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**Quiz 1 – Sections: WAC 296-46B-501 – 514**

Question 1: S.T.E.P. means \_\_\_\_\_.

- Septic Tank Effluent Pump
- Standard Technical Electrical Pump
- State Tested Efficiency Pump

Question 2: The pumping chamber must be adequately vented with a minimum \_\_\_\_\_ vent.

- 1 inch
- 2 inch
- 3 inch
- 4 inch

Question 3: Equipment that in normal operation may cause an arc \_\_\_\_\_ installed in any pumping chamber.

- is allowed to be
- is not allowed to be

- is sometimes allowed to be

Question 4: Float switches installed in a pumping chamber \_\_\_\_\_ hermetically sealed.

- must be
- are not required to be
- are, when inspection is made, required to be
- none of the answers provided

Question 5: Junction boxes and fittings installed in a septic atmosphere \_\_\_\_\_ of a non-corrosive type.

- must be
- are not required to be
- may be

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Question 6: Wire splices in junction boxes installed in pumping chambers \_\_\_\_\_ suitable for wet locations.

- must be
- are not required to be
- only when inspection is made
- none of the answers provided

Question 7: Residential wastewater loading characteristics in a nonresidential installation of less than 3500 gallons of wastewater per day may be certified by \_\_\_\_\_.

- the building department
- the Department of Ecology
- state Wastewater treatment Director
- the Department of Natural Resources
- a professional waste water system design engineer

Question 8: Residential wastewater loading characteristics in a nonresidential installation of more than 3500 gallons of wastewater per day may be certified by \_\_\_\_\_.

- a professional waste water system design engineer
- the local permitting agency
- the plumbing contractor
- department of Ecology
- Wastewater Treatment Association

Question 9: Any residential or nonresidential system that has building or structure floor drains being discharged into the system is classified as \_\_\_\_\_.

- Class I, Division 1
- Class I, Division 2
- Class 2, Division 1
- Class 2, Division 2

Question 10: Drains from any commercially made \_\_\_\_\_ are not considered floor drains.

- showers
- basin
- sink
- toilet
- all of the answers provided

Question 11: Pumping chamber access covers can be covered by \_\_\_\_\_, and must be accessible for excavation.

- gravel
- light aggregate
- non-cohesive granulated soil
- all of the answers provided

Question 12: Indoor grinder pumps installed in chambers with less than \_\_\_\_\_ capacity are not required to meet the requirements for this section.

- 25 gallons
- 35 gallons
- 50 gallons
- 100 gallons

Question 13: Inspection approval is required prior to \_\_\_\_\_ any portion of the septic electrical system, including the pump.

- covering
- concealing
- both of the answers provided
- neither of the answers provided

Question 14: New \_\_\_\_\_ tanks containing electrical wires and equipment must be inspected and approved prior to being loaded with sewage.

- septic
- effluent
- both of the answers provided
- neither of the answers provided

Question 15: An emergency disconnection means or operator must be provided to disconnect the \_\_\_\_\_.

- pump
- dispensing equipment serving gasoline
- volatile flammable liquids
- liquefied flammable gases
- all of the answers provided

Question 16: The \_\_\_\_\_ must disconnect all conductors of the circuit supplying all station dispensers and/or pump, simultaneously from the source(s) of supply.

- emergency disconnecting means
- operator
- both of the answers provided
- neither of the answers provided

Question 17: The emergency stop disconnects what?

- All electrical lines to the gas pumps at the same time.
- Half of the electrical lines to the gas pump.
- Only the electrical lines that are on.

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Question 18: If a disconnecting pushbutton is used, the pushbutton \_\_\_\_\_ function as the resetting mechanism for the electrically held contactor.

- may
- is not required to
- may not

Question 19: The resetting means must be located \_\_\_\_\_ from the disconnecting push button.

- at least 8 ft.
- at least 12 ft.
- at least 15 ft.
- at least 20 ft.
- more than 20 ft.

Question 20: The color of the Identification plate for the reset switch must be \_\_\_\_\_.

- black
- orange
- red
- white
- any color

Question 21: The letters of the emergency stop must be \_\_\_\_\_ high.

- 1/2 inch
- 3/4 inch
- 1 inch
- 2 inches

Question 22: The disconnecting means for attended facilities must be located \_\_\_\_\_.

- outdoors
- indoors
- either indoors or outdoors

## Quiz 2 – Sections: WAC 296-46B-517 – 533

Question 1: Hospital Life Safety System: What article uses the feeder conductor to supply electrical power to the life safety branch?

- Article 100
- Article 200
- Article 220
- Article 240

Question 2: Feeder and equipment will be subject to a \_\_\_\_\_ multiplier for continuous loads in accordance with Article 220 NEC.

- 75%
- 100%
- 125%
- 150%

Question 3: \_\_\_\_\_ must comply with the NEC and this chapter.

- Service equipment
- Separately derived systems
- Feeders and circuits for concerts
- Motion picture productions
- All of the answers provided

Question 4: The ampacity of cables must be determined from what section of the NEC?

- 100
- 200
- 300
- 400
- 500

Question 5: Any circuit used for construction purposes is considered to be \_\_\_\_\_.

- temporary
- permanent
- not adopted by the state of Washington

Question 6: What is required for all wiring connections in a temporary installation?

- A splice
- A junction box
- Both of the answers provided
- Neither of the answers provided

Question 7: An addition to a mobile home that gets its electrical power from the mobile home will require a \_\_\_\_\_.

- permit
- inspection
- both of the answers provided
- neither of the answers provided

Question 8: Electrical wiring in structures that are attached to the mobile/manufactured home is inspected by what section?

- Factory shipping structures
- Factory assembled structures
- Factory designing structures
- No inspection is needed

Question 9: An electrical service on a mobile home must be installed only by \_\_\_\_\_.

- a homeowner
- a certified electrical contractor at the site location
- a journeyman electrician at the site
- a manufacturer during the manufacturing process

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Question 10: For a mobile home that is supplied with power using a permanent wiring method, the equipment grounding conductor \_\_\_\_\_ to be bare.

- will be permitted
- will not be permitted
- will be permitted and inspected every week
- none of the answers provided

Question 11: The equipment-grounding conductor must be \_\_\_\_\_.

- copper
- aluminum
- either copper or aluminum

Question 12: Where electrical power is provided, a floating building \_\_\_\_\_ a readily accessible service rated disconnect.

- must have
- may have
- is not required to have

Question 13: Service rated disconnect must be located on the \_\_\_\_\_ within sight of the shoreline connection of the dock.

- dock
- floating platform
- shoreline
- house boat

Question 14: Where shore power is provided, each floating building or similar facility must have a disconnecting means located within \_\_\_\_\_ of each floating building or similar facility.

- sight
- easy access
- 25 ft.
- 30 ft.

Question 15: The disconnecting means must be installed adjacent to but not \_\_\_\_\_.

- in the floating building
- on the floating building
- on a similar facility
- all of the answers provided

Question 16: A portable cord must have the following, EXCEPT to be:

- extra-hard usage
- not less than 75° C
- rated at least 600 volts
- listed for wet locations

- be yellow in color

Question 17: The maximum voltage conductor that may be installed on the floating portion of a floating building is \_\_\_\_\_?

- 120 Volts
- 240 Volts
- 480 Volts
- 600 Volts
- No limitations

### Quiz 3 – Sections: WAC 296-46B-555

Question 1: The NEC covers private, non-commercial docks.

- True
- False

Question 2: The minimum distance that a transformer can be located above the deck of a dock is \_\_\_\_\_.

- 1 foot
- 2 feet
- 3 feet
- 4 feet
- 5 feet

Question 3: All electrical connections must be installed at the minimum requirement above the deck of a pier unless the connections are approved for \_\_\_\_\_ locations.

- submersible
- damp
- wet
- dry
- water spray

Question 4: The minimum distance that all electrical connections must be installed above the deck of a dock is \_\_\_\_\_.

- 1 foot
- 2 feet
- 3 feet
- 4 feet
- 5 feet

Question 5: For the purposes of NEC 555.10, all enclosures \_\_\_\_\_ corrosion resistant.

- may not be
- must be but not
- must be

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Question 6: All gasketed enclosures must be arranged with \_\_\_\_\_ to discharge condensation.

- a weep hole
- an air vent
- a light hole
- a knock out plug
- a 1/4 inch NPT tap

Question 7: For a portable power cable to be used as permanent wiring it should \_\_\_\_\_.

- be rated at 600 volts
- be sunlight resistant
- be listed for wet locations
- be rated for extra-hard usage
- all of the answers provided

Question 8: Portable power cables are permitted as a permanent wiring method \_\_\_\_\_.

- under or within docks and piers
- where provided with physical protection
- both of the answers provided
- neither of the answers provided

Question 9: Overhead wiring must be installed at the perimeter of areas where boats are \_\_\_\_\_ to avoid possible contact with masts and other parts of boats.

- moored
- stored
- moved
- serviced
- all of the answers provided

Question 10: Power receptacles that provide shore power for boats must be rated not less than \_\_\_\_\_.

- 15 amperes
- 20 amperes
- 30 amperes
- 40 amperes
- 50 amperes

Question 11: Shore power receptacles that provide shore power for boats are required to be a single outlet type, and be of the locking and grounding type or pin and sleeve type.

- True
- False

Question 12: The area directly under a "gas pump" on a dock that could allow the

accumulation of flammable liquid is classified as a \_\_\_\_\_.

- Class 1 division 1 area
- Class 2 division 1 area
- Class 1 division 2 area
- Class 2 division 2 area

### Quiz 4 – Sections: WAC 296-46B-600 – 680

Question 1: Luminaires in outdoor awnings are required to be suitable for \_\_\_\_\_ locations.

- dry
- damp
- wet
- drenched
- underwater

Question 2: Incandescent lamps or luminaires must be located at least \_\_\_\_\_ from the awning fabric.

- 12 inches
- 16 inches
- 18 inches
- 24 inches

Question 3: Fluorescent luminaires must be located at least \_\_\_\_\_ from the awning fabric.

- 6 inches
- 12 inches
- 16 inches
- 18 inches

Question 4: For portable outdoor electrical signs, it is required that a receptacle outlet that is considered weatherproof with the supply cord connected is installed within \_\_\_\_\_ of each electrical sign.

- 6 feet
- 8 feet
- 10 feet
- 12 feet

Question 5: Extension cords are not permitted to supply \_\_\_\_\_.

- portable indoor signs
- stationary indoor signs
- portable outdoor signs
- stationary outdoor signs

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Question 6: The maintenance disconnect and field installed equipment to a hot tub must be located at least \_\_\_\_\_ away.

- 5 feet
- 6 feet
- 8 feet
- 10 feet
- 12 feet

Question 7: The heater must be listed as a \_\_\_\_\_.

- "swimming pool heater"
- "spa heater"
- both of the answers provided
- neither of the answers provided

Question 8: Hydro massage bathtubs must be listed as a unit and bear a listing mark which reads \_\_\_\_\_.

- "Hydro massage bathtub"
- "NEMA approved"
- "Meets NEC Standards"
- "OSHA Compliant"
- None, no marking is needed

Question 9: Electrical components, which have failed and require replacement, are required to be replaced with \_\_\_\_\_.

- identical parts
- like in kind parts
- both of the answers provided
- neither of the answers provided

### Quiz 5 – Sections: WAC 296-46B-700 – 990

Question 1: All places that have space for \_\_\_\_\_ or more persons must install exit and emergency lights.

- 50
- 100
- 250

Question 2: All exit and emergency lights must be installed in accordance with Article \_\_\_\_\_.

- 300 NEC
- 400 NEC
- 500 NEC
- 600 NEC
- 700 NEC

Question 3: Device boxes for fire alarms must be \_\_\_\_\_ in color.

- red
- orange

- silver
- black

Question 4: All device boxes for emergency systems must be \_\_\_\_\_ in color.

- red
- orange
- silver
- black

Question 5: An electrical work permit is valid for only one specific address.

- True
- False

Question 6: An electrical work permit may be posted after the electrical work is completed.

- True
- False

Question 7: An electrical work permit must be obtained and posted at the job site prior to beginning \_\_\_\_\_.

- the installation
- the alteration
- both of the answers provided
- neither of the answers provided

Question 8: An electrical work permit for emergency repairs to existing electrical systems must \_\_\_\_\_ at the job site no later than next business day after the work is begun.

- be obtained
- be posted
- both of the answers provided
- neither of the answers provided

Question 9: The Class A permit for basic electrical work \_\_\_\_\_ the replacement of an enclosure that contains an exempted component or combination of components, such as an electrical furnace/heat pump.

- allows
- does not include
- is only allowed to be used on the weekends for

Question 10: An electrical permit is not required for adding another circuit in a travel trailer.

- True
- False

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Question 11: Which activity is not permitted under a 02 License?

- Installing Romex (non-metallic sheathed cable)
- Installing wiring in a duplex house
- Installing a new branch circuit in a single residence
- Installing wiring for lighting in a residential swimming pool
- Installing wiring in a 4-plex that has 4 levels above grade

Question 12: An 06 license holder may not install \_\_\_\_\_.

- high-voltage circuits
- low-voltage circuits
- intrusion alarms
- lighting control systems

Question 13: On a HVAC service call, it is found that a component must be replaced with a like-in-kind. Which component is NOT considered to be like-in-kind?

- One that is exactly identical to the original component
- One that has the same operating characteristics as the original
- A factory specified replacement component
- One that requires rewiring the original system to work
- None of the answers provided

Question 14: The 06 license permits repair of line voltage parts that are not exclusively controlled by the HVACR system.

- True
- False

Question 15: The 06 license allows replacement or maintenance of line voltage parts that are not exclusively controlled by the HVACR system.

- True
- False

Question 16: An 06 license allows the following activities except \_\_\_\_\_.

- Class 2 low-voltage control circuit wiring/components in all residential occupancies
- replacing line voltage components within HVAC/refrigeration equipment
- installing a 120 V GFIC appliance circuit upstream from the disconnect

- replacing line voltage flexible supply whips not over six feet in length
- all of the answers provided

Question 17: The 06A license specialty is not limited by \_\_\_\_\_.

- voltage
- phase
- amperage
- all of the answers provided

Question 18: The 06A may install HVAC Class 2 low-voltage control circuits in non-residential installation when \_\_\_\_\_.

- the installation does not pass between floors
- the installation is made in a previously occupied and wired space
- the installation is restricted to the HVAC/refrigeration system
- all of the answers provided
- none of the answers provided

Question 19: The 06B may perform work that does not exceed \_\_\_\_\_.

- 110/120 volts
- 250 volts
- 277 volts
- 460/480 volts

Question 20: The 06B may perform work that is limited to \_\_\_\_\_.

- single phase power
- two phase power
- three phase power
- four phase power
- no restrictions on phase

Question 21: The 06B may work on electrical systems that do not exceed \_\_\_\_\_.

- 50 amps
- 100 amps
- 120 amps
- 560 amps
- no restrictions on amps

Question 22: The (06) Limited Energy Systems specialty electrician \_\_\_\_\_ allowed to disconnect and reconnect line voltage like in kind when replacing components inside the low voltage control cabinet.

- is
- is not
- is, only under supervision,

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- not adopted

Question 23: The (06) Limited Energy Systems specialty electrician \_\_\_\_\_ allowed to replace line voltage flexible supply whips shorter than 6 feet, provided there are no modifications to the characteristics of the branch circuit/feeder load being supplied by the whip.

- is
- is not
- is, only under supervision,
- not adopted

Question 24: Which task is allowed with a Telecommunications (09) License?

- installing open wiring systems of telecommunication cables
- fire protection signaling systems
- intrusion alarms
- HVAC/refrigeration control systems
- the installation of line voltage service conductors or equipment

Question 25: The minimum qualifications needed to take the Electrical Administrators exam are \_\_\_\_\_.

- must be a Journeyman electrician
- must be a Master electrician
- must have 5 years of service
- must have a degree in electrical engineering
- no minimum qualifications are needed

Question 26: Revisions for 03 – Pump and Irrigation require that continuing education be \_\_\_\_\_.

- 25% plumbing, 75% electrical
- 50% plumbing, 50% electrical
- 75% plumbing, 25% electrical
- 100% electrical

Question 27: The use of shipyard or shipboard military experience cannot be used for more than \_\_\_\_\_ of the minimum work experience.

- 25%
- 33.5%
- 50%
- 10%

Question 28: Electrical trainees must have \_\_\_\_\_ of classroom training per year to renew their training certificates.

- 4 hours

- 8 hours
- 16 hours
- 24 hours

## Quiz 6 – Sections: RCW 19.28.161 – 381

Question 1: Which statement is true?

- The department may specify which trades may do electrical work.
- The department is permitted to show bias for or against organized labor.
- A homeowner may do electrical work on his personal residence.
- If a person builds a 4-Plex and has no plans to live in a unit, he may wire it himself.
- A lineman performing utility type work needs to have an electrician's license.

Question 2: An electrical contractor is discovered by the department to have hired an unlicensed electrician 30 days ago. The minimum penalty that can be levied against the contractor is \_\_\_\_\_.

- \$50
- \$500
- \$1500
- \$5000
- to shut down the business

Question 3: The maximum penalty would be \_\_\_\_\_.

- \$50
- \$500
- \$1000
- \$15000
- to shut down the business

Question 4: What is the purpose of the Electrical Board?

- To advise the director on all matters pertaining to the enforcement of the RCWs
- To determine minimum inspection procedures
- To adopt rules pertaining to the electrical inspection division
- To make recommendations pertaining to proposed rules or amendments
- All of the answers provided



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Question 5: Who appoints the Chief Electrical Inspector?

- Director of Labor and Industry
- Washington State Attorney General
- Governor of Washington
- It is an elected position.

Question 6: The Chief Electrical Inspector gives the final interpretation of adopted state electrical standards, rules and policies for the department.

- True
- False

Question 7: An electrical inspector must have a minimum of \_\_\_\_\_ of field experience as a journeyman...

- 1 year
- 2 years
- 3 years
- 4 years
- 5 years

Question 8: ...or have \_\_\_\_\_ of electrical training in college in electrical engineering...

- 1 year
- 2 years
- 3 years
- 4 years
- 5 years

Question 9: ...and have \_\_\_\_\_ of continuous practical electrical experience in installation work.

- 1 year
- 2 years
- 3 years
- 4 years
- 5 years

Question 10: A failed inspection will require \_\_\_\_\_.

- a written report of the inspection made by the inspector
- a time and materials estimate needed for the correction
- a copy of the failed inspection to be given to the jurisdiction's building department
- a copy of the failed inspection will be filed with the housing authority
- none of the answers provided

Question 11: Which statement is true?

- Notification of suspension can be sent by regular mail.
- A suspension is effective 30 days after the holder receives notice.
- Any revocation or suspension is subject to review by an appeal to the board.
- An appeal shall be filed within 30 days after notice of the revocation or suspension is given.
- The appeal with the department must be accompanied by a certified check for \$500.

Question 12: Thirty (30) days after a new electrical construction installation was inspected and passed, the tenant in a commercial building was electrocuted because of a defect in the electrical installation. Who is liable in this case?

- The electrician, because he installed it.
- Not the electrician, because it passed electrical inspection.
- The electrical inspector, because he passed the installation.
- The tenant, because he or she should have been more careful around electricity.
- The local power provider, because they provided electricity to the job site.

Question 13: Which statement is true?

- The department may deny renewal of a certificate or license if the applicant owes outstanding penalties for a final judgment.
- The department shall notify the applicant of denial by regular mail to the address on the application.
- The applicant may appeal the denial within 30 days by filing a notice of appeal with the department.
- The appeal must be accompanied by a certified check for \$500.
- The labor board shall conduct the hearing.