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**Quiz 1**

1. A Bathroom Group must include a bidet and a urinal.
  - True
  - False
2. A Half Bath tub is 2 ft. 6 inches in length versus the standard 5 foot long tub.
  - True
  - False
3. An Excess Flow Valve is designed to \_\_\_\_\_, when the fuel gas passing through exceeds a prescribed flow rate.
  - open
  - alarm
  - activate
  - divert to an overflow tank
4. FOG is an acronym for \_\_\_\_\_.
  - Fats, Oils, Greases
  - air born water vapor at the dew point
  - For Open Garbage
  - Fuel Oil Gravity
5. The minimum retention time for a gravity grease interceptor is \_\_\_\_\_ minutes.
  - 10
  - 20
  - 30
  - 45
6. A gravity grease interceptor shall have at least \_\_\_\_\_ compartments.
  - 2
  - 3
  - 4
  - code does not specify

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7. The minimum volume for a gravity grease interceptor is \_\_\_\_\_ gallons.
  - 200
  - 300
  - 500
  - code does not specify
8. A Grease Removal Device (GRD) mechanically removes FOG from the interceptor.
  - True
  - False
9. Hot water is defined to be at a temperature equal or greater than \_\_\_\_\_ deg. F.
  - 120
  - 130
  - 140
  - 150
10. PVDF is acceptable for corrosive waste drainage systems.
  - True
  - False
11. Which of the following statements about a Vented Flow Control Device is incorrect?
  - A VFCD must have an internal orifice to control flow rate.
  - A VFCD must be installed upstream from the hydromechanical grease interceptor.
  - A VFCD must have an air intake (vent) downstream from the orifice.
  - all of the answers provided
12. A water hammer arrester is a mechanical device that prevents a plumber from "tweaking" the pipes with a 3 lb. or larger sledge hammer.
  - True
  - False
3. The enlargement of a 3 inch closet bend or stub to 4 inches is considered to be an obstruction.
  - True
  - False
4. A plastic pipe running through framing members to within one inch of the exposed framing, shall be protected by a steel plate extending at least \_\_\_\_\_ beyond the outside diameter of the pipe.
  - 3/4 inch
  - 1 inch
  - 1-1/2 inches
  - 2 inches
5. When is a shelf required to protect piping?
  - When piping through a concrete wall
  - When piping through a concrete floor
  - When piping through a masonry wall
  - All of the answers provided except when the hole is drilled or bored
6. A structural member weakened by cutting or notching does NOT need to be re-enforced or repaired.
  - True
  - False
7. For new construction, all tubs placed on the 1st floor over a crawl space will need to be rat-proofed with a metal collar or screen that has openings less than \_\_\_\_\_ in the least dimension.
  - 1/8 inch
  - 1/4 inch
  - 1/2 inch
  - 3/4 inch
  - 1 inch
8. When installing fixtures, there must be adequate support in accordance with \_\_\_\_\_.
  - the latest UPC code
  - manufacturer's installation instructions
  - the requirements of the Authority Having Jurisdiction
  - all of the answers provided
  - none of the answers provided

## Quiz 2

1. Any waste that is generated shall be treated by a sewage treatment plant.
  - True
  - False
2. ABS Cement may be used to repair cracks in an ABS Fitting only if a primer is used.
  - True
  - False

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9. All trenches deeper than the footing of any building or structure and paralleling the same, shall be at least \_\_\_\_\_ degrees.
  - 33-1/3
  - 45
  - 66-2/3
  - not addressed in code
10. The solvent cement transition between ABS and PVC building drain can be \_\_\_\_\_.
  - ABS solvent
  - PVC solvent
  - either ABS or PVC
  - only a listed transition solvent cement
11. Which of the following alloys can be used for brazing?
  - Soft solder, liquid point 486 deg. F.
  - Soft solder, liquid point 728 deg. F.
  - Silver solder, liquid point 984 deg. F.
  - Silver solder, liquid point 1021 deg. F.
12. A push-fit fitting is a mechanical fitting where the connection is assembled by pushing the tube into the fitting, which is sealed with an "O" ring.
  - True
  - False
13. This method of welding involves the application of heat and pressure to the components, allowing them to fuse together, forming a bond between the pipe and the fitting.
  - True
  - False
14. Which of the following are acceptable methods for joining copper tubing and a fitting?
  - solder
  - brazing
  - flaring
  - pressed joint
  - all of the answers provided
2. Urinals shall have an average water consumption of not more than \_\_\_\_\_ of water per flush.
  - 1.0 gallon
  - 1.5 gallons
  - 2.0 gallons
  - 2.25 gallons
3. Nonwater urinals, when installed, shall have a water distribution line rough-in to the urinal location to allow for the installation of an approved backflow prevention device in the event of a retrofit.
  - True
  - False
4. The following material/s may not be used for a wash tray or sink.
  - A. concrete
  - B. cement
  - C. wood
  - D. tile
  - E. C and D
5. A sheet-metal lined wooden bathtub can be installed in a house.
  - True
  - False
6. A dry or chemical toilet can be installed in a house.
  - Yes, any time
  - No, not at any time
  - Yes, but first must be approved by the Health Officer
7. Connection of water and/or waste for an ornamental fountain basin must be submitted for approval to the AHJ prior to installation.
  - True
  - False
8. Special use fixtures shall be made of \_\_\_\_\_.
  - soapstone
  - chemical stoneware
  - a copper-based alloy
  - a nickel-based alloy
  - any of the answers provided

## Quiz 3

1. Plumbing fixtures shall be constructed with the following attributes except for \_\_\_\_\_.
  - density
  - a porous surface
  - a smooth surface
  - freedom from unnecessary concealed fouling surfaces

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9. Which of the following shall not be used to make a special use fixture?
- soapstone
  - chemical stoneware
  - a copper-based alloy
  - a nickel-based alloy
  - lead
10. A toilet seat in a public restroom must be \_\_\_\_\_ type.
- a round
  - an oval
  - an elongated
  - a square
11. Commercial kitchens shall have floor drains installed in accordance with Section \_\_\_\_\_.
- 510.9
  - 604.15
  - 704.3
  - 803.0
12. Floors shall be sloped \_\_\_\_\_ floor drains.
- toward
  - away from
  - on a neutral plane with
  - any of the answers provided
13. Whirlpool pump access located in the crawl space shall be located no more than \_\_\_\_\_ from an access door, trap door or crawl hole.
- 10 feet
  - 15 feet
  - 20 feet
  - 30 feet
  - not specified
14. The maximum temperature for whirlpool bathtub water is \_\_\_\_\_ degrees F.
- 110
  - 120
  - 130
  - 140
  - 150
15. The water heater thermostat can be used as the control for regulating the maximum whirlpool bathtub water temperature.
- True
  - False

16. The water temperature in a bidet shall not exceed \_\_\_\_\_ degrees F.
- 110
  - 120
  - 130
  - 140
  - 150

## Quiz 4

1. A fuel-burning water heater may be installed in a closet located in the bedroom or bathroom if several conditions are met. Which of the following is incorrect?
- The closet must have a listed gasketed door assembly.
  - The closet must have a self-closing door.
  - The closet door must have a minimum fire rating of 1 hour.
  - The closet door must have threshold and bottom door seals.
2. For appliances installed in an attic, the smallest allowed access opening is \_\_\_\_\_.
- 16 inches x 24 inches
  - 20 inches x 28 inches
  - 22 inches x 30 inches
  - 24 inches x 36 inches
3. Where the height of the passageway is less than 6 feet, the distance from the passageway access to the appliance shall not exceed \_\_\_\_\_ measured along the centerline of the passageway.
- 5 feet
  - 10 feet
  - 15 feet
  - 20 feet
  - none of the answers provided
4. The passageway for an appliance that is in an attic shall be unobstructed, and shall have solid flooring not less than \_\_\_\_\_ wide from the entrance opening to the appliance.
- 16 inches
  - 18 inches
  - 22 inches
  - 24 inches
  - 30 inches

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5. Work Platform: A level-working platform not less than \_\_\_\_\_ shall be provided in front of the service side of the appliance.
  - 16 inches x 16 inches
  - 24 inches x 24 inches
  - 30 inches x 30 inches
  - 36 inches x 36 inches
6. For appliances located in an attic, a light along with a 120-volt receptacle shall be placed near the appliances. The light switch needs to be near the entry way.
  - True
  - False
6. What party is responsible for properly maintaining backflow devices?
  - the plumber
  - the maintenance crew
  - an outside contractor
  - the person or persons having control over such devices or assemblies
7. The minimum time period allowed between testing a backflow device is \_\_\_\_\_.
  - 6 months
  - 1 year
  - 3 years
  - not addressed in the code

## Quiz 5

1. Which of the following plumbing fixtures are exempt from cross-connection protection?
  - lavatory faucets
  - urinals
  - water closets
  - none of the answers provided
2. Nonpotable water systems shall be posted with a yellow background with black uppercase lettering as follows:
  - "CAUTION: NONPOTABLE WATER, DO NOT DRINK"
  - "CAUTION: NONPOTABLE WATER"
  - "CAUTION: NON-DRINKABLE WATER, DO NOT DRINK"
  - "CAUTION: DO NOT DRINK"
3. Nonpotable piping shall be labeled every \_\_\_\_\_.
  - 10 feet
  - 20 feet
  - 40 feet
  - not required
4. Nonpotable piping shall indicate normal direction of flow.
  - True
  - False
5. Each outlet on the nonpotable water line that is used for special purposes, shall be posted with black uppercase lettering as follows:
  - "CAUTION: NONPOTABLE WATER, DO NOT DRINK"
  - "CAUTION: NONPOTABLE WATER"
  - "CAUTION: NON-DRINKABLE WATER, DO NOT DRINK"
  - "CAUTION: DO NOT DRINK"
8. Testing of a backflow assembly shall be performed by \_\_\_\_\_.
  - the plumber
  - the maintenance crew
  - an outside contractor
  - a certified backflow assembly tester
9. In cold climates, backflow assemblies and devices shall be protected from freezing with \_\_\_\_\_ or by a method acceptable to the Authority Having Jurisdiction.
  - an outdoor enclosure
  - heat tape
  - circulation of hot glycol
  - placement inside the structure and maintained at a minimum of 60 deg. F
10. What method is used to size the drain lines serving backflow devices?
  - A standard 1" drain line shall be used.
  - The drain line shall be the same size as the incoming service line.
  - The drain line shall be the same size as the building's drain line.
  - The drain line size is determined by the manufacturer's flow charts for such devices.
11. A plumbing fixture may be installed which compromises the backflow prevention requirement of ASME A112.18.1.
  - True
  - False

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12. Single-walled heat exchangers may be used in the following cases:
  - Indirect-fired water heaters
  - refrigerant-based heat recovery operations
  - glycol-based solar heating
  - all of the answers provided
  - none of the answers provided
13. Double-walled heat exchangers shall separate the potable water from the heat transfer medium by providing a space between the two walls, which is vented to the atmosphere.
  - True
  - False
14. The individual connection of the dialysis-related equipment to the dialysis pure water system does not require additional backflow protection.
  - True
  - False
15. Potable water supply to swimming pools, spas and hot tubs shall be protected by an airgap or a reduced pressure principle backflow preventer.
  - True
  - False
16. The color for Copper Water Tube Type K is \_\_\_\_\_.
  - green
  - blue
  - red
  - yellow
17. The color for Copper Water Tube Type L is \_\_\_\_\_.
  - green
  - blue
  - red
  - yellow
18. The color for Copper Water Tube Type M is \_\_\_\_\_.
  - green
  - blue
  - red
  - yellow
19. Plastic materials for water service piping, outside underground, shall have a tracer wire or other approved conductor installed adjacent to the piping. The wire must be \_\_\_\_\_.
  - blue in color
  - at least 18 AWG
  - suitable for direct burial
  - all of the answers provided
  - none of the answers provided
20. A water regulator shall be installed where static water pressure in the water supply piping is in excess of \_\_\_\_\_.
  - 60 psi
  - 80 psi
  - 100 psi
  - 120 psi
21. A water regulator shall reduce pressure so that it does not exceed \_\_\_\_\_.
  - 60 psi
  - 80 psi
  - 100 psi
  - 120 psi
22. An expansion tank is installed on a building water system downstream of the following device:
  - a check valve
  - a backflow preventer
  - any other normally closed device
  - all of the answers provided
23. Instantaneous water heaters with an inside diameter less than 3 inches, do not require a PT relief valve.
  - True
  - False
24. A relief valve drain may be smaller than the relief valve outlet.
  - True
  - False
25. A relief valve drain that terminates outside a building, must be at least \_\_\_\_\_ above the ground and less than \_\_\_\_\_ above the ground.
  - 1/2 ft., 2 ft.
  - 2 ft., 1 ft.
  - 1 ft., 3 ft.
  - 16", 36"

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26. The relief valve drain shall point \_\_\_\_\_.
  - sideways
  - upward
  - downward
27. A relief valve drain is permitted to terminate in a building's crawl space.
  - True
  - False
28. No part of a relief valve drain may be trapped or may be subject to freezing.
  - True
  - False
29. The terminal end of a relief valve drain is permitted to be threaded.
  - True
  - False
30. Water hammer arresters must be installed as close as possible to quick-acting valves.
  - True
  - False
5. A backwater valve is required \_\_\_\_\_.
  - when a fixture is installed on a floor level that is lower than the next upstream manhole cover
  - on all 3 story buildings
  - in all buildings in a flood zone
  - in all waste drainage systems permitted after July 1, 2007
6. Grinder pumps may be used in waste drainage systems.
  - True
  - False
7. The discharge piping shall be sized per the manufacturer's instructions and shall be not less than \_\_\_\_\_ in diameter.
  - 1 inches
  - 1-1/4 inches
  - 1-1/2 inches
  - 2 inches
  - 2-1/2 inches
8. A check valve and shutoff valve shall be located within the discharge line.
  - True
  - False

## Quiz 6

1. Stainless steel 304 pipes for sanitary drainage pipe are permitted to be installed underground.
  - True
  - False
2. For continuous flow into a drainage system, \_\_\_\_\_ shall be allowed for each gallon per minute of flow.
  - 1 fixture unit
  - 2 fixture units
  - 3 fixture units
  - 4 fixture units
  - 5 fixture units
3. Plugs for cleanouts must have either a raised square head or approved countersunk rectangular slots.
  - True
  - False
4. An additional cleanout shall be provided in a drainage line for each aggregate horizontal change of direction exceeding \_\_\_\_\_.
  - 90 degrees
  - 120 degrees
  - 135 degrees
  - 180 degrees
9. Listed macerating toilet systems shall be permitted as an alternate to a sewage pump system.
  - True
  - False
10. The Authority Having Jurisdiction shall review the installation before approval of a commercial food waste grinder connecting to a private sewage disposal system.
  - True
  - False

## Quiz 7

1. Condensate from a condensing furnace may be discharged into a drainage system made from \_\_\_\_\_.
  - cast iron
  - galvanized iron
  - plastic
  - all of the answers provided

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2. Air-conditioning condensate waste pipes shall connect indirectly to the drainage system through an airgap or airbreak to a properly trapped and vented receptor.
  - True
  - False
3. Air conditioning condensate is allowed to drain over a public way.
  - True
  - False
4. Which of the following materials cannot be used for a vent pipe if below ground?
  - cast iron
  - brass
  - SS 304
  - galvanized steel
  - galvanized wrought iron
5. The minimum size wet vent for a bathroom with 4 dfu is \_\_\_\_\_.
  - 1-1/2 inches
  - 2 inches
  - 3 inches
  - 4 inches
6. The minimum size wet vent for a bathroom with more than 5 dfu is \_\_\_\_\_.
  - 1-1/2 inches
  - 2 inches
  - 3 inches
  - 4 inches
7. An accessible cleanout shall be installed in each vent for the combination waste and vent system.
  - True
  - False
8. Cleanouts are not required on any wet-vented branch serving a single trap, when the fixture tailpiece or connection is not less than 3 inches in diameter, and provides ready access for cleaning through the trap.
  - True
  - False

## Quiz 8

1. How many approved slip joint fitting may be used on the outlet side of a tap?
  - 1
  - 2
  - 3
  - code does not address
2. Only listed plastic trap adapters may be used to connect listed metal tubing traps.
  - True
  - False
3. A trap which depends for its seal upon the action of movable parts may be used.
  - True
  - False
4. S traps, bell traps and crown-vented traps may be used.
  - True
  - False
5. Fixtures may be double trapped.
  - True
  - False
6. Drum and Bottle traps can be installed for any condition.
  - True
  - False
7. No trap may be installed without a vent.
  - True
  - False
8. Slaughterhouses, packing establishments and similar types of enterprises shall be connected to an approved grease interceptor.
  - True
  - False
9. A grease interceptor is not required for individual dwelling units or any private living quarters.
  - True
  - False

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10. Water closets, urinals, and other plumbing, fixtures conveying human waste shall not drain into or through the grease interceptor.
  - True
  - False
11. Individual grease interceptors shall be trapped and vented in an approved manner.
  - True
  - False
12. A commercial dishwasher shall discharge into a grease interceptor.
  - True
  - False
13. A commercial food waste disposer is permitted to discharge directly into a building's drainage system without going through a grease interceptor.
  - True
  - False
14. A vent shall be installed \_\_\_\_\_ of hydro-mechanical grease interceptors in accordance with the requirements of this code.
  - upstream
  - on the unit
  - downstream
  - none, not required
15. Toilets, urinals, and other similar fixtures shall not drain through the interceptor.
  - True
  - False
16. Grease latent waste water shall enter the grease interceptor through the inlet pipe only before being discharged into the sanitary drainage system.
  - True
  - False
17. Which of the following is not a requirement in the location of a grease interceptor? When the location is \_\_\_\_\_.
  - within 20 feet of the property line
  - easily accessible for inspection
  - easily accessible for cleaning
  - easily accessible for removal of intercepted grease
18. A grease interceptor is may be located in any part of a building where food is not handled.
  - True
  - False
19. Interceptors shall be placed \_\_\_\_\_ the fixtures they serve.
  - as close as practical to
  - within 10 feet of
  - within 20 feet of
  - anywhere within the property lines of the building in relation to
20. Two restaurants, sitting on adjacent properties, may share the same grease interceptor.
  - True
  - False
21. The main purpose of a gravity grease interceptor is to \_\_\_\_\_.
  - remove grease from effluent
  - allow solids to settle out to the bottom of the interceptor
  - act as an overload storage container for peak flows
  - meter in effluent at a reduced by standard rate into the sewer system
22. When designing a gravity grease interceptor, if the drainage fixture units (DFU's) are not known, the interceptor shall be sized based on \_\_\_\_\_.
  - an establishment of similar size
  - an establishment of similar usage
  - physical space available to install such an interceptor
  - the maximum DFU's allowed for the pipe size connected to the inlet of the interceptor
23. Abandoned grease interceptors may be left undisturbed.
  - True
  - False
24. The purpose of the expanded section of 1015.1 FOG Disposal System is to provide necessary criteria for \_\_\_\_\_.
  - sizing
  - application
  - installation
  - all of the answers provided
  - none of the answers provided

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25. The maximum allowed FOG discharging from a FOG Disposal System is \_\_\_\_\_.
- 100 mg/L
  - 200 mg/L
  - 500 mg/L
  - 1000 mg/L

## Quiz 9

1. Which of the following materials may NOT be used for rainwater piping placed within the interior of a building and installed underground?
  - cast iron
  - copper
  - lead
  - 304 stainless steel
2. The scupper opening shall be a minimum of \_\_\_\_\_ high and have a width equal to the circumference of the roof drain.
  - 2 inch
  - 4 inch
  - 6 inch
  - 8 inch
3. The minimum distance that a secondary roof drain shall be located above the roof surface is \_\_\_\_\_.
  - 1/2 inch
  - 1 inch
  - 2 inches
  - 3 inches
  - 4 inches
4. The secondary roof drainage system shall be a separate system of piping, independent of the primary roof drainage system.
  - True
  - False
5. The discharge shall be \_\_\_\_\_ grade, in a location observable by the building occupants or maintenance personnel.
  - above
  - on a level
  - below
6. A secondary roof drain system shall be sized in accordance with Section 1101.11.1 based on the rainfall rate for which the primary system is sized.
  - True
  - False

7. The combined secondary and primary roof drainage systems shall be sized at 3 times the rainfall rate for the local area.
  - True
  - False
8. The following materials are NOT to be used inside conductors when installed below ground.
  - Type M seamless copper water tube
  - Hubless cast-iron soil pipe
  - Stainless steel 304 pipe
  - Schedule 40 PVC plastic pipe
9. The following material may be used for construction of a leader.
  - Aluminum sheet metal
  - Galvanized steel sheet metal
  - Copper sheet metal
  - All of the answers provided

## Quiz 10

1. Chapter 13 covers Health Care Facilities and Medical Gas and Vacuum Systems. Does this chapter apply to breathing air replenishment (BAR) systems?
  - Yes
  - No
2. Which of the following is no longer included in Chapter 13 Health Care Facilities and Medical Gas and Vacuum Systems?
  - oxygen
  - nitrogen
  - nitrous oxide
  - helium
  - medical air
3. Industrial grade nitrogen may be used for brazing medical gas lines.
  - True
  - False
4. Type L may be used in operating pressures below \_\_\_\_\_.
  - 55 psi
  - 110 psi
  - 185 psi
  - 210 psi

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5. Type K must be used for sizes larger than \_\_\_\_\_.
  - 3/4 inch
  - 1 inch
  - 1-1/4 inches
  - 3-1/8 inches
6. Turns, offsets, and other changes in direction in welded or brazed medical gas and vacuum piping shall be made with brazed wrought-copper capillary fittings complying with \_\_\_\_\_.
  - A. ASME B16.22
  - B. ASME B16.50
  - C. either A or B
  - D. neither A or B
7. Which of the following methods can be used to join tubing?
  - A. brazed joints
  - B. axially sage, elastic strain preload fittings
  - C. grooved joints rated by manufacturer
  - D. mechanically pressed and grooved joints
  - E. A and B
8. Which of the following joints are allowed in medical gas and vacuum distribution pipelines?
  - flared connections
  - compression type connections
  - straight-thread connections including unions
  - all of the answers provided
  - none of the answers provided
9. Piping risers may be installed in pipe shafts if protected from \_\_\_\_\_.
  - physical damage
  - effects of excessive heat
  - corrosion
  - contact with oil
  - all of the answers provided
10. Piping shall not be installed in \_\_\_\_\_.
  - kitchens
  - elevator shafts
  - elevator machine rooms
  - areas with open flames
  - all of the answers provided
11. When medical gas piping is installed in a service trench or tunnel with electrical lines, the trench or tunnel \_\_\_\_\_.
  - A. must be ventilated (naturally or mechanically)
  - B. must have an ambient temperature below 130 deg. F
  - C. A and B
  - D. neither, medical gas piping must be the only element in the trench or tunnel
12. Medical gas piping that is installed underground and with a cover must \_\_\_\_\_.
  - A. have access to the joints for visual inspection and leak testing
  - B. be self-draining
  - C. be constructed of ABS plastic or equivalent
  - D. be orange in color
  - E. A and B
13. Typically, the minimum backfilled cover above the enclosure for buried piping outside of buildings shall be \_\_\_\_\_.
  - 18 inches
  - 24 inches
  - 36 inches
  - 48 inches
14. A continuous warning marker under piping shall be placed \_\_\_\_\_.
  - A. 6 inches below grade
  - B. at 1/2 the burial depth
  - C. immediately above the enclosure
  - D. B and C
15. Brazed joints shall use a brazing filler metal that melts in excess of \_\_\_\_\_.
  - 1000 degrees F
  - 1125 degrees F
  - 1127 degrees F
  - 1309 degrees F
16. Brazing flux is required \_\_\_\_\_.
  - on all joints
  - on copper to copper joints
  - on only dissimilar metal joints
  - never

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17. The recommended methods for cleaning exterior tub ends prior to brazing are \_\_\_\_\_.
- clean non-shedding abrasive pads
  - steel wool
  - sand cloth
  - all of the answers provided
18. After being abraded, the surfaces of the exterior of the tub shall be wiped using \_\_\_\_\_.
- a clean paper towel
  - a clean, lint-free white cloth
  - an oil free industrial wiping cloth
  - all of the answers provided
19. Joints shall be brazed within \_\_\_\_\_ after the surfaces are cleaned and prepared.
- 1 hour
  - 2 hours
  - 3 hours
  - 8 hours
20. When brazing, a purge gas of \_\_\_\_\_ must be used to prevent the formation of copper oxide on the inside surfaces of the joint.
- oxygen
  - nitrogen, dry, oil-free
  - filtered air
  - neon
21. A pressure regulator alone may be used to control the purge gas.
- True
  - False
22. The flow of purge gas shall continue until \_\_\_\_\_.
- the brazing material solidifies
  - 5 minutes after brazing is continued
  - the joint is cool to the touch
  - all of the answers provided
23. When using the autogenous orbital welding process, joints shall NOT be continuously purged inside and outside with inert gas (es) in accordance with the qualified welding procedure.
- True
  - False

## Quiz 11

1. Pipe labels shall be at intervals not more than \_\_\_\_\_.
- 10 feet
  - 15 feet
  - 20 feet
  - 25 feet
  - 30 feet
2. There shall be at least \_\_\_\_\_ in every room.
- 1 pipe label
  - 2 pipe labels
  - 3 pipe labels
  - not addressed in code
3. Pipe labels shall appear on both sides of walls or partitions penetrated by the piping.
- True
  - False
4. Code requires that visual indicators must remain in alarm until the situation that has caused the alarm is resolved.
- True
  - False
5. At 3 feet away from the alarm, how loud must the alarm be?
- 75 Db.
  - 80 Db.
  - 90 Db.
  - 100 Db.
6. If room numbers are changed, the labeling of alarms corresponding to those room numbers must also be changed in a similar fashion.
- True
  - False
7. The minimum number of air compressors for medical air is \_\_\_\_\_.
- 1
  - 2
  - 3
  - not addressed by code

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8. Pressure relief valves shall be set at \_\_\_\_\_ above line pressure.
  - 50%
  - 100%
  - 200%
  - 250%
  
9. The minimum distance that a compressor air intake shall be from any door, window, exhaust, or other intake is \_\_\_\_\_.
  - 10 feet
  - 20 feet
  - 30 feet
  - 50 feet
  
10. The minimum distance that a compressor air intake shall be above the ground is \_\_\_\_\_.
  - 10 feet
  - 20 feet
  - 30 feet
  - 50 feet
  
11. When penetrating a fire-resistance-rated wall, partition, floor, floor-ceiling assembly, roof-ceiling assembly, or shaft enclosure, the fire resistance rating of the assembly shall be restored to its original rating.
  - True
  - False