast-iron soil pipe and fittings shall be listed and tested to comply with standards referenced in Table 14-1.

- True
- False

2. Two (2) fixtures set back-to-back, or side-by-side, within the distance allowed between a trap and its vent shall be permitted to be served by a single vertical drainage pipe provided that each fixture wastes separately into an approved double-fixture fitting or sanitary cross having inlet openings at the same level. Sanitary cross connection shall be sized as required in Section 706.

- True
- False

3. Double sanitary tees shall be permitted to be used when the barrel of the fitting is not less than two (2) pipe sizes larger than the largest inlet, (pipe sizes recognized for this purpose are 1-1/4 in., 1-1/2 in., 2 in., 2-1/2 in., 3 in., etc.).

- True
- False

4. Each horizontal drainage pipe shall be provided with a cleanout or removable fixture trap at its upper terminal.

True
False

5. Permanent means of drainage shall be provided for elevator pits.

True
False

6. In an elevator pit gravity drain an approved backwater valve is required.

True
False

7. In an elevator pit gravity drain the trap seal shall be protected with an automatic trap seal primer.

True
False

8. In an elevator pit drain, a sump or pump may be installed if it has a check valve to prevent water, gases, and odors from entering the pit.

True
False

9. In an elevator pit drain, a sump or pump may be installed if the pump has a secured and level cover over the sump.

True
False

10. In an elevator pit drain, a sump or pump may be installed if the pump has an automatic activation switch.

True
False

11. In an elevator pit drain, a sump or pump may be installed if the pump is at least 1 hp.

True
False

12. A single pump may be permitted for use as a elevator pit drain.

True
False

13. All nonmetallic yard building sewer piping shall have an electrically conductive tracer wire 18-gauge, insulated copper or heavier, green in color, or other approved

materials installed in the trench for locating the pipe in the future.

True
False

14. Cleanouts for building sewers that pass through a backwater valve shall be clearly identified with a marking that is weather resistant on the outside building cleanout stating: "back-water valve downstream."

True
False

Quiz 8

1. A domestic-type dishwasher having a pump for removing wastewater may discharge over the sink.

True
False

2. If the discharge pipe from the pump of a domestic-type dishwasher is extended to the underside of the cabinet top and is securely anchored to preclude the danger of sink waste water from flowing back into the dishwasher, it may be connected to a fitting or other inlet between the sink and sink trap.

True
False

3. The discharge pipe extending from the dishwasher pump outlet to a connection above and on the inlet side of a sink trap shall be of copper tube or other materials approved for such purposes.

True
False

Quiz 9

1. A sanitary tee fitting may be used on its back for a vertical dry vent connection to a horizontal drain.

True
False

Quiz 10

1. Floor drains, floor sinks, funnel drains and similar fixtures shall connect into a trap so constructed that it can be readily _____ and of a size to serve efficiently the purpose for which it is intended.

inspected
cleaned
closed
opened
none of the above

2. Floor drains, floor sinks, funnel drains and similar fixtures shall connect into a trap so constructed of a size to serve efficiently the purpose for which it is intended.

- True
- False

3. The floor drain inlet shall be so located that it is at all times _____.

- in full view
- full
- empty
- accessible
- none of the above

4. A trap for a floor drain does not need a vent if the horizontal arm does not exceed the distances as shown in Table 10-1.1.

- True
- False

5. Common vent sizing shall be the sum of fixture units served, but in no case smaller than the minimum vent size required for any fixture served or as determined from Table 7-5 whichever is larger.

- True
- False

6. Priming of traps for above vented floor sinks are required.

- True
- False

7. Vents are required for traps for exterior area drains and catch basins which discharge to a storm water drain system.

- True
- False

8. Floor drain or similar traps directly connected to the drainage system shall be provided with an approved automatic means of maintaining their water seals.

- True
- False

9. What is the number of traps that a non-pressure-activated primer valve can serve.

- 1
- 2
- 3
- 4
- no limit

10. What is the number of traps that a pressure-activated primer valve can serve.

- 1
- 2
- 3
- no limit
- limit set by the AHJ.

11. The minimum size for supply piping between the priming device connection and the trap is _____ inches ID.

- 1/4
- 3/8
- 1/2
- 3/4
- 1

12. Primer valve bodies shall be installed a minimum of _____ above the flood level rim of the fixture being served and in an accessible location.

- 2
- 6
- 12
- 16
- 18

13. Approved flush tanks may be used as an alternate supply source for primer headers.

- True
- False

14. Any primer stop, if used, must be an accessible screwdriver stop.

- True
- False

Quiz 11

1. Storm water from an exterior area drain, catch basin, or from a roof and discharging to a combined sewer shall be trapped.

- True
- False

2. The trap should be located in the storm drain line between the sanitary sewer connection and the inlet opening into which storm is discharged.

- True
- False

3. What is the location for water drainage traps?

- 1. below the frost line
- 2. within the building
- 3. either of the above

4. neither of the above

4. An accessibly located cleaned, not smaller than the size of the trap is required.
True
False

5. When the cleanout is installed on the exterior of the building, it shall extend at least _____ inches above grade and be within _____ inches of the foundation.
6, 24
12, 16
12, 24
16, 16

6. Fittings shall be the same as that specified for sanitary drainage pipe, except that ninety (90) degree sanitary tee branch fittings may be used in lieu of combination wye and one-eighth (1/8) bends.
True
False

7. Short-turn ninety degree bends may NOT be substituted for long-turn ninety degree bends.
True
False

8. Cleanouts are required for storm drainage.
True
False

9. A conductor pipe shall be used as a sanitary drain or vent.
True
False

10. A sanitary drain or vent pipe can be used as a conductor.
True
False

Quiz 12

1. A piped vacuum distribution system that can be either a wet or dry system designed to remove liquids, air-gas, or solids from the treatment area is classified as a Level _____ system.
1
2
3
4
5

2. A Medical gas and vacuum systems serve occupancies where interruption of the piped gas and vacuum systems would place patients in imminent danger of morbidity or mortality is classified as a Level _____.

- 1
- 2
- 3
- 4
- 5

3. A Medical gas and vacuum systems serve occupancies where interruption of the piped gas and vacuum systems would place patients at manageable risk of morbidity or mortality is classified as a Level _____.

- 1
- 2
- 3
- 4
- 5

4. A Medical gas and vacuum systems serve occupancies where interruption of the piped gas and vacuum systems would terminate procedures, but would not place patients at risk of morbidity or mortality is classified as a Level _____.

- 1
- 2
- 3
- 4
- 5

Quiz 13

1. Subsequent inspections on reclaimed water systems may be required by the owner or an Authority Having Jurisdiction.
True
False

2. The potable and reclaimed water system shall be isolated from each other and independently inspected and tested to ensure there is no cross-connection.
True
False