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**Quiz 1 Sections: WAC 296-46B-005 – 010**

Question 1: The electrical inspectors will:

- Give information as to the interpretation of WAC standards
- Lay out electrical work
- Act as a consultant for the owners

Question 2: The department may enforce city electrical ordinances where those governmental agencies do not make electrical inspections under \_\_\_\_\_.

- an electrical visits
- an established an program
- a time of an inspection
- none of the answers provided

Question 3: When may a variance from the electrical installation requirements be granted by the department?

- When it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety.
- During emergency conditions.
- In jurisdictions that do not employ a full time inspector.

Question 4: Who may request a variance?

- Only the property owner
- Only the electrical contractor
- Only the licensed electrician on the job site
- Any electrical permit holder

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Question 5: In requesting the variance, the permit holder must make the request in writing, using a form provided by the department, and the variance must include:

- A description of the installation as installed or proposed
- A detailed list of the applicable code violations
- A detailed list of safety violations
- A description of the proposal for meeting equivalent objectives for code and/or safety violations
- All of the answers provided

Question 6: Electrical wiring or equipment subject to this chapter must be \_\_\_\_\_.

- sufficiently accessible
- finished at the time of inspection
- to permit the inspector to verify conformance with the NEC
- all of the answers provided

Question 7: \_\_\_\_\_, fished according to the NEC, do not require visual inspection.

- Cables
- Raceways
- Any of the answers provided
- None of the answers provided

Question 8: Wires pulled into conduit systems \_\_\_\_\_ considered concealed.

- are
- are not
- will be
- will not be

Question 9: All equipment-grounding conductors installed in \_\_\_\_\_ must be installed and made up at the time of the rough-in cover inspection.

- concealed raceways
- cables
- flexible conduit systems
- all of the answers provided

Question 10: If the wiring is inspected prior to the exterior sheathing nail, the wiring and device boxes must be a minimum of \_\_\_\_\_ from the exterior surface.

- 1 inch
- 1 ½ inches
- 2 inches
- 2 ½ inches
- 3 ½ inches

Question 11: Prior to completion of an exterior wall cover inspection, all wiring and device boxes must be protected by a steel plate a minimum of 1.6 mm or \_\_\_\_\_ thick and must cover the area of the wiring or box.

- 1/16 inch
- 1/8 inch
- 3/32 inch
- 5/32 inch
- 1/4 inch

Question 12: In order to meet the electrical safety standards for installation, all \_\_\_\_\_ must conform to applicable standards by the department, be listed, or field evaluated.

- materials
- devices
- appliances
- equipment
- all of the answers provided

Question 13: Other than as allowed in WAC \_\_\_\_\_, equipment must not be energized until such standards are met unless permission is granted by the chief electrical inspector.

- 196-46B-030(3)
- 296-46B-030(3)
- 396-46B-030(3)
- 496-46B-030(3)

Question 14: The inspection of telephone lines along state highway right of ways is conducted by the \_\_\_\_\_.

- Department of Transportation
- Department of Electrical Inspection
- Highway Commission

Question 15: Listed tamper-resistant receptacles or listed tamper-resistant receptacle cover plates are NOT required in:

- All licensed child group care facilities
- All grade schools with children 6 - 10 years of age
- Psychiatric patient care facilities
- They are required at all of the answers provided

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## Quiz 2 Sections: WAC 296-46B-020

Question 1: "Electrical equipment" includes \_\_\_\_\_ and other electrical equipment not exempted by RCW 19.28.006(8).

- electrical conductors
- conduits
- raceways
- apparatus
- all of the answers and more

Question 2: Any \_\_\_\_\_ of a type listed for electrical use is considered to be electrical equipment even if no wiring is installed in the \_\_\_\_\_ at the time of conduit / raceway installation.

- conduit / raceway – conduit / raceway
- wire – raceway
- conduit / raceway – building
- none of the answers provided

Question 3: An \_\_\_\_\_ is a laboratory or firm accredited by the state of Washington to perform certification of electrical products.

- "electrical wiring certification laboratory"
- "electrical products certification laboratory"
- "electrical system laboratory"

Question 4: HVAC means:

- Heating Ventilation Air Conditioning
- High Voltage Alternating Current
- High Vacuum Systems

Question 5: "HVAC/refrigeration system" excludes non-HVAC/refrigeration control systems such as:

- Fire alarm systems
- Pressure cut-offs
- Compressor lube oil protection switches
- None of the answers provided

Question 6: The item that is NOT required for Identification Plate Letters is:

- Letters to be engraved in block letters
- Letters to be at least 1/4 inch
- Letters to be in contrasting colors
- Letters to be on a black background

Question 7: "Like-in-kind" means having similar characteristics, such as:

- Voltage requirement
- Current draw
- Short circuit characteristics
- Functioning within the system
- All of the answers provided

Question 8: "Low voltage" means:

- Less than 240 volts
- Less than 120 volts
- 30 volts maximum
- 12 volts DC or less
- None of the answers provided

Question 9: An organization sponsoring a 1-day HVAC controls course would be classified as a "training school".

- Yes
- No
- Need more information

Question 10: "Under the control of a utility" for the purposes of RCW 19.28.091 and 19.28.101 is when electrical equipment \_\_\_\_\_.

- Is not owned by a utility
- Is located in a vault, room, closet, or similar enclosure that is secured by a lock so that access is restricted to the utility's personnel
- Is under contract, the utility is obligated by contract to maintain the equipment and access is restricted to only utility's personnel or other
- All of the answers provided

Question 11: "Utilization voltage" means the voltage level employed by the utility's customer for connection to \_\_\_\_\_.

- lighting fixtures
- motors
- heaters
- or other electrically operated equipment
- all of the answers provided

Question 12: \_\_\_\_\_ is a modification of the electrical requirements that may be approved by the chief electrical inspector.

- "Variance"
- "Utilization voltage"
- "Under the control of a utility"
- "Training school"

## Quiz 3 Sections: WAC 296-46B-030

Question 1: An "industrial control panel" can be wired by the plant electrician.

- True
- False

Question 2: An industrial control panel could include a cathode ray tube, a power supply, and a line voltage process motor.

- True

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- False

Question 3: An industrial control panel may not include motor branch circuit protective devices.

- True
- False

Question 4: \_\_\_\_\_ means equipment directly used in a manufacturing process in a food processing or industrial plant, in particular the processing, treatment, moving, or packaging of a material.

- "Industrial utilization equipment"
- "Industrial electrical equipment"
- "Industrial plants"

Question 5: \_\_\_\_\_ means to make or process a raw material or part into a finished product for sale using industrial utilization equipment?

- Shipping process
- Moving process
- Manufacturing process
- Selling process

Question 6: "Normal department inspection" is a part of the \_\_\_\_\_ included with the general wiring inspection of building, structure, or other electrical installation.

- department electrical inspection process
- department plumbing inspection process
- is code is not adopted in the state of Washington

Question 7: A "panel" means \_\_\_\_\_.

- a single box
- enclosure containing the components comprising an industrial control panel
- both of the answers provided
- none of the answers provided

Question 8: What panels and equipment will be determined to meet the minimum electrical safety standards for installation?

- industrial control
- industrial utilization
- both of the answers provided
- none of the answers provided

Question 9: Appropriate safety standards are found in the:

- NEC 2009 Handbook
- NFPA 79
- International Electro-technical Commission 60204

- WAC/RCW
- All of the answers provided

Question 10: Once industrial utilization equipment is marked by the department, the equipment is suitable for installation only at a specific location in the state without modification so long as the equipment is being used as industrial utilization equipment.

- True
- False

Question 11: The department may authorize, on a case-by-case basis, use of the industrial control panel or equipment, for a period not to exceed \_\_\_\_\_ before its final inspection, listing, or evaluation.

- 30 days
- 60 days
- 6 months
- 1 year
- None

## Quiz 4 Sections: WAC 296-46B-040

Question 1: Traffic Management Systems include a number of items. Which item is NOT included?

- Traffic illumination
- Traffic signal systems
- Traffic monitoring systems
- Toll booths
- The electrical service cabinet

Question 2: Does the in-ground induction detection loop require an electrical inspection?

- Yes
- No

Question 3: Jurisdictions will be considered owners of traffic management systems when doing \_\_\_\_\_ for other jurisdiction(s) under a valid interlocal agreement, as permitted by chapter 39.34 RCW.

- electrical work
- plumbing work
- inspections
- none of the answers provided

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Question 4: WSDOT and jurisdictions with an \_\_\_\_\_ authority may perform electrical inspection on their rights of way traffic management systems for each other if no inter-local agreement is in effect.

- established plumbing inspection
- established HVAC inspection
- established electrical inspection

Question 5: Underground installations other than \_\_\_\_\_ will be considered “fished” according to the NEC and do not require visual inspection.

- open trenching
- raceways
- both of the answers provided
- none of the answers provided

Question 6: A written request must be made a minimum of \_\_\_\_\_ working days prior to the day inspection is needed.

- 1
- 2
- 3
- 4
- 5

Question 7: The identification plate for a traffic control must be located \_\_\_\_\_.

- on the inside of the cabinet
- on the outside of the front door panel of the cabinet
- nowhere, it is not required

Question 8: All traffic management system \_\_\_\_\_ will be permitted to occupy the same cable, enclosure, or raceway without regard to voltage characteristics.

- panel boxes
- circuits
- switch boxes
- is not required

## Quiz 5 Sections: WAC 296-46B-110 – 225

Question 1: Where metallic plugs or plates are used with nonmetallic enclosures, they shall be recessed at \_\_\_\_\_ from the outer surface of the enclosure.

- 1/16 inch
- 1/8 inch
- 3/16 inch
- 1/4 inch
- 0, ( flush - no recess)

Question 2: The flash protection marking required by NEC 110.16 must be an/a \_\_\_\_\_ approved by the electrical inspector and may be installed either in the field or in the factory.

- identification plate
- label
- both of the answers provided
- none of the answers provided

Question 3: An identification plate is required unless the disconnect is a circuit breaker/fused switch installed within a panel board and the circuit breaker/fused switch \_\_\_\_\_.

- is identified by a panel board schedule
- is in a single family residence
- is in a service less than 60 amps
- all of the answers provided
- none of the answers provided

Question 4: In a commercial building, the identification plate is not required to include the identification designation of the circuit source panel board that supplies the disconnect.

- True
- False

Question 5: Where electrical equipment is installed to obtain a series combination rating, the identification must be in the form of an identification plate that is substantially \_\_\_\_\_ in color.

- yellow
- red
- black
- green

Question 6: Each cable operating at over 600 volts and installed on customer-owned systems must be legibly marked in a permanent manner at each termination point and at each point the cable is accessible. Which marking is NOT required?

- Phase designation
- Operating voltage
- Circuit number
- Wire size

Question 7: On non-dwelling units, GFCIs are \_\_\_\_\_.

- required on 15 amp 1 phase circuits
- required on 20 amp 1 phase circuits
- both of the answers provided
- none of the answers provided

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Question 8: Branch circuits are not required to be taken to all unfinished spaces adaptable to future dwelling unit living areas that are not readily accessible to the service or branch circuit panel board.

- True
- False

Question 9: The maximum number of dwellings for a septic or water well system that can be supplied by one of the dwellings is \_\_\_\_\_.

- one
- two
- three
- no limit

Question 10: Receptacle outlets installed \_\_\_\_\_ appliance garages will be permitted to be counted as a required countertop outlet.

- outside
- inside
- under
- above

Question 11: In determining \_\_\_\_\_, the currently adopted Washington State Energy Code unit lighting power allowance table and footnotes may be used in lieu of NEC 220.3.

- feeder
- service entrance conductor size
- equipment ratings
- all of the answers provided

Question 12: Where the feeder disconnecting means is installed outside a building or structure, it must be on the building or structure or within sight and within \_\_\_\_\_ feet of the building or structure supplied.

- 5
- 10
- 15
- 25
- 50

Question 13: The building disconnecting means may supply only one building unless the secondary building has a separate building disconnecting means. The disconnecting means must have an identification plate with at least \_\_\_\_\_ high letters.

- ½ inch
- ¾ inch
- 1 inch
- 1 1/2 inch

Question 14: The feeder disconnecting means may be installed anywhere inside a \_\_\_\_\_ when there is a feeder disconnecting means, located elsewhere on the premises, with overcurrent protection sized for the feeder conductors.

- building
- structure
- both of the answers provided
- none of the answers provided

## Quiz 6 Sections: RCW 19.28.01 – 0.141

Question 1: \_\_\_\_\_ do not need to be listed, labeled, or otherwise indicated as acceptable by an accredited electrical product testing laboratory.

- Industrial control panels
- Utilization equipment
- Components
- All of the answers provided

Question 2: A \_\_\_\_\_ moved into or within a county, city, or town are not required to comply with all of the requirements of this chapter?

- residential building
- commercial structures
- (any) structure
- Moved structures are exempt.

Question 3: If the same moved building was substantially remodeled, must it comply with the requirements found in the WACs and RCWs?

- Yes
- No

Question 4: A city or town may require a better standard of construction or higher standard of materials if the city \_\_\_\_\_.

- has a population greater than 100,000
- has a City Manager
- is located in Spokane or King County
- none of the answers provided - there are no requirements placed on the city

Question 5: How are disputes regarding local regulation resolved?

- Dispute Resolution Center
- Small Claims Court
- Arbitration
- District Court

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Question 6: The department shall appoint 2 members to serve on the panel and the city shall appoint 2 members. What is the total number of members to serve on the panel?

- 4
- 5
- 6
- 8

Question 7: An electrical contractor's license is needed when:

- Running a new 240v circuit
- Cleaning the outdoor coil of a heat pump
- Running electrical load calculations

Question 8: What is required to be included with an electrical contractor application?

- Name, address and employer social security number
- Employee race, national origin and sexual orientation
- Electrical education and experience
- All of the answers provided

Question 9: The amount of the bond shall be:

- \$2,000
- \$4,000
- \$6,000
- \$10,000

Question 10: Which is not a specialty electrical contractor?

- Pump and Irrigation
- HVAC
- Signs
- Appliance repair
- None of the answers provided

Question 11: To become a general or specialty electrical contractor, the applicant must possess a valid \_\_\_\_\_.

- master journeyman electrician's certificate of competency
- master journeyman electrician's certificate of completion
- both of the answers provided
- none of the answers provided

Question 12: To become a specialty electrical contractor, the applicant must possess a valid master journeyman electrician's certificate of competency in the specialty for which the application has been made.

- True

- False

Question 13: To become a general electrical contractor, the applicant must possess a valid general administrator's certificate.

- True
- False

Question 14: To become a specialty electrical contractor, the applicant must possess a valid specialty administrator's certificate for the specialty for which the application has been made.

- True
- False

Question 15: A purpose and function of the board is to establish electrical \_\_\_\_\_ licenses.

- journeyman's
- contractors'
- none of the answers provided
- both of the answers provided

Question 16: A purpose and function of the board is to establish and administer written examinations for general electrical administrator's certificates.

- True
- False

Question 17: Which statement is true?

- Each electrical contractor shall have a firm member as a Master Electrician or Administrator.
- The Administrator may be a part-time supervisory employee.
- An individual may work for more than one contractor.
- If the Administrator is terminated, the contractor has 120 days to hire another administrator.
- The contractor has 14 days to contact the department if the administrator dies.

Question 18: Which statement is true?

- The Administrator's license expires on the holder's birthday.
- The Administrator's license must be renewed every 2 years.
- The Administrator must take 4 hours annually of a department-approved continuing education class.
- Upon renewal, the administrator must retake the test.

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Question 19: Can the department accept a continuing education course offered in another state as meeting the requirements for maintaining a current Washington state certificate?

- Yes
- No
- Yes if it's completed on the same day

Question 20: What is the current fee for an electrical administrator's certificate?

- \$68.10
- \$102.15
- \$57.95
- \$202.67

Question 21: Which statement is NOT TRUE?

- The department may deny an application for an administrator's certificate for up to two years if the applicant's previous administrator's certificate has been revoked for a serious violation.
- A serious violation is a violation that is classified as a Class 1 or Class 2 Felony or Misdemeanor.
- The certificate may be renewed for a three-year period without examination by appropriate application unless the certificate has been revoked.
- A person may take the administrator's examination as many times as necessary to pass without limit.

Question 22: The designated master electrician or administrator shall be \_\_\_\_\_ and shall be available during working hours to carry out the duties of an administrator.

- a member of the firm
- a supervisory employee
- both of the answers provided
- none of the answers provided

Question 23: The designated master electrician or administrator shall ensure that all electrical \_\_\_\_\_ required to perform electrical work are used.

- labels
- permits
- licenses
- all of the answers provided

Question 24: The designated master electrician or administrator shall notify the department in writing within \_\_\_\_\_ if the master electrician terminates the relationship with the electrical contractor.

- 1 day
- 5 days
- 10 days
- 1 month

## Quiz 7 Sections: RCW 19.28.081 – 141.0

Question 1: Which activity requires an electrical license?

- Utility personnel working on transmission lines.
- Utility personnel working a side job on a commercial establishment.
- Mechanic installing 12 v lights on a farm tractor.
- Mechanic installing 12 v lights on a licensed motor vehicle.
- Hooking up a meter on a commercial property

Question 2: The director shall cause an inspector to inspect \_\_\_\_\_ to which this chapter applies.

- all wiring
- all appliances
- all devices
- all equipment
- all of the answers provided

Question 3: Upon request, electrical inspections will be made by the department within \_\_\_\_\_ excluding holidays, Saturdays, and Sundays.

- 24 hours
- 36 hours
- 48 hours
- 72 hours

Question 4: Is it unlawful for any person to reconnect such defective conductors or equipment without the approval of the department?

- No
- No, if the supervisor is there with you
- Yes
- Yes, but the supervisor has to be in eye contact

Question 5: The director, through the electrical inspector, has the right during reasonable hours to enter a building and make an electrical inspection.

- True
- False



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Question 6: No \_\_\_\_\_ to this chapter may be concealed until the inspector making the inspection has approved it.

- electrical wiring
- equipment
- both of the answers provided
- none of the answers provided

Question 7: At the time of the inspection, \_\_\_\_\_ must be sufficiently accessible to permit the inspector to employ any testing methods that will verify conformance with the NEC and other requirements?

- electrical wiring
- equipment
- both of the answers provided
- none of the answers provided

Question 8: An electrical work permit fee of \_\_\_\_\_ will be charged for plug-in mobile homes, recreational vehicles, or portable appliances.

- \$100 a day
- \$250 a day
- \$10 by the hour
- there is no fee to be charged

Question 9: Electrical permits are required for linemen to work on utility-owned equipment.

- True
- False

Question 10: There is a section in this chapter that authorizes the inspection of some wiring owned by or under the control of the utility.

- True
- False

Question 11: It is unlawful for any person, firm, partnership, corporation, or other entity to install or maintain any \_\_\_\_\_ not in accordance with this chapter.

- electrical wiring
- appliances
- devices
- equipment
- all of the answers provided

Question 12: What is the amount of the certified check when requesting a ruling from the board on an electrical issue?

- \$100
- \$200
- \$500
- \$1,000

Question 13: What range of monetary penalty could be assessed against a person or a firm violating RCW 19.28?

- \$50 - \$1,000
- \$50 - \$5,000
- \$50 - \$10,000

Question 14: How many days do you have to file an appeal?

- 10
- 20
- 30
- 60

Question 15: The appeal must be accompanied by a certified check for \_\_\_\_\_.

- \$10
- \$50
- \$100
- \$200

Question 16: What provisions of what RCW do not apply?

- 19.28.100 – 19.28.041 / 19.28.300 – 19.28.362
- 19.28.010 – 19.28.141 / 19.28.311 – 19.28.361
- 19.28.010 – 19.28.141 / 19.28.310 – 19.28.360
- 19.28.010 – 19.28.140 / 19.28.311 – 19.28.365

Question 17: The provisions of RCW shall not apply to the \_\_\_\_\_.

- work of installing
- maintaining or repairing any and all electrical wires
- apparatus located outdoors used exclusively for that purpose
- all of the answers provided