

Chapter 17

ELECTRICAL CODE

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Article I. In General

Sec. 17-01. Purpose.

The purpose of the electrical code in this chapter is to safeguard life and property and to give assurance of all manner of electrical work being done in a workmanlike manner, by regulating and providing for the inspection of the installation and maintenance of electrical wiring, equipment and devices, and providing for the examination and licensing of persons undertaking electrical work, and fixing a penalty for the violation thereof.

(Code 1982, § 16.01)

Sec. 17-02. State electrical code adopted.

(1) *State code adopted by reference.* The provisions and regulations of the electrical code adopted by the Wisconsin Department of Commerce as set forth in the Wisconsin Administrative Code are hereby made a part of this chapter in their entirety by reference; provided, that where the provisions of this chapter are more restrictive or require higher standards than the state code, not in conflict with the minimum requirements thereof, the provisions of this chapter shall apply. Failure to comply with any of the provisions of such regulations shall constitute a violation of this chapter, subject to the penalties provided in this chapter.

(2) *Utility.* Rules and regulations of the public service commission, the city electric utility and any additional requirements of the city and the state pertaining to electrical work shall be adhered to and shall be subject to inspection and enforcement by the city electrical inspector as part of this chapter.

(Code 1982, § 16.18(1))

Sec. 17-03. Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Beginning electrician trainee or helper means a person defined and certified by the State of Wisconsin.

Electrical contractor means a person defined and certified by the State of Wisconsin.

Electrical work means the installation of all equipment, wiring, materials, fittings, devices, appliances, fixtures and apparatus used for the production, modification, regulations, control, distribution, utilization or safeguarding of electrical energy for mechanical, chemical, cosmetic, heating, lighting or similar purposes as covered by the scope of the Wisconsin Administrative Code.

Industrial/commercial/institutional employer means those firms that employ a minimum of 50 employees, except by special permission of the electrical board. These firms may choose to have employees who perform electrical work in the course of their employment. These firms shall apply to the electrical board for status as one of these employers and shall include a list of all such designated employees. An update of this list shall be sent yearly to the electrical inspector. All electrical work performed by such persons shall be subject to permits and inspections as outlined elsewhere in this chapter.

Industrial/commercial/institutional maintenance electrician may be a journeyman electrician as defined by this chapter or shall be a person who is identified as such by an industrial/commercial/institutional employer. This person shall be deemed qualified by the employer and shall perform electrical work as necessary for the employer. This person shall be regularly employed, be under the direct supervision of, and perform work only for the employer of record at the place of business. The electrical board does not assume any responsibility for the qualifications of these persons, but for just cause may deny this status for a particular individual.

Journeyman electrician means a person who is defined and certified by the State of Wisconsin.

Master electrician means a person defined and certified by the State of Wisconsin.

Municipal granted electrical license means a license qualified by and granted by the City of Marshfield before the State of Wisconsin's certification program. These licenses retain their classifications as long as the holder maintains and renews these licenses as outlined in this chapter.

Plant electrician means a journeyman electrician as defined in this chapter, regularly employed and whose electrical work for such employer is limited exclusively to the plant or shop of the employer.

(Code 1982, § 16.05; Ord. No. 947, § 1(16.05), 11-12-2001)

Sec. 17-04. Emergency electrical work.

When doing emergency electrical work, the person doing or causing work to be done shall report the action to the electrical inspector, on forms furnished by the city, the next business day after commencing such work. Such work shall be done in accordance with the provisions of this chapter.

(Code 1982, § 16.12)

Sec. 17-05. Approved appliances.

No person shall keep, offer for sale or sell within the city, any electrical appliance, equipment or fixtures designed for or intended to be used for the production, transmission or utilization of electrical current or power, unless such appliance, equipment or fixtures have been approved by a nationally recognized testing agency, the department of commerce, or the electrical inspector. The electrical inspector may make periodic inspections to ensure compliance with this section.

(Code 1982, § 16.16)

Sec. 17-06. Appeal

Any person may appeal to the board of electrical examiners for a review of any decision of the electrical inspector or the deputy electrical inspector. Such appeal must be made in writing within five days after such person has been notified of such decision by the electrical inspector or the deputy electrical inspector. Upon receipt of such appeal, the board of electrical examiners shall determine whether the action of the electrical inspector or the deputy electrical inspector complies with this chapter, and shall make a decision in accordance with its findings within five days after such appeal is made. On an appeal, five members of the board of electrical examiners shall constitute a quorum, but a decision shall require the affirmative vote of at least four members. The chairman of the board shall have a vote in such matter.

(Code 1982, § 16.19)

Sec. 17-07. Penalty.

Any person found to be in violation of any provision of this chapter shall be subject to a penalty as provided at section 1-05 of this Code.

(Code 1982, § 16.25)

Secs. 17-8—17-35. Reserved.

Article II. Administration

Sec. 17-36. Board of electrical examiners.

(1) *Composition.* The board of electrical examiners shall consist of seven members as follows:

- (a) One electrical contractor or master electrician.
- (b) Three electricians.
- (c) One alderperson.
- (d) One citizen member.
- (e) One employee from the electric department of the Marshfield Electric and Water Department.

(2) *Appointment.* The electrical inspector shall act as secretary for the electrical board without any vote. All members of the board shall be appointed by the mayor, subject to the confirmation of the council, at the organizational meeting of the council in each year, and shall hold office for three years, commencing May 1. The electrical contractor/master electrician member and the electrician members shall, if possible, be rotated each year from those electrical contracting firms or businesses that perform electrical work within the city.

(3) *Qualifications.* All members of the board of electrical examiners excepting the citizen member and the alderperson shall be qualified in accordance with the requirements governing their classification before their appointment and confirmation by the council.

(4) *Vacancy.* Vacancies on the board of electrical examiners shall be filled by appointment by the mayor and shall be confirmed by the council.

(5) *Quorum.* Four members of the board shall constitute a quorum for the transaction of business, but no recommendations for the issuance, suspension or revocation of a license shall be adopted except by a vote of four members of the board of electrical examiners. The electrical inspector shall properly investigate and report to the board of electrical examiners the qualifications and competency of the applicants in the field of electrical work.

(6) *Meetings.* The board of electrical examiners shall meet at least once each month on a regular day for the consideration of applications and any other business coming before the board.

(7) *Role.* The role of the board of electrical examiners shall be to review, issue and revoke as necessary the license of persons performing electrical work within the municipal limits of Marshfield; review the municipal electrical code in order to keep it up to date with changes in technology or the state electrical code; act in an advisory role to the electrical inspector; be an informational conduit to the electrical contractors, the general public, and the council; and recommend electrical permit fees, subject to approval by the council.

(Code 1982, § 16.03)

Sec. 17-37. Creation of offices, qualifications and duties.

(1) *Offices created.* There are hereby created the offices of electrical inspector and deputy electrical inspector.

(2) *How appointed.* The council shall appoint the electrical inspector, and may appoint a deputy electrical inspector, upon the recommendation of the board of electrical examiners.

(3) *Qualifications.* The persons chosen to fill the offices of electrical inspector and deputy electrical inspector shall be of good moral character, possessed of such executive ability requisite for the proper performance of their duties and shall have a thorough knowledge of the standard materials and methods used in the installation of electrical equipment to provide safety to persons and property; the Wisconsin Statutes relating to electrical work; and any rules, ordinances and regulations issued by authority thereof and under the National Electrical Code. They shall meet the qualifications and be certified as a commercial electrical inspector by the State of Wisconsin within six months of being hired.

(4) *Duties.* It shall be the duty of the electrical inspector and the deputy electrical inspector to enforce the provisions of this chapter. Complete records of all permits issued and inspections made and other official work performed under the provisions of this chapter shall be kept by them and so arranged as to afford prompt information concerning electrical installations.

(5) *Inspection.* The electrical inspector and deputy electrical inspector and all assistants acting by their orders shall have the right, during reasonable hours, to enter any public or private building, structure, premises or subways in the discharge of their official duties, for the purpose of making any inspection or test of electrical wires, appliances, equipment and devices contained therein.

- (a) They shall be given prompt access to any premises upon notification to the proper person in authority thereof. The electrical inspector or deputy electrical inspector may inspect all the electrical installations and apparatus in the factories, mills, shops, and other places of occupancy in the city and when such installations or apparatus are found to be in a dangerous condition, they shall notify the person owning, using, operating or installing the electrical installations and apparatus to place them in a safe condition.
- (b) Any person failing or refusing to make the necessary repairs and failing to have the repairs completed within 15 calendar days after the receipt of such notice shall forfeit and pay into the city treasury the sum of \$50.00 for each day which shall elapse after the expiration of such period.
- (c) The electrical inspector shall be permitted to order the discontinuance of electrical service to such defective installations or apparatuses until they have been repaired, removed, or changed as directed by the electrical inspector, subject to the limitations of this chapter.
- (d) An inspection shall be made as soon as is practical if a complaint is made by a tenant, the municipal electric utility, or other concerned citizen on problems of an electrical nature.

(6) *Authority.* The electrical inspector and/or deputy electrical inspector shall have the general management and control of all matters pertaining to electrical inspections and enforcement of relevant law, to include authority to cause the turning off of all electrical currents to any equipment which they find to be in an unsafe condition, and to cut off or discontinue electrical services in case of emergency and where such electrical currents are dangerous to life or where such currents may interfere with the work of the fire department. No person shall reconnect any equipment thus cut off until written permission is obtained from the electrical inspector or a designated representative. The electrical inspector or the deputy shall have the authority to enter all buildings and premises and all parts thereof, in order to make an inspection, or test the electrical apparatus or wiring therein or thereon in order to enforce the regulations of this chapter. The issuance of a valid electrical permit shall also constitute permission to inspect the premises where electrical work is being performed. Refusal to allow reasonable inspections shall constitute grounds for revocation of the permit and any electrical work shall no longer be continued. The electrical inspector and/or deputy electrical inspector or their authorized agent shall have the power to issue citations enforcing this chapter and nuisances under chapter 11 of this Code in the Marshfield Municipal Court.

(Code 1982, § 16.04; Ord. No. 1031, § 5, 10-12-2004)

Sec. 17-38. Licenses.

(1) *License required; exceptions.* No person shall engage in or undertake to do any electrical work as defined in this chapter, within the City of Marshfield, except in the usual operation of public or private electrical utilities relating to those portions not covered by the State of Wisconsin electrical code, without first having procured a proper license therefor, as provided in this section. All such licenses shall be issued by the board of electrical examiners, subject to approval by the council. Except as provided elsewhere in this chapter, any electrical components or devices installed by an unlicensed person shall be removed by the owner within 15 calendar days after notice is given. The owner of the property shall be responsible for any costs incurred for this removal if the electrical inspector orders this removal and the owner does not comply. All electrical work as outlined under 17-41(2) shall be performed under the supervision of a municipal licensed electrical contractor. Exceptions to the license shall be the following:

- (a) HVAC/appliance installers as outlined in subsection (3) of this section.
- (b) Listed sign installers as outlined in subsection (4) of this section.
- (c) Nonlicensed persons as outlined in subsection (10) of this section.
- (d) Homeowners as outlined in section 17-44 of this chapter.
- (e) Industrial/commercial/institutional/maintenance electricians as defined in section 17-03 of this chapter.
- (f) The Marshfield Electric and Water Department may perform electrical work, without a license, on medium-voltage installations and the low-voltage connections directly related to these installations, that are located on customer-owned facilities. This electrical work shall be subject to the inspection and permit requirements of this chapter.

(2) *License classifications.* There shall be four classes of electrical licenses, as follows:

- (a) *Master electrician's license.* A master electrician's license shall be granted to any person certified as a State of Wisconsin master electrician by the State of Wisconsin Administrative Code.
- (b) *Journeyman's license.* A journeyman electrician's license shall be granted to any person certified as a State of Wisconsin journeyman by the State of Wisconsin Administrative Code. Such license shall not entitle such journeyman to do any electrical wiring or any other electrical work in the city except under the employment of and the supervision of a duly qualified licensed electrical contractor.
- (c) *Electrical contractor's license.* An electrical contractor's license shall be granted to any person certified as a State of Wisconsin electrical contractor by the State of Wisconsin Administrative Code. An electrical contractor's license may be granted to a State of Wisconsin certified master electrician who provides proof of a minimum \$250,000.00 general liability insurance providing coverage for the provision of electrical contracting services for the individual or firm by which employed, by filing with the electrical inspector a certificate of insurance for the performance of electrical work.

(d) *Plant electrician's license.* A plant electrician's license shall be granted to any person defined in section 17-03 of this chapter upon an application being filed. Such license shall be null and void if the licensee leaves the employ of the plant or factory where he or she was employed at the time of issuance of such license. Such electrician, while working at the employer's place of business, need not be under the direct supervision of the electrical inspector or a municipal licensed electrical contractor. Upon leaving the employ of the plant, factory, or industrial/commercial/institutional employer the status of this person may be changed to that of a municipal journeyman electrician and this person may perform work for an electrical contractor.

(3) *HVAC/appliance installers.* Any qualified individual who is currently an owner or employed by a State of Wisconsin certified HVAC or state licensed plumbing firm, and only while working under the employment of or as owner of these firms, may connect, disconnect, reconnect, and provide maintenance to central heating, central air conditioning, water heaters, electric ranges, clothes dryers, and electric heating equipment in new or existing commercial, residential, or industrial applications. The individual shall not extend, replace, or otherwise modify existing electrical wiring, other than minor changes to facilitate direct equipment replacement, nor shall the individual add new electrical circuits. This individual shall be qualified by the employer to have sufficient knowledge of the type of work involved to ensure that the work will be performed safely and in accordance with the requirements of all applicable codes. New circuit wiring or new circuit extensions to these appliances shall be subject to the permit and inspection provisions of this chapter.

(4) *Sign installers.* All nonlicensed persons performing electrical work or repairs on any neon or illuminated signs shall be employed by a listed sign company. Sign companies shall show proof of a minimum of \$500,000 of liability insurance related to this work.

(a) Neon signs. Sign installation companies that are qualified by and listed by Underwriters' Laboratories, Inc. (UL) and are registered with the electrical inspector's office, may install and repair components of and wire the secondary (high voltage) side of neon signs, field-installed neon skeleton signs, and field-installed neon outline lighting as set up by UL's program and article 600 of the NEC without a license. These installers may hook up only the final branch circuit connection on the primary (low voltage) side to these listed signs that are created under this program. Only licensed electricians may install the primary branch circuit to the point of the neon's transformer connection. An electrical permit is required for all new neon installations.

(b) Illuminated signs. Companies listed and qualified by a nationally recognized testing laboratory, that have registered with the electrical inspector's office may connect, reconnect, or make repairs to illuminated signs as defined by the National Electrical Code without a license. All wiring involved shall not be concealed until inspected. These installers may only hook up the final branch circuit connection to these signs. Only licensed electricians shall install any part of the branch circuit wiring to the point of the sign's connection. All types of illuminated signs or outside lighting shall be listed by a nationally recognized testing agency or they shall not be installed in this municipality. Relocated signs shall be listed before they are reinstalled at the new

the new location. All listing marks of the listing agency shall be clearly visible after installation from grade level by a permanent label or stamping process. New circuit wiring or new circuit extensions to these signs shall be subject to the permit and inspection provisions of this chapter.

(5) *Application.* Application for all licenses required by this chapter shall be made to the electrical inspector on forms furnished by the city and shall contain a record of the applicant's training and experience in the installation and repairing of electrical wires, equipment, devices and apparatus, duly vouched for by instructors or licensed electricians under whom he or she may have served. A copy of his or her State of Wisconsin certification shall be an acceptable record of training. A state-certified person may have a license issued upon the signature of the electrical inspector.

(6) *Expiration.* All licenses issued under the provisions of this chapter shall be valid for a period of three calendar years, and shall expire on June 30 of the third calendar year, unless sooner revoked. This three-year cycle commenced on July 1, 1996. Licenses may be renewed with the finance director for the three-year renewal fee. All applications for renewal of existing licenses shall be filed with the city clerk, not later than June 1 of the three-year cycle period and require the approval of the electrical board. No license shall be issued, whether original or renewal, unless the required fee has been paid. If a license is permitted to expire, the former holder thereof shall have the same status as a person not previously licensed. The fees for the various licenses required by this chapter shall be as specified in subsection (9) of this section. All municipal granted electrical license holders, as defined by 17-03, who wish to maintain this status, shall show proof of at least 18 hours of continuing education relative to their equivalent license category before a renewal is granted. This proof shall consist of a copy or copies of a certificate of completion for State of Wisconsin approved continuing education unit's (CEU's). The required education shall be achieved during the previous license period and prior to April 1st of the renewal year. This requirement shall go into effect for the July 1, 2008 license renewal period and continue for all subsequent renewals.

(7) *Lapse of license.* If any person ceases, during the term of such license, to be actively engaged in the kind of electrical work for which the license is held, such license shall lapse upon motion of the board of electrical examiners. Such license may be reinstated if such person desires to reenter the field of electrical work, upon proof being given that this person is certified by the State of Wisconsin.

(8) *Scope.* Any license granted under this chapter shall be valid only within the corporate limits of the city.

(9) *Fees.* All licenses shall be issued for three years commencing July 1 and expiring June 30 per the three-year National Electrical Code cycle year of adoption, unless sooner revoked. The fees for such licenses shall be paid to the finance director. The fees for the licenses are as follows:

- (a) Journeyman and plant electrician, \$30.00.

- (b) Master electrician, \$30.00.
- (c) Electrical contractor license, \$100.00

(10) *Nonlicensed persons.* A license is not required for the following persons:

- (a) An indentured apprentice, material handler, or state-certified beginning electrician may perform electrical work as defined in section 17-03 of this chapter in the city, only if he or she is under the direct supervision of a duly qualified master or journeyman electrician who shall hold a city license. This work shall not include working on energized circuits or equipment.
 - 1. Direct supervision shall mean abiding by the following ratio: The first person on the work site shall have a municipal master or journeyman's license. The next four people on the job may be any combination of indentured apprentices, state-certified beginning electricians, or material handlers. At no time on a job site shall there be more apprentices than journeymen workers. For any additional workers exceeding these five people the first person shall be a municipal licensed master or journeyman with the rest of the ratio enforced. This ratio shall be maintained for the entire quantity of workers employed at each work site. The required number of licensed electricians shall always be present at each job site for this "direct supervision" if there are unlicensed people performing electrical work there.
 - 2. Up to two fifth-year State of Wisconsin indentured apprentice electricians shall be allowed to work at each job site without being included in this ratio. If there are more than two fifth-year apprentices at a job or work site, they shall be included in this ratio. Fifth-year apprentices shall not supervise any persons performing electrical work.
 - 3. For the purposes of this chapter, a job site or work site is considered to be the physical location where employees report for their work assignments and/or perform electrical work. The employer's workshop or service center shall be considered to be a separate, single job site. All other physical locations where workers report for work or perform work are each considered to be a separate, single job site. Every such indentured apprentice, certified beginning electrician or material handler shall, prior to commencing electrical work within the city, register with the electrical inspector.
- (b) A fifth-year State of Wisconsin indentured apprentice electrician shall be allowed to perform electrical work without a license and without either a master or journeyman electrician being physically present at a job site, provided that the master electrician for their firm be responsible for the apprentice's work. Fifth-year apprentices shall not supervise any other persons performing electrical work as outlined in this chapter. The apprentice's employer shall provide proof of the fifth-year apprentice's status before that person shall be allowed to work without the required licensed electrician's direct supervision.

- (c) This subsection shall not be applicable to electrical work on mobile homes, modular homes or any other manufactured structure being done within the manufacturing plant or factory.

(Code 1982, § 16.06; Ord. No. 947, § 1(16.06), 11-27-2001; Ord. No. 972, § 1, 2-25-2003; Ord. No. 984, § 1 (16.06(9)), 7-22-2003; Ord. No. 1024, § 1, 6-22-2004)

Sec. 17-39. License renewal procedure.

No license issued under this chapter shall be renewed without the approval of the board of electrical examiners. Such board shall, at the monthly meeting preceding the expiration date of all licenses issued under this chapter, conduct such examination and inspection and investigation as the board deems necessary to approve such renewals.

(Code 1982, § 16.08)

Sec. 17-40. Revocation of licenses.

(1) *Revocation.* Any license granted under the provisions of this chapter shall be revoked by the council upon the recommendation of the electrical inspector and the board of electrical examiners if the licensee violated any ordinance or law relating to electrical work, or if the installation of electrical wires, materials, fittings, devices, appliances, fixtures, equipment or apparatus is such that shall cause or may cause hazard to life, limb or property.

(2) *Status.* When a license has been revoked, the former holder thereof shall have the same status as a person not previously licensed.

(3) *Reapplication.* Any person whose license has been revoked shall not be eligible to apply for another license for a period of one year.

(Code 1982, § 16.09)

Sec. 17-41. Permits.

(1) *Permit applications.* Permits shall be required for all electrical work done or performed in the city by those homeowners who are allowed to wire by section 17-44 of this chapter. Any electrical work performed on electrical services, including repairs; or any wiring for fire alarm or asset protection systems, including changes to existing systems, shall require an electrical permit. All other electrical work performed in the city that has a minimum dollar value of \$350.00 for parts and labor shall require a permit. All permits shall be issued by the electrical inspector upon the filing of a proper application by the person proposing to perform the work on forms furnished by the inspector. Applications shall describe the nature of the work to be performed, include an electrical wiring plan, and such other information as may be required by the inspector. No electrical work shall be done until such permit has been obtained. A facsimile (fax) permit form signed by a representative of a municipal licensed electrical contracting firm that is sent to the electrical inspector's office shall be considered as proper application for a permit. Electrical wiring for all new buildings and additions to buildings shall require a permit no matter the value of the work. All electrical permit fees shall be paid for and wiring plan(s) approved before a permit

mit application is considered to be valid and a permit issued for the work as described. An electrical permit shall expire six months after it is issued unless significant progress has been made toward completion of the project for which the permit was issued. The electrical inspector may grant a six-month extension on this initial permit.

(2) *Required.* Permits shall be required for all electrical work and required inspections of existing facilities, including but not limited to:

- (a) Wiring for light, heat or power in any building or structure.
- (b) Installing fixtures in any building or structure.
- (c) Installing any motors.
- (d) Any service entrance and all electrical openings.
- (e) The extension or alteration of any existing circuit.
- (f) Primary and secondary wiring of electric signs, both indoor and outdoor.
- (g) Electric billboards and signboards.
- (h) Field-installed neon skeleton signs or field-installed neon outline lighting.
- (i) Wiring of all elevators, both freight and passenger.
- (j) Replacing or repairing an old or existing service.
- (k) Temporary wiring, including temporary electrical services, on new or remodeled buildings. The application for this permit shall state the length of time for which such temporary work shall exist. Such permit shall be granted for not more than 60 days, but such period may be extended in writing by the electrical inspector. The permittee shall be responsible for any hazards or dangers that might exist during the period of this temporary wiring, and shall remove all such temporary wiring upon the expiration of the period.
- (l) All fire alarm and asset protection system wiring including any changes to existing systems.

(3) *Not required.* No permit shall be required for the following:

- (a) The manufacturing, assembling, repairing or testing of listed electrical equipment for which no license is required.
- (b) Minor repairs of cords, flush snap switches, replacing fuses, or repairing luminaires.
- (c) The installation of any plug-in appliances of less than 1,500 watts.
- (d) Any electrical work not covered by the State of Wisconsin Electrical Code or the National Electrical Code, that is done or performed by the city electric department in the normal and ordinary course of utility business or operations.

- (e) Direct replacement due to damage or defect of any existing individual receptacle, switch, lighting fixture, or motor on an existing branch circuit. This replacement shall not constitute changes to the branch circuit that supplies these devices other than small changes to permit this direct change.
- (f) Rewinding or replacing electric motors.
- (g) Connecting, disconnecting, reconnecting or repairing any cord-connected appliance which has been approved by a nationally recognized testing agency, the department of commerce, or the electrical inspector.
- (h) Electrical work completed by listed sign installers or HVAC/appliance installers under 17-38(3) or 17-38(4)(b). All new circuit wiring or new circuit extensions to these electrical items shall be subject to the licensing, permit, and inspection provisions of this chapter.

(4) *Fees.* Fees for the permits required to be obtained as set forth above shall be as follows, and they shall be paid to the City of Marshfield prior to the issuance of any such permits:

- (a) All residential.
 - 1. Minimum electrical permit fee = \$30.00
 - 2. New construction and additions five cents per square foot of building construction.
 - 3. Remodeling and alterations 2% of electrical construction cost.
 - 4. Residential (single-family, owner occupied) one bathroom, kitchen or laundry room remodel done by owner. See Section 15-03(2) e.
 - 5. Residential service upgrades = \$40.00
- (b) Commercial, industrial, institutional and miscellaneous.
 - 1. Minimum electrical permit fee = \$30.00
 - 2. \$0 - \$500.00 = \$30.00
 - 3. \$500.01 - \$2,500.00 = \$30.00 plus 1.25% over \$500
 - 4. \$2,500.01 - \$25,000.00 = \$55.00 plus .75% over \$2,500
 - 5. \$25,000.01 - \$250,000.00 = \$223.75 plus .5% over \$25,000
 - 6. Over \$250,000.00 = \$1,348.75 plus 0.3% over \$250,000
- (c) All temporary services = \$35.00
- (d) Mobile home connection fees = \$30.00
- (e) All carnival or circus operations = \$125.00 per event for the duration of the event as stated on the approved permit.

- (f) Swimming pools = \$40.00
- (g) Failure to obtain an electrical permit prior to commencing work = \$100.00 or double permit fee whichever is more, except for emergency work.

(5) *Work Halted.* The Electrical Inspector shall have the authority to order any work halted where no permit has been obtained, if required, except in cases of emergency, in which case the permit must be obtained the next business day.

(6) *Industrial/Commercial/Institutional Employer's Log.* Industrial/Commercial/Institutional Employers as defined by Section 17.03 shall keep a written log of all electrical work performed requiring a permit as outlined in this Section. All electrical work projects that cost under \$2,500.00 for time and material shall be totaled once a month. A permit and a copy of that month's log shall be filed with the Electrical Inspector by the fifteenth day of the following month. Permits shall be filed with the Electrical Inspector on electrical work projects costing over \$2,500.00 for time and material before work is commenced.

(Code 1982, § 16.11; Ord. No. 947, § 1(16.10), 11-27-2001; Ord. No. 971, § 1, 1-28-2003; Ord. No. 1024, § 1, 6-22-2004; Ord. No. 1037, § 1, 1-11-2005; Ord. No. 1049, § 1, 5-24-2005; Ord. No. 1067, § 1, 3-28-2006; Ord. No. 1111, § 1, 9-25-2007; Ord. No. 1135, § 1, 8-12-2008)

Sec. 17-42. Withholding of permits.

If a licensed contractor or other person has installed or caused to be installed any wiring devices, apparatus or fittings constituting a hazard, and is notified by the electrical inspector of such hazard, such person shall be barred from doing any more work on that job or any other job until such time as the hazard is eliminated or corrected and approval given to continue by the electrical inspector.

(Code 1982, § 16.14(2))

Sec. 17-43. Electrical inspection.

(1) *Notification.* Upon completion of the performance of any electrical work for which a permit is required under the terms of this chapter, and before any such work is hidden from view, the permittee shall notify the electrical inspector's office. The inspector shall inspect such work within two business days after such notice is received. If the inspector determines that such work fully complies with all applicable codes, and is otherwise safe, he or she shall approve the work. The work can then be covered and/or completed. If the inspector determines that the work is otherwise than in compliance with this subsection, he or she shall order the permittee to make such changes or additions as may be necessary, to be completed within a period of ten days. When such changes or additions have been made, the electrical inspector shall be notified, and shall reinspect the work. The inspector's office shall be notified at least two business days before covering any wiring or before occupancy takes place for work completed under provisions of this chapter.

(2) *Reinspection.* The electrical inspector shall have the authority to reinspect any electrical work wherever and whenever he or she deems it necessary.

(3) *Scheduling.* All requests for inspection shall be made to the inspector by 12:00 noon for inspection two business days prior to the requested inspection. No inspections shall be made on Sundays or legal holidays, unless the inspector deems it necessary.

(4) *Red tags.* Red tags, furnished by the city bearing the owner's name, address, and violation needing correction, shall be attached to all electrical work needing correction. These tags shall not be removed except by the electrical inspector, or some person authorized by the inspector, after approval of the work.

(5) *Red caution tape.* A red caution marking tape is required to be installed 12 inches above all buried electrical power cables or conduits buried for the purpose of containing electrical power wires. Other than telephone, cable TV and Class 2 protected wiring, all wiring methods installed using an open trench method of burial that are not totally encased in two inches or more of concrete shall have this warning tape. Code allowed wiring installations that are less than 18 inches deep shall have this warning tape placed six inches above the installation.

(6) Each separate electrical service on city owned property shall consist of a single main disconnect other than a service that supplies power to a fire pump or other system required to be separated for reasons of safety.

(7) All power wires installed below grade or exposed on public property in the City of Marshfield or going to City of Marshfield facilities shall be enclosed in a listed conduit system.

(8) A minimum electrical supply of 100 amps shall be installed for each individual dwelling unit.

(9) Two wire receptacles devices on two wire circuits, when changed, shall be replaced with GFCI protected and labeled three wire receptacles.

(Code 1982, § 16.13; Ord. No. 984, § 1 (16.15), 7-22-2003; Ord. No. 1111, § 1, 9-25-2007)

Sec. 17-44. Homeowner's privilege.

(1) *Permits.* No person shall wire his or her home or any part thereof, or make any changes or additions to the wiring therein without first securing permission from the electrical inspector. The inspector shall determine whether such person has sufficient knowledge of the work contemplated in order to do such work in a proper manner. The inspector may issue a permit for such work. The only type of person contemplated under this section is a property owner installing electrical wiring in a single-family residential dwelling which is owned and occupied by such person at the time the work is to be completed, is their legal residence, and is not for sale or for rent in whole or part. Only State licensed and/or certified Journeyman and Master Electricians may install, repair, or do work on electrical services.

(2) *Affidavits.* Prior to receiving the permit for electrical work, and as a condition thereto, the homeowner shall execute an affidavit certifying that all of the electrical work shall be done by himself at the premises concerned and it will fully conform in all respects with the requirements of the state and city electrical codes and all pertinent ordinances of the city. The city and the electrical inspector are absolved from any liability because of a noncompliance of any such electrical work with the requirements of such codes and/or ordinances.

(3) *Inspections.* At least two business days before any electrical construction is concealed the owner must request an inspection of that part of the electrical construction. At the completion of all work this nonlicensed person must notify the electrical inspector for a final inspection at least two business days before this wiring is utilized. Any defects shall be corrected within 15 days after any notification. A refusal to do so in a timely matter shall constitute a violation of this chapter.

(Code 1982, § 16.09; Ord. No. 1111, § 1, 9-25-2007)