

Quiz 1 Statutes

True/False

Indicate whether the statement is true or false.

- ___ 1. A “major code interpretation” means a code interpretation decision that affects or may affect more than one job site or more than one inspection jurisdiction.
- ___ 2. A “class B limited energy technician may install and repair all limited energy systems.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 3. In Oregon, which of the following is exempt from licensing?
1. Street lighting
 2. Commercial exterior lighting
 3. Parking lot lighting
 4. Residential exterior lighting
- ___ 4. A journeyman electrician and an apprentice are on a job. They get a call that the supervisor has resigned the firm. The electrical contractor has indicated that he is looking for a new supervisor and instructs the journeyman and the apprentice to complete the work. The job they are working on has a valid permit when they started that morning. The requirements for the journeyman and the apprentice are:
1. to follow the direction of the electrical contractor
 2. send the apprentice home and the journeyman continue to work
 3. pack up and leave the jobsite, return to the office
 4. None of these
- ___ 5. A licensed LEA may install a fire alarm system for his neighbor_____.
1. when the neighbor pulls the permit
 2. if the LEA works for a restricted energy contractor who acquires the permit for the installation
 3. because the homeowner does not need a permit to have a residential fire alarm installed on his/her own property that they own
 4. when he does it for free or no compensation
- ___ 6. A lumber mill has had a major feeder go down and destroy the feederpanel and transformer. No permit is required if the following person(s) do the work.
1. General journeyman
 2. Apprentice
 3. General supervisor
 4. None of these
 5. All of these
- ___ 7. The electrical statutes do not apply to which of the following;
1. KGW TV transmission equipment
 2. PGE transformer on a rural farm
 3. Comcast network interface unit
 4. all of the above
 5. none of the above
- ___ 8. A minor label is specifically referenced in the Oregon Revised Statutes and described as a(n)
1. service tag
 2. installation label
 3. bulk label
 4. electrical label
- ___ 9. Chapter 479 of the Oregon Revised Statutes covers_____.
1. the installation of electrical systems
 2. fire sprinkler and alarm systems
 3. protection of buildings from fire and electrical safety law
 4. smoking in public elevators

- ___ 10. The *National Electrical Code*® is a minimum ___ standard.
1. quality
 2. safety
 3. product specification
 4. electrical product listing
- ___ 11. Which of the following is correct in describing industrial electrical equipment:
1. A permit is required for installation
 2. A permit and license is required to install the equipment
 3. No permit is required
 4. No license or permit is required for the installation for the equipment
 5. None of these apply
- ___ 12. The Oregon Revised Statutes clarifies that a _____ is not required to obtain a license to make an electrical installation on residential or farm property if it is owned by the same entity.
1. contractor
 2. bank
 3. housing authority
 4. person
- ___ 13. What entity is allowed to have people it employs make repairs to electrical apparatus and systems on property that is not necessarily a single family dwelling or farm without a license?
1. the power company
 2. an electrical contracting firm
 3. telecommunications company
 4. housing authority
- ___ 14. What organization actually develops and publishes the *National Electrical Code*?
1. American National Standards Institute
 2. National Fire Protection Association
 3. National Electrical Manufacturers Association
 4. none of these
- ___ 15. OSHA is an abbreviation for ____.
1. Organization for Safe and Harmless Acts
 2. Oceanic Safe Heights Association
 3. Organized Sites for Healthy Actions
 4. Occupational Safety and Health Administration
- ___ 16. Upon receiving payment of the applicable application fee, the Department of Consumer and Business Services may issue or renew a license or permit applied for under ORS 479.510 to 479.945. The fee to apply for or renew a license is:
1. \$150 General journeyman electrician
 2. \$25 General journeyman electrician
 3. \$100 General journeyman electrician
 4. \$125 General journeyman electrician
- ___ 17. Limited energy activities not subject to licensing are as follows:
1. cable tv, vacuum systems, audio and stereo in one an two family dwellings
 2. telephone, doorbells, cable tv in all buildings
 3. landscape sprinkler control, data systems, audio and stereo systems in commercial buildings
 4. nurse call, fiber optic, boiler control, remote control lighting and intercom
- ___ 18. A landscape contractor may install sprinkler control and outdoor lighting that does not exceed
1. 60-volts and 300VA
 2. 30-volts and 750VA
 3. 120-volts and 1000VA
 4. 30-volts and 100VA
- ___ 19. According to the Law, the state legislature specifically requires that _____ enforce the statutes in regards to electrical law in the State of Oregon.
1. electrical inspectors
 2. the Electrical and Elevator Board
 3. the BCD administrator
 4. the chief electrical inspector
 5. all of these

- _____ 20. A solar photovoltaic plant is importing and installing silicon extrusion equipment manufactured in China. The requirements for installing this equipment in Oregon is_____.
1. purchasing a proper permit and use a licensed electrical contractor with properly licensed electricians to perform the installation
 2. that no license or permits are required to install industrial equipment when installed by authorized agents of the equipment manufacturer
 3. that no license or permit is required when installed by a licensed electrical contractor with properly licensed electricians to perform the installation
 4. that in all cases, stqte law does not exempt industrial equipment from the requirements of permits and licensing
- _____ 21. Which of the following permits allows a general journeyman to continue working to the cope of his license when the signing supervisor resigns his position with the electrical contractor?
1. master permit
 2. minor labels
 3. one and two family
 4. all of these
 5. none of these
- _____ 22. The statement,"To assure the public that persons making electrical installations in this state are qualified by experience and training" is a mandatory statement found in which section of the statutes?
1. Exemptions
 2. Purpose
 3. Certain Licenses required
 4. Requirements for obtaining licenses
 5. None of these
- _____ 23. In all dwelling units, a general use receptacle is not required:
1. to serve wall counter spaces over 12 inches wide.
 2. on a 4' by 6' balcony with no stairway to the ground.
 3. in an unfinished basement.
 4. in an alcove more than 2' deep and 3' feet long.
 5. a receptacle is required in all of these locations.
- _____ 24. A general supervising electrician in Oregon is authorized to design an electrical installation:
1. of any photo voltaic system.
 2. in locations deemed by the fire marshal as hazardous.
 3. for customers of an electrical contractor that continuously employs him.
 4. in all commercial and residential applications.
 5. in manufacturing plants.
- _____ 25. Which of the following medical equipment has partial exemption from licensing in the State of Oregon?
1. PET, X-Ray, Photometric
 2. CT, CATV, CATVX
 3. MRI, Panographic, Dental radiographic
 4. DAT, GEMI, Zeus
- _____ 26. Mandatory inspections include;
1. service, feeders
 2. receptacles, switches
 3. data, fire alarm
 4. None of these
- _____ 27. The following definition applies to which license type?
 "Shall work under the supervision, direction and control of a general supervising electrician unless doing the type of work that may be supervised, directed or controlled by a person holding a specific limited supervising electrician license, or the type of work requiring no supervision."

- | | |
|---|--|
| 1. Limited Residential Electrician | 4. General Journeyman |
| 2. Limited Journeyman Manufacturing Plant Electrician | 5. Apprentices |
| 3. Limited Renewable Energy Technician | 6. Limited Maintenance Manufactured Structures Electrician |

___ 28. A partial exemption from electrical product certification is created under ORS 479.540 for distribution equipment operating at over 600 volts only when:

- | | |
|--|---------------------|
| 1. the installer provides the local jurisdiction with written evidence that the equipment meets the appropriate standards within 72 hours of installation. | 3. neither of these |
| 2. the product is used in an emergency repair or installation | 4. both of these |

___ 29. When you have been asked to participate in an electrical installation at a relative's property, which statement related to the provisions of Oregon law are not true in allowing you to do work?

- | | |
|---|---|
| 1. I am doing the work for my mother's sister | 3. I am doing the work for my mother and my father |
| 2. I am doing the work for my mother's domestic partner | 4. I am doing the work for my brother and his wife and kids |

___ 30. An inspection has been requested at a property that is 75 miles away from the inspectors office. The inspector must comply with the request by completing the inspection within_____ or must _____.

- | | |
|---|--|
| 1. 48 hours, allow cover to occur | 3. a reasonable time, extend by mutual agreement |
| 2. forty-eight hours, not exceed 7 days | 4. 3 days, allow a cover and final to occur |

Quiz 1 Statutes Answer Section

TRUE/FALSE

1. ANS: T

479.853 Appeal procedure; distribution of major code interpretation decisions.

PTS: 1

2. ANS: F

479.905(2) "Class B limited energy technician" means a person licensed to install, alter and repair all limited energy systems that do not include protective signaling.

PTS: 1

MULTIPLE CHOICE

3. ANS: 1

479.540(4)(b) A license is not required for:

(B) A street lighting system located on a public street or in a right of way if the system is similar to a system provided by a public utility and the installation or maintenance, or both, is performed by a qualified employee of a licensed electrical contractor principally engaged in the business of installing and maintaining such systems

PTS: 1

4. ANS: 3

479.560 Issuance of permit; when permit becomes void; master electrical inspection permit. (1) The Department of Consumer and Business Services or a designated agent shall issue a permit to:

(2) A permit issued to an electrical contractor upon the request of the contractor's supervising electrician is void upon the end of the employment of such supervising electrician before completion of the electrical installation.

PTS: 1

5. ANS: 2

479.910 Restricted energy electrician's license; compliance with other laws; fees; continuing education. (2) A person licensed under ORS 479.915 shall comply with the permit and code compliance requirements under ORS 479.510 to 479.945 and 479.995.

No exemptions exist under 479.540 for a licensed individual to perform work without a permit acquired by the restricted energy contractor for the LEA's neighbor. He must perform the installation for the neighbor through the electrical contractor that he works for.

PTS: 1

6. ANS: 5

479.540(7) In cases of emergency in industrial plants, a permit is not required in advance for electrical installation made by a person licensed as a general supervising electrician, a general journeyman electrician or an electrical apprentice under ORS 479.630 if an application accompanied by appropriate fee for a permit is submitted to the Department of Consumer and Business Services within five days after the commencement of such electrical work.

PTS: 1

7. ANS: 4
479.540 (5)(a), (9)(b) & (c).

PTS: 1

8. ANS: 2
479.530 Definitions (15) “Installation label” means an adhesive tag issued by governmental agencies that administer the Electrical Safety Law to licensed electrical contractors for application to those minor electrical installations for which the board by rule determines to be appropriate for random inspections.

PTS: 1

9. ANS: 3
Chapter 479 — Protection of Buildings from Fire; Electrical Safety Law

PTS: 1

10. ANS: 2 PTS: 1 NAT: Objective 102.4 ABank
MSC: EWR Unit 1

11. ANS: 4
479.540(8)(a) A license or permit is not required for the installation or assembly of industrial electrical equipment by the duly authorized agents of the factory, vendor or owner.

PTS: 1

12. ANS: 4
479.540(1) Except as otherwise provided in this subsection, a person is not required to obtain a license to make an electrical installation on residential or farm property that is owned by the person or a member of the person’s immediate family if the property is not intended for sale, exchange, lease or rent.

PTS: 1

13. ANS: 4
479.540(4)(a) A person is not required to obtain a license for the repair or replacement of light fixtures, light switches, lighting ballast, electrical outlets or smoke alarms in a building used for housing purposes that is owned, leased, managed or operated by a housing authority and the person doing the repair or replacement is a member of the housing authority’s regular maintenance staff.

PTS: 1

14. ANS: 2 PTS: 1 NAT: Objective 102.4 ABank
MSC: EWR Unit 1

15. ANS: 4 PTS: 1 OBJ: Objective 102.4 Worksheet
NAT: Objective 102.4 ABank

16. ANS: 3

479.840 Fees; rules; means to guarantee payment. (1) Upon receiving payment of the applicable application fee, the Department of Consumer and Business Services may issue or renew a license or permit applied for under ORS 479.510 to 479.945. The fee to apply for or renew a license is:

(a) \$125 per year for an electrical contractor license for each place of business operated by the applicant.

(b) \$125 per year for a limited energy contractor, restricted energy contractor or limited sign contractor license.

(c) \$25 per year for a pump specialty contractor or limited maintenance specialty contractor license.

(d) \$150 per year for an elevator contractor license.

(e) \$100 for a three-year license for a:

(A) General journeyman electrician;

(B) General supervising electrician;

(C) Limited supervising industrial electrician;

(D) Limited supervising manufacturing plant electrician;

(E) Limited maintenance industrial electrician;

(F) Limited maintenance manufactured dwelling or recreational vehicle electrician; or

(G) Limited journeyman manufacturing plant electrician.

(f) \$50 for a three-year license for a:

(A) Limited elevator journeyman;

(B) Class A or Class B limited energy technician;

(C) Limited journeyman sign electrician;

(D) Limited journeyman stage electrician; or

(E) Limited building maintenance electrician.

PTS: 1

17. ANS: 1

479.940 Activities not subject to licensure under ORS 479.510 to 479.945; identification cards.

(1) The licensure provisions of ORS 479.510 to 479.945 do not apply to the following activity on Class II and III systems in one and two family dwellings regulated under the Low-Rise Residential Dwelling Code:

(a) Prewiring of cable television and telephone systems owned by the owner of the residence;

(b) Garage door openers;

(c) Vacuum systems;

(d) Audio and stereo systems;

(e) HVAC;

(f) Landscape sprinkler controls;

(g) Landscape lighting; and

(h) Doorbells.

PTS: 1

18. ANS: 2

479.940(3)(a) The licensure provisions of ORS 479.510 to 479.945 do not apply to a landscape contracting business licensed under ORS 671.510 to 671.760 when making installations of landscape irrigation control wiring and outdoor landscape lighting involving a Class II or Class III system that does not exceed 30 volts and 750 volt-amperes.

PTS: 1

19. ANS: 2

479.810 Administration and enforcement; Chief Electrical Inspector; inspector qualifications; rules. (1) The Electrical and Elevator Board shall administer and enforce ORS 479.510 to 479.945 and 479.995.

PTS: 1

20. ANS: 2

ORS 479.(8)(a) A license or permit is not required for the installation or assembly of industrial electrical equipment by the duly authorized agents of the factory, vendor or owner.

(b) The license and permit exemptions of this subsection do not apply to activity in an area where industrial electrical equipment is installed in or enters a hazardous location or penetrates or enters a fire rated assembly or plenum rated assembly.

(c) As used in this subsection:

(A) "Duly authorized agents" means individuals trained by the factory or a vendor or by experience and who are knowledgeable in the operation, maintenance, repair and installation of industrial electrical equipment.

(B) "Installation or assembly" means the reassembly at a job site of equipment that is wired and assembled at the factory and then disassembled for shipping purposes or of existing equipment that is relocated. "Installation or assembly" does not include work involving field fabricated assemblies or any other electrical product that is not an original part of the industrial electrical equipment. "Installation or assembly" does not include the connection of industrial electrical equipment to a power source.

PTS: 1

21. ANS: 5

479.560 Issuance of permit; when permit becomes void; master electrical inspection permit; rules.

PTS: 1

22. ANS: 2

479.520 Purpose. The purpose of the Electrical Safety Law is to protect the health and safety of the people of Oregon from the danger of electrically caused shocks, fires and explosions and to protect property situated in Oregon from the hazard of electrically caused fires and explosions. To accomplish this purpose the Legislative Assembly intends to provide a procedure:

(1) For determining where and by whom electrical installations are being made and where electrical products are sold in this state.

(2) To assure the public that persons making electrical installations in this state are qualified by experience and training.

PTS: 1

23. ANS: 5

210.52, OAR 918-305-0130(3)(a)

PTS: 1

24. ANS: 3 PTS: 1

25. ANS: 3

918-261-0000

Partial Exemption for Medical Diagnostic Imaging and Therapy Equipment

(1) An exemption from electrical licensing of ORS 479.620 is created under ORS 479.540 for certain persons installing or working on designated medical equipment under this rule.

(a) Only the following medical equipment can be involved: General X-ray systems, vascular systems, computer tomography scanners (CT), magnetic resonance imaging systems (MRI), nuclear medicine systems, positron emission tomography scanners (PET), radiation therapy systems, image-guided therapy systems, dental radiographic, panoramic systems, film processors and newly developed imaging or therapy equipment approved by order of the board

PTS: 1

26. ANS: 1

918-271-0040

Mandatory Inspections

(1) Electrical inspectors shall inspect appropriateness of the size, placement, protection and termination of the following electrical installations, note discrepancies and require correction of code violations:

(a) Service entrance conductors;

(b) Service equipment;

(c) Grounding electrode and grounding electrode conductor;

(d) Bonding;

(e) Overcurrent protection;

(f) Branch circuits;

(g) Feeders;

(h) Ground-fault circuit interrupter devices (GFCI) and ground-fault protection systems (GFP); and

(i) Underground installations.

PTS: 1

27. ANS: 4

918-282-0170

General Journeyman License

(1) A general journeyman:

(a) Is authorized to make any electrical installation; and

(b) Shall work under the supervision, direction and control of a general supervising electrician unless doing the type of work that may be supervised, directed or controlled by a person holding a specific limited supervising electrician license, or the type of work requiring no supervision.

PTS: 1

28. ANS: 4

918-261-0034

Product Certification Partial Exemption

(1) A partial exemption from electrical product certification is created under ORS 479.540 for distribution equipment operating at over 600 volts only when:

(a) the product is used in an emergency repair or installation as defined in section (4); and

(b) the installer provides the local jurisdiction with written evidence that the equipment meets the appropriate standards within 72 hours of installation.

(2)The exemption is restricted to repairs or installations that include the following:

(a) cable and associated fittings that meet the standards of the serving utility; or

(b) pad-mounted switch gear that meets ANSI IEEE C37.73-1998 or C37.74-2003, or the equivalent and appropriate standard in effect at the time the product was manufactured.

(3) A jurisdiction may require product certification or take other appropriate steps if any of the circumstances in section (1) and (2) do not exist.

(4) For the purposes of this rule, emergency repair or installation means an acute, unplanned and immediate need for electrical repair or replacement involving an existing electrical installation or electrical product.

PTS: 1

29. ANS: 1

918-261-0040

Interpretation of "Owner" in ORS 479.540(1)

For the purposes of ORS(3) "Immediate family" of an owner includes the owner's:

(a) Parent;

(b) Step-parent or parent's domestic partner;

(c) Sibling and sibling's spouse or domestic partner;

(4) "Immediate family" of an owner does not include the owner's step-sibling, aunt, uncle, cousin, step-grandchild, or step-grandparent.

PTS: 1

30. ANS: 3

918-271-0020

Requests for Inspection and Notice of Re(2) The inspecting jurisdiction shall inspect an installation at a remote location within a reasonable time of the request.

(a) For the purpose of this section a "remote location" is:

(A) An inspection location that is more than 60 miles one way using the most direct route, measured from the closest of the inspector's station, inspection office or the inspecting jurisdiction's primary offices; or

(B) An inspection location that requires more than one hour of normal driving, one way, using the most direct route from the closest point mentioned in paragraph (A) of this subsection.

(b) For the purposes of this section "within a reasonable time" means a response time that takes into account the time, distance and number of inspection requests, but shall not exceed seven consecutive calendar days including the date the request was received unless the time for inspection is extended to a set date by mutual agreement. If the seventh calendar day falls on a weekend or holiday this is extended to include the next business day.

PTS: 1