

**ARTICLE 7
ELECTRICAL CODE**

SECTION 7.1

The following terms and words, as they are used in this Article are defined as follows:

(a) Electrical Equipment.

The term “electrical equipment” means conductors and equipment installed for the utilization of electricity, supplies for light, heat or power, but does not include radio apparatus or equipment for wireless reception of sounds or signals and does not include apparatus, conductors, and other equipment installed for or by public utilities, including common carriers, which are under the jurisdiction of the Illinois Commerce Commission, or other public utilities for use in their operation as public utilities.

(b) Electrical Contractor.

The term “electrical contractor” means any person, firm or corporation engaged in the business of installing or altering by contract, electrical equipment for the utilization' of electricity for light, heat or power, not including radio apparatus or equipment for wireless reception of sounds and not including apparatus, conductors and other equipment installed for or by public utilities, including common carriers, under the jurisdiction of the Illinois Commerce Commission or other public utilities for use in their operation as public utilities.

(c) Electrical Inspector.

The term “electrical inspector” means the Building Official of the City appointed and compensated under Article 5 of the Revised Code of Ordinances of the City of Mt. Vernon, or any of his duly authorized agents.

(d) Work, Wiring, Apparatus, Device.

The words, “work”, “wiring”, “apparatus”, “device”, and similar words and term mean and refer to and include all details in connection with any attachment or any part thereof of any and all similar things used in connection with electricity, either directly or indirectly.

SECTION 7.2

There is hereby adopted by the City of Mt. Vernon, Illinois that certain Electrical Code, NFPA 70: National Electric Code, 2008 Edition, issued by the National Fire Protection Association, at least one copy of which is on file with the City Clerk, and the same is hereby adopted and incorporated herein and so set out in full; and, from the date of which this Ordinance shall take effect, the provisions thereof shall be controlling in the installation, alteration, and use of electrical equipment within the City of Mt. Vernon and on any City property that may be located outside the corporate limits.

Any part of said Code which may be in conflict with this Ordinance is hereby superseded. It shall be unlawful for any person, firm or corporation to use any electrical device that does not comply with said Code.

The following Articles of the National Electrical Code are hereby amended or superseded as follows:

- a) Article 230.70: All commercial buildings shall have a separate outside main disconnect to the electrical system.
- b) Article 230.79 and Article 230.42: Other than one and two-circuit installations as stated in Code, all services shall have a minimum rating of 100 amps.
- c) Article 230.50: Only heavy wall rigid metallic conduit or schedule 80 rigid non-metallic conduit shall be used up to the service disconnect/over-current device.
- d) Article 250.50 and Article 250.52: Grounding electrodes for all services shall consist of a 5/8" x 8' (minimum) copperweld ground rod installed vertically (in ground with at least 12" of clearance from foundation wall and a minimum of 6" ground cover).
- e) Article 210.8: Ground-fault circuit-interrupter protection for personnel is required in all types of buildings as stated in Article 210.8 (1-8).
- f) Article 334.10: Type NM and NMC cables shall be permitted only in residential dwellings, except as prohibited in 334.12. Exception: garages and storage buildings incidental to residential use.
- g) Article 310.2 (b): Conductor Material - all conductors in this article shall be copper.
- h) Article 210.4: All branch circuits shall include an equipped grounding conductor identified as described in 210.5(b). The Electrical Inspector, upon inspection, may order the installation of such conductor in the event of its absence.
- i) Article 406.9: Where an equipment grounding conductor does not exist in the receptacle enclosure and it is impossible to install such conductor to meet Code, a ground fault circuit interrupter type of receptacle shall be used.
- j) Article 394: Concealed knob-and -tube wiring shall not be permitted for new or existing installations. Upon inspection, the Electrical Inspector may order the removal and/or replacement of such wiring with an approved method.
- k) Article 210.19.1: Branch-circuit conductors supplying loads other than cooking appliances as covered in Paragraph C above and as listed in 210.2 shall have any

ampacity sufficient for the loads served and shall not be smaller than #12.
Exception: Switch legs that serve single lighting fixtures of a current rating which would not exceed rating of conductor may be of #14 AWG.

- l) Article 230.90: Services - Screw shell fuse panels shall not be allowed for services or distribution panels.
- m) Article 230.50 (B): Service entrance cable shall be installed in heavy wall rigid metal conduit or schedule 80 non-metallic conduit up to service disconnect/over-current device.
- n) Article 230.28: The minimum size conduit extending vertically above the meter enclosure on overhead service drops shall be 1 1/4" trade size.

SECTION 7.3

The Electrical Inspector shall not engage in the occupation or business of electrical work or contracting, or be interested directly or indirectly in any firm or corporation engaged in such business, during his term of office.

SECTION 7.4

The Electrical Inspector shall enforce all laws relating to the installation, alteration, and use of electrical equipment. He shall be subordinate to the City Manager, who shall have the administrative authority under this Ordinance.

The Electrical Inspector, in the discharge of his official duties, shall have authority to enter any building, structure or premises at any reasonable hour. If the Electrical Inspector shall inspect and examine any building, structure or premises and shall determine that such building, structure or premises is unsafe or dangerous by reason of faulty, defective or deteriorated electrical usages, or wiring or by reason of improper and unsafe electrical usages, the Electrical Inspector shall have full power and authority to order the public utility supplying electrical energy or service to said property to disconnect such electrical service until the dangerous or unsafe conditions found in such building, structure or premises are corrected.

The City Clerk shall sign and issue all permits and certificates required by this Ordinance and keep a record of such permits and certificates, but the City Clerk shall not issue any permit or certificate until same has been approved by the Electrical Inspector.

The Electrical Inspector shall sign and issue all notices required by this Ordinance and cause a record of the performance of his office to be kept by the City Clerk. The City Clerk shall collect all fees required by this Ordinance. In the absence of the Electrical Inspector the Fire Chief may issue temporary permits and otherwise act for the Electrical Inspector.

SECTION 7.5

All registration fees, including the registration fees of the Electrical Contractor and also of the inspection fees, shall be retained by the City as General Corporate Funds.

SECTION 7.6

No electrical equipment shall be installed or altered in the City of Mt. Vernon except upon a permit first issued by the Electrical Inspector. However, the provisions of this section shall not apply to repairs and maintenance, public service agencies, power companies, temporary testing systems, railway utilities and transmitting equipment. That each permit fee provided for in this Ordinance will include an inspection fee as hereinafter set forth and a registration fee of fifty cents (50¢).

No real estate shall be annexed to the City of Mt. Vernon upon which there has been constructed or erected any building or improvement within 12 months prior to the date of annexation, where the construction or erection thereof would have required an electrical permit if same had been located within the City of Mt. Vernon on the date of such construction or erection, unless and until the owner thereof shall have obtained an inspection of such electrical installation in the manner provided by the within Electrical Code and shall have paid the inspection fee provided herein for such inspection; and shall have obtained a certificate that such electrical work complies with the provisions of the within Electrical Code.

SECTION 7.7

In accordance with the provisions of 65 ILCS 5/11-37 et seq, there is hereby established an Electrical Commission for the City of Mt. Vernon, Illinois.

The Electrical Commission shall be composed of six members, as follows: The Electrical Inspector, who shall be ex-officio Chairman; and of the other five members who shall be appointed by the Mayor, with the advice and consent of the City Council, one shall be an electrical contractor, one a journeyman electrician, one the Chief of the Fire Department and one a representative of an electricity supply company; and one a registered professional engineer.

The Electrical Commission shall have such powers as are fixed by statute and by ordinance, including this Article; it shall interpret this Article, where necessary, hear appeals from the orders of the Electrical Inspector and make recommendations to the Electrical Inspector and City Council.

The members of the Electrical Commission shall serve without pay, including the Electrical Inspector, for his services in this behalf.

Each member of the Electrical Commission shall serve for a period of three years from the date of his appointment or until his successor shall be appointed.

SECTION 7.8

Any person, firm or corporation desiring to engage in the business of installing or altering electrical equipment in the City shall apply for registration to the City Clerk. Upon the filing of an application in the form prescribed by the Electrical Commission and payment of the registration fee and inspection deposit fixed herein, and upon approval by the Electrical Commission, the Electrical Inspector shall register the applicant as an Electrical Contractor, and shall cause to be issued to the applicant a certificate of registration which will authorize the applicant to engage in such business for the fiscal year in which it is issued.

If, in the opinion of the Electrical Inspector, any registered Electrical Contractor shall have willfully or repeatedly violated any of the provisions of this ordinance, the Electrical Inspector shall prefer charges against such offending registered Electrical Contractor to the Electrical Commission. The Electrical Commission shall immediately conduct a hearing, after which, by a majority vote, if found guilty, such registration of said Electrical Contractor shall be revoked, and any unexpired registration fee shall be returned by the City as liquidated damages. The City Clerk shall keep a suitable record of all registrations.

The fee for registration as an Electrical Contractor shall be Forty dollars (\$ 40.00) payable on or before April 30 of each year hereafter, which sum shall be paid by the applicant to the City Clerk. The certificate of registration issued by the City Clerk shall expire on the first day of May following its issuance. Neither the City Electrical Inspector nor the Electrical Commission shall cause to be issued any such certificate of registration until the payment of such fee shall be made.

The license holder shall maintain on deposit with the City Clerk, the sum of Fifty Dollars (\$50.00) to cover the cost of inspection fees. This deposit will be drawn upon monthly to cover the fees charged for the previous month. Failure to maintain this deposit in its full amount for a period of more than thirty (30) days will be reason for revocations of license by the Electrical Commission.

Before any permit to install or alter electrical work shall be issued to any person, firm or corporation entitled to secure permits under this ordinance, he shall designate himself or some other person who shall be known as "Supervising Electrician", who shall be responsible for electrical work.

The Supervising Electrician shall be not less than twenty-one (21) years of age, and shall have had at least four (4) years experience in the installation, alteration, repair and maintenance of electrical wires, equipment, and apparatus, or an experienced equivalent thereto. Applicant shall furnish the names and addresses of former employers, the period of time employed, and in what capacity, proof of which service shall be furnished in a manner satisfactory to the Electrical Inspector; or, every applicant provided for in the preceding article shall be required to answer a reasonable number of questions in writing, to show that he has sufficient Electrical Code knowledge and technical training to supervise the installation, alteration, repair and maintenance of electrical wires and apparatus authorized by permits issued by the Electrical Inspector. Applicants shall be required to answer to the satisfaction of the Electrical Inspector at least seventy percent (70%) of the questions prepared by him.

SECTION 7.9

1. Receptacles installed on 15 to 20 ampere branch circuits must be of the grounding type in kitchen, basement, laundry, garage, and all damp locations.

2. It shall be unlawful for any person to exchange or sell installation within the corporate limits of the City, any electrical equipment that requires additional wiring, such as stokers, blowers, air conditioning units, ranges, built-in cooking units, signs, coin operated devices, etc., without listing such apparatus, describing such equipment, complete with the name and address of the purchaser, and the location where the equipment is to be installed.

This list to be made available to the Electrical Inspector upon request.

3. Illuminated signs of all types shall have a minimum clearance from the ground or walkway of ten (10) feet and shall not extend more than ten (10) feet out from the property line, nor closer than two (2) feet to the curb line of the street. All signs in alleys and over driveways shall have a minimum clearance of fifteen (15) feet. The sign support shall be of steel sufficient strength to adequately support it under all wind and weather conditions. Guys shall be of chain or galvanized steel cable.

SECTION 7.10

In addition to a permit fee of fifty cents (50¢) as heretofore provided herein, the following inspection fees shall be paid to and collected by the City Clerk for various classes of work, as follows:

Minimum charge, \$3.00.

Reinspection Charge, \$6.00 per hour.

All residential buildings remaining unoccupied for a period of six months, or residential buildings in which meters have been removed, shall be reinspected before the electrical use is permitted.

All other buildings shall be reinspected upon change of occupancy. Hourly rates for unclassified work, \$5.00.

Inspection for permission to cover electric work, \$2.00 each.

Service entrance charges:

100 ampere or less \$3.00; \$2.00 per each additional
100 ampere capacity beyond 100 ampere capacity. (this charge applies to each individual feeder).

Branch circuit charges, fifty cents (50¢) per each installed branch circuit.

Motor and/or generator: \$2.00 up to and including 5 h.p. 10¢, less than 5 h.p. for the purpose of arriving at charges. Entire motor load may be totalized in arriving at charges.

Transformers

No charge up to and including 3 KVA or KW.

\$1.00 each transformer over 3 KVA up to and including 10 KVA.

\$2.00 for each transformer over 10 KVA up to and including 25 KVA.

Transformers over 25 KVA shall be charged at a rate of 10c per KVA or MN.

Fixture schedule \$2.00 for first ten lamps. Ten cents (10¢) for each lamp over ten.

Convenience outlets. Two dollars (\$2.00) for first ten and 10c for each convenience outlet over ten.

Welders:

\$2.00 for each welder up to and including 15 KVA or KW.

10¢ for each KVA or KW over 15 KVA or KW.

Appliances rated in KW or KVA will be the same as welders.

Appliances by h.p. - 1/3 h.p. or less will be figured as convenience outlets. See motor charge for appliance in excess of 1/3 h.p.

Switchgear: \$3.00 for the first operating unit.
\$1.00 for each additional operating unit.

Motor Control Center: \$2.00 per section.

(a) Illuminated Signs:

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|----|--|--------|
| 1. | Signs mounted inside buildings and in windows. | \$3.00 |
| 2. | Signs mounted outside - | |
| | First fifty (50) sq. ft. of area or less | 5.00 |
| | Each sq. ft. of area over fifty (50) sq. ft. | .10 |
| | Maximum for any one sign | 30.00 |

(b) Outline Lighting:

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|----|--|------|
| 1. | First fifty (50) linear feet or less of tubing | 5.00 |
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2.	Each 1 foot over 50 feet	.05
3.	First 50 sockets or less	5.00
4.	Each socket over 50	.02
5.	Maximum for any one installation	30.00

Isolated control system for furnaces, 150 watt or less \$2.00
(In excess of 150 watt, see Motors.)

Called Inspections:

Called inspections shall be those field trips required by the licensed holder for the convenience and information of the license holder per hour \$5.00

X-Ray Equipment. (Transformers) 50¢ per KVA or KW capacity.

Motion Picture Projector (professional) 50¢ per KVA or KW capacity.

Panelboard (each panelboard):

100 ampere main and less \$2.00 - \$1.00 each additional 100 ampere capacity.

Charges made for the inspection of items which are charged by watts or horsepower shall not receive additional charges for the branch circuit in connection with the same item.

Flat fee (total charge for one family new residence provided with):

- (a) Total amperage of less than 100 amps and not less than 200 amps\$ 18.50
- (b) A service of 200 amps.....24.50
- (c) Excess of 200 amps..... 10.00 per 100 amps or parts thereof
- (d) For all other electrical permits, services, updating and other electrical work, a minimum fee of \$7.50 for all services up to 200 amps and \$10.00 for 200 amps and above.

Flat Fee (total charge, except for illuminated signs and outline lighting), for new structure provided with 400 ampere service or greater, .08 times total service of 400 ampere or above.

The fees for the permit above described shall not be charged to or collected from an

applicant under the following circumstances:

1. The work is being done for the use of a governmental entity or for a not-for-profit organization whose purposes are religious, educational, or charitable.
2. The applicant shall file a written declaration with the City that said fees have not been and will not be included in any payment to any contractor or other person.
3. Such organization shall apply for and obtain all necessary permits and otherwise fully comply with the ordinances of the City, unless exempted therefrom by any law of the State of Illinois or of the United States.

SECTION 7.11

There shall be an annual inspection of all business buildings, factories, schools, churches and other buildings where large group of persons congregate, by the Electrical Inspector and the Fire Department.

SECTION 7.12

The Electrical Inspector may revoke permits or registrations for cause, subject to appeal for hearing before the Electrical Commission. Appeals of the orders of the Electrical Inspector shall be informal and as may be prescribed by rules of said Commission.

SECTION 7.13

This Article shall not be construed to affect the responsibility or liability of any party owning, operating, controlling, or installing any electrical equipment for damages to persons or property caused by any defect therein, nor shall the City be held as assuming any such liability by reason of the inspection or reinspection authorized herein or by the enactment and administration of this Article.