

Section 16. Electrical Code. Definitions. (Corresponding with Section 8-46 of the Manhattan City Code) For the purposes of the Electrical Code, the following words and phrases shall have the meanings respectively ascribed to them:

Apprentice electrician shall mean any person who is employed by an electrical contractor, master electrician or journeyman electrician to assist a master electrician or journeyman electrician in the performing of electrical work. Provided, the term apprentice electrician shall not include master electricians or journeyman electricians.

Apprentice electrician I shall mean an apprentice electrician with less than one year of experience assisting a master electrician or journeyman electrician.

Apprentice electrician II shall mean an apprentice electrician with one or more years actual experience assisting a master electrician or journeyman electrician.

Assist a master electrician or journeyman electrician in the performing of electrical work shall mean performing those tasks for which specialized training, education, experience or certification is not necessary.

Electrical contractor shall mean any person engaged in the business of performing electrical work and is qualified or employs master electricians who are qualified to serve the public in performing electrical work.

Electrical work shall mean any work for which an electrical permit is required by the Uniform Administrative Code Provisions for the National Electric Code, as adopted in this Code.

Journeyman electrician shall mean any person who holds a journeyman electrician's certificate as issued under the provisions of this Resolution.

Master electrician shall mean any person who holds a master electrician's certificate as issued under the provisions of this Resolution.

Section 17. Electrical Code. Adoption of the National Electrical Code. (Corresponding with Section 8-47 of the Manhattan City Code). There is hereby incorporated by reference for the purpose of establishing standards for the protection of the public health, safety and welfare within that part of Pottawatomie County subject to these regulations, that certain electrical code known as the National Electrical Code (NFPA 70), 2017 Edition, including Annex A, B, C, D, E, F, G, H, I and J, a standard of the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts, 02169, save and except such articles, sections, parts or portions as may be hereinafter omitted, deleted, modified or changed. No fewer than one copy of such publication shall be marked or stamped "Official Copy as adopted by Resolution Number _____", and shall be attached to a copy of this Resolution and filed with the County Clerk and open for inspection and available to the public at all reasonable hours. All administrative departments of the County charged with enforcement of this code shall be supplied, at the cost of the County, such number of official copies, similarly marked, as may be deemed expedient.

Section 18. Electrical Code. Amendments. (Corresponding with Section 8-48 of the Manhattan City Code) The National Electrical Code, adopted by Section 15 above, is hereby changed, altered, modified and otherwise amended as follows:

(A) Article 210.12 of the National Electrical Code is hereby changed to read as follows: *Article 210.12 Arc Fault Circuit Interrupter Protection.*

- (1) *Definition.* An arc-fault circuit interrupter is a device intended to provide protection from the effects of arc faults by recognizing characteristics unique to arcing and by functioning to de-energize the circuit when an arc fault is detected.
- (2) *Dwelling Unit Bedrooms, Sleeping Rooms, Guest Rooms, and Dormitories.* All branch circuits that supply 125 volt, single phase, 15 and 20 ampere receptacle outlets installed in dwelling unit bedrooms, sleeping rooms, guest rooms and dormitories shall be protected by an arc-fault circuit interrupter(s) of the combination type.

(B) Article 300.5(C) of the National Electrical Code is hereby amended to read as follows: *Article 300.5(C) Underground Cables Under Buildings.* Underground cable installed under a building shall be in a raceway.

(C) Article 334.10 of the National Electrical Code is hereby amended to read as follows: *Article 334.10 Uses Permitted.* Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following:

- (1) One and two family dwellings
- (2) Multi-family dwellings permitted to be of Type III, IV and V construction
 - (a) Type NM. Type NM cable shall be permitted as follows:
 - (i) For both exposed and concealed work in normally dry locations except as prohibited in section 334.10(3).
 - (ii) To be installed or fished in air voids in masonry block or tile walls.
 - (b) Type NMC. Type NMC cable shall be permitted as follows:
 - (i) For both exposed or concealed work in dry, moist, damp or corrosive locations, except as prohibited by 334.10(3).
 - (ii) In outside and inside walls of masonry block or tile.
 - (iii) In a shallow chase in masonry, concrete or adobe protected against nails or screws by a steel plate at least 1/16 inch thick and covered with plaster, adobe or similar finish.
 - (c) Type NMS. Type NMS cable shall be permitted as follows:
 - (i) For both exposed and concealed work in normally dry locations except as prohibited by 334.10(3).
 - (ii) To be installed or fished in air voids in masonry block or tile walls.

(D) Article 334.12 of the National Electrical Code is hereby amended to read as follows: *Article 334.12 Uses Not Permitted.*

- (a) Types NM, NMC and NMS. Types NM, NMC and NMS cables shall not be permitted as follows:
 - (i) In any structure not specifically permitted in 334.10(1) and

- (ii) As service entrance cable.
- (iii) In hoistways or on elevators or escalators.
- (iv) Embedded in poured concrete or aggregate.
- (b) Types NM and NMS. Type NM and NMS cables shall not be used under the following conditions or in the following locations:
 - (i) Where exposed to corrosive fumes or vapors.
 - (ii) Where embedded in masonry, concrete, adobe, fill or plaster.
 - (iii) In a shallow chase in masonry, concrete, or adobe and covered with plaster, adobe or similar finish.
 - (iv) Where exposed or subject to excessive moisture or dampness.

(E) Articles 406.4(D)(4), 406.4(D)(5) and 406.4(D)(6) of the National Electrical Code are hereby deleted.

(F) Article 406.9(B)(1) of the National Electrical code is hereby amended to read as follows: *Article 406.9(B)(1) 15 and 20 Ampere Receptacles in a Wet Location.* 15 and 20 ampere, 125 and 250 volt receptacles installed in a wet location shall have an enclosure for the receptacle that is weatherproof when the receptacle is covered (attachment plug cap not inserted and receptacle covers closed). All 15 and 20 ampere 125 and 250 volt non-locking type receptacles shall be listed weather resistant type.

Section 19. Electrical Code. Additional rules for new electric wiring and connections.

(Corresponding with Section 8-49 of the Manhattan City Code) In addition to the minimum standards set forth in the National Electrical Code as adopted, new electric wiring and connections in that part of Pottawatomie County subject to these regulations shall be as follows:

- (A) All services to one-family and two-family dwellings shall be installed as per the National Electrical Code with three conductors, minimum capacity to be 100 amperes per unit.
- (B) All increases to present service conductors to one-family and two-family dwellings shall not be smaller than three 100-ampere conductors, per unit, to meter location.
- (C) All new meter installations to one-family and two-family dwellings shall be installed in a weatherproof type outdoor metal box or meter fittings approved by the utility company for such purposes, located on the outside of the building, location to be designated by the public utility furnishing the service.
- (D) For all new electric light and power services and all changes or relocation of electric light and power services, a sketch of proposed new work must be submitted to the building official and must have his approval before work is started.

Section 20. Electrical Code. Inspections and fees. (Corresponding with Section 8-64 of the Manhattan City Code)

A permit shall be issued as provided in this Code when the person applying has paid permit fees to the building official at the following rates:

- (A) Receptacle, switch, lighting outlet and lighting fixture, each \$0.25
- (B) Electric sign, each 10.00

- (C) Motor under one horsepower, each 3.00
- (D) Motor one horsepower to ten horsepower, each 7.50
- (E) Motor over ten horsepower, each 15.00
- (F) Service entrance, per ampere 0.10
- (G) Switchboard, per panel 3.00
- (H) Minimum fee, per permit 10.00

Section 21. Electrical Code. Examination and Certification. (Corresponding with Section 8-76 of the Manhattan City Code) The Public Works Director shall designate the type of examination of all applicants desiring to engage in or work at electrical wiring or electrical work within the area of Pottawatomie County set out in this Resolution.

Section 22. Electrical Code. Examination and Certification. Certificate required; exceptions. (Corresponding with Section 8-77 of the Manhattan City Code) In that part of Pottawatomie County subject to these regulations,

(A) It is unlawful for any person, except as otherwise provided in this section, to perform any electrical work, without possessing a valid, unrevoked master electrician's certificate or journeyman electrician's certificate. A journeyman electrician shall not perform any electrical work except under the employment of or direct supervision of a master electrician. It is not a violation of this section for an apprentice electrician to assist a master electrician or journeyman electrician in the performing of electrical work.

(B) It is unlawful for any person to work as an apprentice electrician without possessing a valid, unrevoked apprentice electrician's certificate. Every apprentice electrician shall carry an apprentice electrician certificate at all times while in the performance of their duties as an apprentice electrician.

(C) Any person may perform any electrical work in or upon their own home, shop, garage or other structure which they own and occupy; provided, however, any person performing such electrical work shall secure a permit for such work. The work shall be inspected and approved by the building official, and all applicable inspection fees shall be paid.

(D) It is unlawful for any person, including electrical contractors, master electricians or journeyman electricians, to permit or allow any number of apprentice electricians to assist a master electrician or journeyman electrician in performing electrical work in excess of the following ratios:

- (1) One apprentice electrician I for each master or journeyman electrician;
- (2) Two apprentice electricians II for each master or journeyman electrician.

Section 23. Electrical Code. Examination and Certification. Application; examination. (Corresponding with Section 8-78 of the Manhattan City Code)

(A) Any person desiring to engage in or work at the electrical business as a master or journeyman electrician shall make application to the Public Works Director of Pottawatomie County, or his designee, to be examined as to their qualifications and competency as electricians. A score of 75 percent or higher on the prescribed examination is necessary to qualify for certification. Two years of practical electrical experience is required to qualify for taking the journeyman examination and four years of practical experience is required to qualify

to take the master electrician examination. No person shall be eligible for certification as a master electrician until having met the requirements for and having been certified as a journeyman electrician. Applicants who qualify shall, upon payment of the certificate fee, receive a certificate authorizing them to work as a master electrician or journeyman electrician. Pursuant to the provisions of K.S.A. 12-1526 (b) and (c), the certificate of competency received by any person who passes an examination designated in K.S.A. 12-1525, shall be valid proof of competency for licensure, without additional examination, in any county or city of the state which requires licensure of such electricians practicing within such county or city. The Director of Public works shall issue the appropriate license to any applicant therefore who presents such a certificate of competency. The applicant shall pay the uniform fee to be charged all such applicants for licensure. Any person not entitled to a license pursuant to the reciprocity provisions of K.S.A. 12-1526 (b) and (c) shall be required to take and pass the examination described in K.S.A. 12-1525.

(B) Any person desiring to work as an apprentice electrician shall make application to the Public Works Director or his designee. Applicants, upon payment of the certificate fee, shall receive an apprentice electrician certificate authorizing them to work as an apprentice electrician. Those apprentice electricians who provide verification that they have been actively engaged as apprentice electricians for a period of one year or more, shall be designated an apprentice electrician II. All other persons making application for certification as apprentice electricians shall be designated apprentice electricians I. A copy of a certificate issued by a licensing authority of a City or County of this State shall be provided to the Public Works Director of Pottawatomie County, Kansas, or his designee, who shall issue a certificate to the holder with commencement dates and expiration dates identical to the commencement and expiration date on such certificate upon the payment of the uniform fee set out in this Resolution.

Section 24. Electrical Code. Examination and Certification. Renewal, registration of certificates. (Corresponding with Section 8-79 of the Manhattan City Code) All certificates for Electricians under this Code shall be in effect for two years until December 31 of odd-numbered years and may thereafter be renewed biennially by payment to the Public Works Director of a renewal fee and presentation of 12 clock hours of continuing education of a type acceptable to the Public Works Director or his designee. All certificates, which are nontransferable, must be registered with the Public Works Director or his designee not later than January 10 of the year following expiration, and it is hereby made the duty of each master electrician to see that each journeyman electrician and apprentice electrician working for him has been registered. A copy of a renewal of a certificate issued by a licensing authority a City or County of this State shall be provided to the Public Works Director of Pottawatomie County, Kansas, or his designee. The applicant shall pay the uniform fee to be charged all such applicants for licensure. The Director of Public Works shall issue a certificate to such holder with commencement dates and expiration dates identical to the commencement and expiration date on such certificate.

Section 25. Electrical Code. Examination and Certification. Fees.

- (A) The following fees for examination review, certificates and renewals of certificates under this division shall apply:
- (1) *Master electrician:*
 - (a) Certification or renewal, per year \$20.00
 - (b) Applicant investigation fee 5.00
 - (2) *Journeyman electrician:*
 - (a) Certification or renewal, per year 10.00
 - (b) Applicant investigation fee 5.00
 - (3) *Apprentice electrician:*
 - (a) Certification or renewal, per year 10.00
- (B) All such fees shall be paid to the Director of Public Works, where applicable.

Section 26. Electrical Code. Examination and Certification. License required for electrical contractors, term. (Corresponding with Section 8-80 of the Manhattan City Code) It shall be unlawful for any person to engage in the business in that part of Pottawatomie County subject to these regulations as an electrical contractor without a license to do so, issued by Public Works Director or his designee upon payment of a biennial license fee of \$200.00. All such licenses shall be valid for two years and expire on December 31st of odd-numbered years. Licenses shall be required of master electricians engaged in business as electrical contractors and shall likewise be required of all persons engaged in business as electrical contractors and having in their full time employ qualified master electricians; provided, that it is the intent and purpose of this section to require one license fee only for each person engaged in business as an electrical contractor as an individual unit; provided further, that licenses shall be issued only to qualified master electricians or to persons who have in their full time employ qualified master electricians. For the purpose of this section, full time is 40 hours or more per week. Pursuant to the provisions of K.S.A. 12-1526 (b) and (c), the certificate of competency received by any person who passes an examination designated in K.S.A. 12-1525, shall be valid proof of competency for licensure, without additional examination, in any county or city of the state which requires licensure of such electricians practicing within such county or city. The Director of Public works shall issue the appropriate license to any applicant therefore who presents such a certificate of competency. The applicant shall pay the uniform fee to be charged all such applicants for licensure. Any person not entitled to a license pursuant to the reciprocity provisions of K.S.A. 12-1526 (b) and (c) shall be required to take and pass the examination described in K.S.A. 12-1525.

Section 27. Electrical Code. Examination and Certification. Registration of certificates of nonresident electricians. (Corresponding with Section 8-82 of the Manhattan City Code) Any person who holds a current valid electrician's certificate issued by a board of examiners who has established license reciprocity with a City or County and who can give proof of passing a comparable examination as determined by the Director of Public Works shall be exempt for the requirements of this Code relating to electrical examinations, but such persons are hereby required to register the certificate with the Director of Public Works, before doing any electrical work in the area of Pottawatomie County subject to these regulations. Registration of nonresident certificates shall be effective until December 31 of odd-numbered years and may be renewed biennially thereafter upon payment of the required fee and submission of the required continuing education hours.

Section 28. Electrical Code. Examination and Certification. Supervision of electrical work; revocation of certificates. (Corresponding with Section 8-84 of the Manhattan City Code) The building official and the Public Works Director are hereby charged with the supervision of all electrical construction work, and all matters pertaining thereto in the area of Pottawatomie County subject to these regulations. The Public Works Director or his designee, shall have the power to suspend for a definite period or to revoke, after a hearing, the license of any electrical contractor or the certificate of any electrician, for violation of rules and regulations governing electrical wiring or for other violation of this article. Any appeal of an order of suspension or revocation shall be in writing and shall be heard by the Public Works Director or his designee(s). Any such appeal shall be filed within seven days after the date of any such Order. The determination of the Director of Public Works or his designee(s) shall be final.

Section 29. Plumbing Code. General. Adoption of the International Plumbing Code. (Corresponding with Section 8-92 of the Manhattan City Code) There is hereby incorporated by reference for the purpose of regulating all plumbing work done or performed within that part of Pottawatomie County subject to these regulations that certain standard plumbing code known as the International Plumbing Code, 2018 Edition including appendices B, C, D, and E as recommended by the International Code Council, 500 New Jersey Avenue, NW 6th Floor, Washington, DC, 20001, save and except such articles, sections, parts, or portions thereof as are hereinafter omitted, deleted, modified or changed. No fewer than one copy of such publication shall be marked or stamped "Official Copy as adopted by Resolution Number _____", and shall be attached to a copy of this Resolution and filed with the County Clerk and open for inspection and available to the public at all reasonable hours. All administrative departments of the County charged with enforcement of this code shall be supplied, at the cost of the County, such number of official copies, similarly marked, as may be deemed expedient.