

14.6.6.10 ELECTRICAL CLASSIFICATIONS. COMMENT DRAFT 5/9/2012

A. General information.

(1) A journeyman certificate of competence in the appropriate trade classification for the work to be performed is required of all individuals performing electrical wiring; provided however, that an apprentice, as defined in Section 60-13-2 of the act, may work under the direct supervision of a validly certified journeyman, as defined in Section 60-13-2 of the act, who is employed by a validly licensed person, as defined in Section 60-13-2 of the act, or a holder of a valid annual permit. Journeyman certifications shall be issued such that the certificates parallel the electrical license classification numbers and scopes. Ratio of unregistered apprentices. The ratio of certified journeyman to unregistered apprentices must not exceed:

- (a) one journeyman to two unregistered apprentices on commercial or industrial work;
- (b) one journeyman to two unregistered apprentices on commercial or industrial special systems low-voltage work;
- (c) one journeyman to three unregistered apprentices on residential work.

(2) Conduit installation: All conduit installations within, or on, buildings shall be performed by a contractor holding a EE-98 license, except where ER-1 licensees and journeymen are installing conduit that is incidental to residential wiring. Specialty electrical license holders (ES-1, 2, 3, and 7) shall not install conduit within, or on, buildings.

(3) Electrical contracting defined: The definition of contracting is set forth in Section 60-13-3 of the act, and nothing in this rule shall be construed to conflict with that definition. However, for the purposes of clarity in this rule, contracting is understood to include installations, alterations, repairs, servicing and maintenance involving electrical work.

(4) Electrical customer-owned distribution systems are subject to all adopted codes, standards, and regulations. Customer-owned distribution systems include all (non-utility owned or operated) overhead or underground primary or secondary voltage electrical power line construction, installation, alteration, repairs, and maintenance.

B. License classifications.

(1) Residential and commercial.

(a) **EE-98. Residential and commercial electrical wiring 5000 volts, nominal or less.** Requires four years experience. Includes all electrical wiring operating at 5000 volts, nominal, or less, electrical wiring identified in electrical specialty classifications ES-1, ES-2, ES-3 and ES-7, residential electrical wiring identified in classification ER-1, and only trenching and ductwork associated with classification EL-1. Does not include electrical wiring defined in the EL-1 classification other than trenching and duct work as specified above. May bid and contract as the prime contractor of an entire project provided the electrical contractor's portion of the contract, based on dollar amount, is the major portion of the contract.

(b) **ER-1. Residential electrical wiring.** Requires two years experience. Includes one- and two-family dwelling units and multi-family dwellings when all such units are all on the ground floor with no occupancies above or below, as set forth in 14.10.4 NMAC. May not install wiring for commercial use, such as motels, hotels and similar occupancies. May not contract for more than four (4) dwelling units in any single building or structure.

(c) **EL-1. Electrical distribution and transmission systems over 5000 volts, nominal.** Requires four years experience. Includes all electrical wiring operating at over 5000 volts, nominal, including overhead or underground electrical distribution and transmission circuits, equipment, associated towers, tower foundations and other supporting structures, trenching and ductwork and sub-stations and terminal facilities. Does not include any electrical wiring specified on other electrical classifications EE-98, ER-1, ES-1, ES-2, ES-3 or ES-7.

(2) Specialty licenses.

(a) **ES-1. Electrical signs and outline lighting.** Requires two years experience. Electrical signs and outline lighting, including electrical wiring to connect signs installed where a "sign circuit" has been provided within ten (10) feet, and concrete for the foundation of poles, and build structures for the support of such signs. Outline lighting is an arrangement of incandescent lamps or gaseous tubes to outline and call attention to certain features such as the shape of a building or the decoration of a window and may or may not contribute to the general illumination of an area.

(b) **ES-2. Cathodic protection and lightning protection systems.** Requires two years experience. Electrically activated systems to prevent galvanic damage to metallic pipelines or structures, usually underground and electrical work involved in the equipment for connection rectifier systems. Also includes lightning protection systems. May not install the service riser, main service or service grounding.

(c) **ES-3. Low voltage special systems (under 50 volts).** Requires two years experience. Public address or other sound, voice communication systems normally involving low energy signal circuits. Also, electrical burglar and fire alarm systems, computer data systems, one and two family and multifamily dwelling telephone systems and cable TV systems normally involving coaxial cable for the purpose of transmitting R.F. signals and other intelligence by wire and cable. Includes other low voltage specialty systems such as, but not limited to, door and gate operated control circuits, and temperature control circuits. An installer of TVROs (dishes) is not required to have a

contractor's license when the installation is in a single-family dwelling and does not require the use of 120 volts for tracking.

(d) ES-7. Telephone communication systems. Requires two years experience. In-plant and out-plant telephone systems, telephone interconnections in public or privately owned buildings, computer data systems and underground cables or aerial supporting structures, trenching, duct work, terminal facilities, repeaters, including the installation of instruments at their terminating locations. Interior wiring of a building housing any of the above equipment requires an EE-98 classification. **Note:** Refer to GF-9 classification for additional underground telephone cable installations. The GF-9 classification does not include electrical raceway installation.

(e) ES-10 R. Residential water well pump installer. Requires two years experience. This classification covers Residential water well pumps, 120/240 volts, or less single phase 15 HP or less. Install, maintain, repair or replace electrical equipment, wiring, and accessories used in connection with water well pump systems, including single phase variable frequency drives. Also includes subpanels, luminaires, and receptacle outlets installed within the well pit or well enclosure; Branch circuit or feeder conductors from the service equipment or panelboard to the well pump location; Incidental excavation, trenching and solar photo-voltaic arrays 5 kW or less when dedicated to pumping equipment. This classification does not include systems over 240 volts, pumps over 15 HP, electrical services, building wiring or any other electrical wiring.

(f) ES-10. Water well pump installer. Requires two years experience. This classification covers Residential and Commercial water well pumps, 600 volts, or less, single or three phase. Install, maintain, repair or replace electrical equipment, wiring, and accessories used in connection with water well pump systems, including variable frequency drives. Also includes subpanels, luminaires, and receptacle outlets installed within the well pit or well enclosure; Branch circuit or feeder conductors from the service equipment or panelboard to the well pump location; Incidental excavation, trenching and solar photo-voltaic arrays 5 kW or less when dedicated to pumping equipment. This classification does not include systems over 600 volts, electrical services, building wiring or any other electrical wiring.

C. Journeyman classifications.

(1) EE-98J. Journeyman residential and commercial electrical. Requires four years experience.

(2) ER-1J. Journeyman residential wiring. Requires two years experience.

(3) EL-1J. Journeyman electrical distribution systems, including transmission lines. Requires four years experience.

(4) ES-1J. Journeyman electrical signs and outline lighting. Requires two years experience.

(5) ES-2J. Journeyman cathodic protection and lightening protection systems. Requires two years experience.

(6) ES-3J. Journeyman sound, intercommunication, electrical alarm systems, and systems 50 volts and under. Requires two years experience.

(7) ES-7J. Journeyman telephone communication systems and telephone interconnect systems. Requires two years experience.

(8) ES-10RJ. Journeyman residential water well pump installer. Requires two years experience.

(9) ES-10J. Journeyman water well pump installer. Requires two years experience.

[14.6.6.10 NMAC - Rp, 14.6.6.12 NMAC, 2-1-06; A, 05-01-10; A, 11-01-11]