

CHAPTER 16
ELECTRICAL CODE

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16.01 STATE CODE ADOPTED. The provisions and regulations contained in the State Electrical Code, as amended from time to time, and such additional rules and regulations as may be adopted by the Town shall govern electrical work in the Town.

16.02 DEFINITIONS. For the purposes of this chapter, the following terms shall have the meanings indicated:

1. **ELECTRICAL SYSTEM.** All materials, devices, or appliances installed or used for the purpose of conducting or safeguarding electrical current.
2. **ELECTRIC WIRING.** Includes material, construction, devices, and equipment.
3. **ELECTRICAL WORK.** Any act in connection with the installing, altering or maintaining of an electrical system designed or capable of carrying an electromotive force of 25 volts or over.
4. **INSPECTOR.** Any person qualified and appointed for the purposes of enforcing the provisions of this chapter.

16.03 SUPERVISION. Electrical inspections shall be performed under the supervision of the Electrical Inspector.

16.04 ELECTRICAL INSPECTOR.

- (1) The Town Board shall appoint the Electrical Inspector in April of every year, to serve for a term of one year.
- (2) The Electrical Inspector shall be certified by the State of Wisconsin as a Commercial electrical Inspector and as a UDC Electrical Inspector. The Inspector shall faithfully enforce all the ordinances, regulations, and statutes relating to electrical installations. He shall maintain a daily record of all transactions relating to his office.

(3) If the Electrical Inspector determines that any electrical work done does not meet the requirements of this chapter, notice thereof shall be given to the contractor or owner of the premises specifying the defects in such work and directing that such defects be corrected within 15 days from the date of such notice. If the defects are not corrected within the time provided by such notice and the provisions of this chapter, the contractor or owner shall be liable to a penalty as provided in this chapter.

(4) If the Electrical Inspector finds that any electrical work done on any premises is dangerous to life or property, he may direct the repair thereof within 5 days and failure on the part of the contractor or owner to make such repairs within the time specified shall subject the contractor or owner to the penalty provided in this chapter.

(5) Effective January 1, 1987, the Electrical Inspector shall deposit the total amount of all electrical inspection fees collected by him with the Town Clerk, which Clerk will turn over to the Town Treasurer for retention in an escrow account for the benefit of the Electrical Inspector to be paid to the Electrical Inspector for his services and expenses as Electrical Inspector. The Electrical Inspector shall furnish all supplies necessary for the office of Electrical Inspector. The Electrical Inspector shall furnish to the Town Clerk at the end of each month an itemized statement showing all fees collected and paid to the Town Treasurer and such statement shall include an itemized statement of all expenses incurred by the Electrical Inspector. The Town Clerk shall submit such report to the Town Board at the next meeting following the filing of such report and the Town Board shall consider such report and in the event of approval thereof by the Town Board, authorize payment of the amount thereof, including expenses and fees, to the Electrical Inspector by the Town Treasurer. The electrical Inspector shall provide and pay for all necessary equipment and supplies for his office and shall furnish telephone and office space necessary for the conduct of his office as Electrical Inspector, all at his expense. No compensation shall be paid to the Electrical Inspector by the Town for the performance of his/her duties and the Town shall furnish no equipment or supplies to the Electrical Inspector. All costs, expenses, and fees shall be limited to the amount of money collected by the Electrical Inspector for electrical inspection fees as herein provided. The Electrical Inspector shall be covered by the public liability insurance of the Town.

16.05 AUTHORITY TO ENTER PREMISES. The Electrical Inspector shall have the right during reasonable hours to enter any public or private building or premises in the discharge of his official duties or for making any inspection or test of the electrical wires, fixtures or

appliances located therein. He shall be given prompt access to any premises upon notification to the owner or person in charge. No person shall interfere with the Electrical Inspector in the performance of his duties.

16.06 AUTHORITY TO DISCONNECT. The Electrical Inspector may turn off and disconnect all electrical currents to any system which is found to be in unsafe condition, and in cases of emergency where electrical currents are dangerous to life or property or to the work of the Fire Department, cut or disconnect the electric current. No system or current thus disconnected shall be reconnected without a permit issued by the Electrical Inspector.

16.07 PERIODIC INSPECTION; NOTICES; PENALTIES. The Electrical Inspector shall periodically inspect public buildings and premises, including theaters, places of amusement and places of assemblage. He shall make a thorough examination of the electrical wires and appliances installed therein and shall order the owner or person in charge of such places to make safe any unsafe or dangerous conditions. Anyone failing to obey such order within 15 days from receipt thereof shall be subject to the penalties provided in this chapter.

16.08 ELECTRICAL LICENSES.

(1) **ELECTRICAL LICENSE REQUIRED.** No person, either individually, as a member of a firm, or as an officer or employee of a corporation, shall conduct the business of electrical wiring unless such person shall have a valid license as required by this Chapter, and no electrical work except minor repair work shall be done by a person not having such license. The Electrical Inspector may, however, issue a permit to the owner of a single family residence only, which he or she occupies as a primary residence, if the person desiring such a permit can prove that he or she is competent to do such work in conformity with all rules and regulations governing installation of electrical wiring in residences, and such person shall pay the same fee as required of electrical contractors under § 16.13 of this Chapter. Nothing herein provided shall apply to servicing of electrical appliances by the manufacturer.

(2) Fees for all licenses shall be paid to the Town Treasurer and no license shall be issued or validated unless signed by the Electrical Inspector and stamped by the Town Treasurer or Town Clerk to show the fee has been paid.

16.09 ELECTRICAL LICENSE APPLICATIONS AND FEES.

(1) **QUALIFICATIONS.** Any person making an application for a license must show proof of State Masters Electrical Certification.

(2) **LICENSE FEES.** The initial annual fee for an electrical license shall be \$100. The renewal fee thereafter shall be \$50. The license year shall commence May 1, and expire on the succeeding April 30. There shall be no obligation on the Electrical Inspector or Town Clerk to notify the licensee concerning the expiration of a license.

16.09 ELECTRICAL PERMITS REQUIRED.

(1) It shall be unlawful for a person to enter upon the erection, construction, alteration, or change of any electrical installation, work, or wiring, except minor repair work as defined in paragraph (2) of this section, until a permit has been obtained from the Town of Brookfield. The application for permit shall describe the proposed installation or work and give the location of the premises where the same is to be placed. No permit shall be issued unless satisfactory proof is furnished to the Town of Brookfield that the applicant is licensed. The fees for such permits shall be paid in full before commencement of work. Any excess fees will be refunded following final inspection. The license holder shall sign all applications for permits. No electrical equipment or installations shall be installed, altered, renewed, replaced, or connected without first obtaining an electrical permit.

(2) Minor repair work shall be construed to mean the replacement of broken or defective sockets, snap, push or toggle switches, convenience outlets or lighting fixtures.

(3) Any public or private institution employing a person carrying a license may elect to take out an annual permit in lieu of regular permits required by the Code for the purpose of repair or alteration of equipment in or on building structures or premises owned or occupied by said institution or plant. Said annual permit shall be issued upon payment of an annual fee on the sum of \$100. Increases in electrical load shall be considered as new installations, separate additional permits shall be obtained for such alteration, addition, or new installation that would increase the electrical load, and the permit fee for the work shall be paid as set for in § 16.14 of this Chapter.

(4) A permit shall be required for overhauling existing installations or replacing work condemned by the Electrical Inspector.

(5) Any public or private institution or industrial plant electing to employ an electrical contractor in lieu of full-time maintenance personnel to perform repairs and maintenance of electrical equipment in or about buildings or structures owned or occupied by said institution or plant shall be allowed the same election for annual permits as provided above, provided that the name of the electrical contractor providing such service is on file with

the Building Inspection Department. In the event of the termination of the employment of said contractor, the Inspection Department shall be notified of the name of the new contractor or properly licensed employee before any additional work being performed under the annual permit.

(6) Work performed under annual permits shall be inspected at regular intervals. It shall be the responsibility of the person, firm, or corporation to provide the inspector with a list of all new installations, alterations or repairs that may have affected the electrical system.

(7) **EXCEPTIONS.** In the event of an emergency when the immediate initiation of work is necessary for the protection of life, health, or property, such necessary work may be done without previously obtaining a permit. Said work shall be done in a safe manner. The Electrical Inspector shall be notified as soon as is practicable, with the proper permit obtained and subsequent inspection by the inspector.

(8) **SPECIAL PERMITS.** Special permits may be issued by the Electrical Inspector, for a period not to exceed 6 months, for the installation and use of temporary electric wiring and equipment, which does not conform to the regulations of this chapter. Such permits may be authorized for buildings where conduit wiring is required for open work and exposed wiring, lights, power for building operations, display and decorative lighting, carnivals, circuses, theatrical acts, exhibitions and all places of temporary outdoor assembly. The person installing such wiring or equipment shall be directly responsible and accountable for the safe condition of the installation at all times, and its complete removal at the end of the temporary period as fixed by the Electrical Inspector, or at any time sooner when ordered by the Electrical Inspector.

(a) Such temporary work shall be installed, maintained, and operated in a safe and workmanlike manner. All such electric wiring and equipment shall be isolated from the public by proper elevation and guarding and all electric fuses and switches shall be installed in approved enclosures. Cable laid on the ground in areas traversed by the public shall be buried in trenches or protected by approved covers.

(9) All material and appliances used or designed to be used in connection with the utilization of electricity for light, heat, or power shall be of standard design.

16.11 PERMIT FEES. Double fee shall be charged for any work started before filing an application for a permit.

PERMIT FEES	
Light, Switch, Receptacle Outlet (All terminations)	\$ 0.40 each
Incandescent Lighting Fixtures	\$ 0.40 each

Fluorescent Lamps	\$ 0.40 each
Ranges or 50 Amp Receptacle	\$ 5.00 each
Dryers or 30 Amp Receptacle	\$ 5.00 each
Garbage Disposal/Dishwasher	\$ 5.00 each
Electric Water Heater	\$ 5.00 each
Electric Space Heating (\$5.00 Min.)	\$ 5.00 each
Water Heater Electric	\$ 5.00 each
Heat Pump Per Unit	\$ 10.00 each
Gas, Oil or Electric Furnace Per Unit	\$ 10.00 each
Central Air Conditioning (\$10.00 Min.)	\$10.00/ Unit
Generators, Transformers	\$10.00 each
Motors/ H.P. or Fraction/; (\$5.00 Minimum)	\$ 5.00/H.P. or Fraction
Electrically Lighted Signs (per sign)	\$ 25.00 each
Service Per 100 Amp Capacity	\$ 10.00 each
Swimming Pools (Above/In Ground)/ Hot Tub	\$ 40.00 each
Temporary Lighting & Carnivals	\$ 25.00 each
Arc, Mercury Vapor Lighting Fixture	\$ 3.00 each
Well Water Pumps	\$ 4.00 each
Arc, Mercury Vapor Lighting Fixture	\$ 0.50 each
Feeders – 10’ or more #6 AWGL or Larger	\$ 10.00 each
Track Lighting per Fixture	\$ 0.40 each
Flood Lighting Poles and Bases	\$ 5.00 each
Trenching for Conduit & Cables	\$ 0.05 per ft
Temporary Service Permit	\$ 15.00 Each
Wireways, Bus Duct, Under Floor Duct	\$ 0.30 per ft.
Fuel Dispensing Pumps per Nozzle	\$ 10.00 each
Special Purpose Outlets/All Voltage Dedicated Circuits.	\$ 5.00 each
X-ray/Motion Picture Machines	\$ 30.00
Reinspection/Failure To Arrange Insp.	\$ 35.00
Hydro-Massage Whirlpool	\$ 30.00
Door Bell System	\$ 1.00 each
Intercom System	\$ 2.00 each
Temporary Service Permit	\$ 15.00 Each
Wireways, Bus Duct, Under Floor Duct	\$ 0.30 per ft.
Fuel Dispensing Pumps per Nozzle	\$ 10.00 each
Trenching for conduit and Cables (Per ft.)	\$ 0.05 each
Special Purpose Outlets/All Voltage Dedicated Circuits.	\$ 5.00 each
X-ray/Motion Picture Machines	\$ 30.00
Reinspection/Failure To Arrange Insp.	\$ 35.00
Minimum Charge (Per Permit)	\$ 30.00

16.12 CERTIFICATE OF INSPECTION.

(1) Current shall not be turned off on any electrical wiring until the Electrical Inspector has issued a certificate of inspection. However, in occupied buildings where a permit for lighting fixtures has been issued, the

Inspector may authorize the installation of meters for electric service after the wiring has been inspected and approved.

(2) Wiring for which a permit has been issued shall not be concealed until accepted by the Electrical Inspector.

(3) All notifications for inspections must be made to the Electrical Inspector. Failure to make notification of a required inspection may result in an assessment not to exceed \$40.00.

(4) No certificate of inspection shall be issued unless the electrical wiring and equipment for light, power, heat, or other similar purposes is safe both with respect to life and fire hazard, and is in strict conformity with the ordinances of the Town the statues of the State of Wisconsin and general or special orders of the Department of Commerce of the State of Wisconsin.

(5) A copy of the final certificate of inspection shall be kept on file by the electrical inspector.

16.13 INSTALLATION STANDARDS. All installation standards shall meet the minimum requirement of the State Electrical Code and the National Electric Code. Wisconsin Administrative Code COMM 17.13(2) and COMM 16 volume 2, including amendments, revisions and modifications thereto, are adopted by reference and made a part of this chapter and shall apply to all buildings, except as follows:

(1) **INDUSTRIAL AND COMMERCIAL BUILDING, HOTELS, MOTELS, OFFICES, APARTMENTS, TOWNHOUSES AND STORES.** All wiring shall be rigid metal conduit, rigid nonmetallic conduit, electrical metallic tubing, auxiliary gutters, busways, surface metal raceways, and nonmetallic surface raceways.

(2) **NURSING HOMES, HOSPITALS, AND INSTITUTIONS.** All wiring shall be rigid metal conduit, intermediate metal conduit, electrical metallic tubing, electrical metallic tubing, auxiliary gutters, busways, and surface metal raceways. Flexible metal conduit may be used in concealed areas only, except where connected to machinery that is moveable.

(3) **NONCONFORMING BUILDINGS.** In the event is a change in occupancy, use, or zoning, existing buildings that are nonconforming shall be made to conform to the provisions of this section.

(4) **USE OF FLEXIBLE CORD.** Extension cords shall not be use for permanent wiring of machinery, appliances or as a substitute for fixed wiring, except that multi-outlet assembly with switch, circuit breaker, and cord not exceeding six feet in length is permitted.

(5) **OVER-CURRENT PROTECTION.** All commercial and industrial properties shall have a master service switch up to two thousand (2,000) amps over-current protection for

each type of service, except with the permission of the electrical inspector.

(6) **POWER REQUIREMENTS.** All multifamily dwellings shall have no less than one hundred- (100) amp master service switch ahead of any branch circuit fuse or breaker. For each dwelling, the minimum service entrance conductors shall be on hundred fifty- (150) amps for three-family structures. The minimum for four-family structures shall have two hundred (200) amp service entrance conductors.

(7) **HEATING PLANT REQUIREMENTS.** All heating plants shall have an indicating disconnect at the controls. All pumps shall have an indicating disconnect at the pump; in the case of submersibles, it shall have said disconnect at the controls.

(8) **RENOVATION AND REMODELING.** Renovation of existing structures, buildings, or portions thereof shall comply with this section throughout the affected area, as determined by the electrical inspector.

16.14 NONCONFORMING INSTALLATIONS.

(1) Existing electrical equipment which does not conform to the regulations of this chapter, but which was lawfully installed before the passage of this chapter, may be continued in use if maintained in safe condition.

(2) Where any additions, alterations or renewals of existing electrical equipment lawfully installed before the adoption of this chapter are made, such portion of the installation which is added, altered or renewed shall conform to the regulations of this chapter.

(3) Any change in the occupancy or use of an existing building, structure or premises, shall not require a change in the existing electric equipment providing such change does not create an electrical hazard.

16.15 SALE OF ILLEGAL OR UNSAFE EQUIPMENT PROHIBITED. No person shall keep or offer for sale or sell for use within the Town any apparatus, equipment or fixtures designed or intended to be used for the production, transmission or utilization of electrical current or power if such apparatus, equipment or fixtures, when installed for use, would be in violation of any of the provisions of this chapter or would be unsafe or dangerous.

16.20 PENALTY. Except as otherwise provided any person who shall violate any of the provisions of this chapter, upon conviction thereof, shall be subject to a penalty as provided in § 25.04 of this General Code. (Recreated: 03/03/1998)