

## ARTICLE B

### Electrical Code

#### SEC. 15-1-30 STATE ELECTRICAL CODE ADOPTED.

- (a) Wis. Adm. Code ILHR Ch. 24 is hereby adopted by reference and made a part of this Chapter and shall apply to the construction and inspection of new one- and two-family dwellings and additions or modifications to existing one- and two-family dwellings.
- (b) Subject to the exceptions set forth in this Chapter, ILHR 16, ILHR 17 and PSC 114 of the Wisconsin Administrative Code are hereby adopted by reference and made a part of this Chapter and shall apply to all buildings, except those covered in Subsection (a) above.

#### SEC. 15-1-31 ELECTRICAL INSPECTOR.

- (a) **RIGHT OF ACCESS TO BUILDINGS.** The Electrical Inspector or his assistants shall have the right during reasonable hours to enter any public or private buildings, premises or subway in the discharge of his official duties or for the purpose of making any inspection or test of the electrical wires or appliances contained therein. He shall be given prompt access to any premises upon notification to the proper authority.
- (b) **AUTHORITY TO DISCONTINUE ELECTRICAL OPERATIONS.** The Electrical Inspector shall have the authority to cause the turning off of all electrical currents to any equipment which he shall find to be in an unsafe condition and cut or discontinue electrical service in case of emergency and where such electrical currents are dangerous to life or property or may interfere with the work of the Fire Department. No person, firm or corporation shall reconnect any equipment thus cut off until written permission is given by the Electrical Inspector.
- (c) **PERIODIC INSPECTION.** The Electrical Inspector periodically may make inspection and thorough examinations of all the electrical wires and appliances installed with the City of Menasha and when such wires and appliances are found to be in a dangerous or unsafe condition he shall notify the person, firm or corporation owning, using, operating or installing the same to place them in a safe condition. Any person, firm or corporation failing or refusing to make the necessary repairs or changes, and have such completed within fifteen (15) days after the receipt of such notice shall be subject to a forfeiture as prescribed in this Chapter. The Electrical Inspector is hereby empowered with authority to order the discontinuance of electrical service to such defective wires or equipment until they have been repaired, removed or changed as directed by the Electrical Inspector, subject to the limitations of this Chapter.

## **SEC. 15-1-32 DEFINITIONS.**

- (a) **ELECTRICAL WORK.** "Electrical work" means and includes the installation, superintending or inspection of electrical wiring and equipment for the production, modification, utilization or safeguarding of electrical energy as covered by the Wisconsin State Electrical Code, the provisions of which so far as applicable are hereby adopted by reference thereto together with amendments hereafter validly made.
- (b) **MASTER ELECTRICIAN.** The work of a "Master Electrician" consists of the planning or superintending and the installing, altering or repairing of electric wiring and equipment, as covered by the Wisconsin State Electrical Code. Before any person shall be licensed as a Master Electrician, he must have served at least three (3) years as a Journeyman Electrician, must pass the examination for a Master Electrician license and shall have complied with all requirements for a Master Electrician license.
- (c) **JOURNEYMAN ELECTRICIAN.** The work of a "Journeyman Electrician" consists of the installing, altering, or repairing of electrical wiring and equipment as covered by the Wisconsin State Electrical Code. Before any person shall be licensed as a Journeyman Electrician he shall have completed a four (4) year apprenticeship in the trade and must pass the examination of a Journeyman Electrician license and shall have complied with all requirements for a Journeyman Electrician license.
- (d) **ELECTRICAL APPRENTICE.** An "Electrical Apprentice" is a person, sixteen (16) years of age or over who shall enter into any contract of service, expressed or implied, whereby he is to receive from or through his employer in consideration of his services, as in whole or in part, instruction in the electrical craft. All Apprentice Electricians shall be indentured and serve an apprenticeship under the State Statutes before being eligible to make application for a Journeyman Electrician license.
- (e) **PLANT ELECTRICIAN.** A "Plant Electrician" may be a Journeyman or Master Electrician regularly employed by a person, firm or corporation and whose electrical work for such employer is limited exclusively to the plant or shop of his employer.

## **SEC. 15-1-33 ELECTRICIAN LICENSES.**

- (a) No person shall perform the work of Master Electrician unless licensed by the City of Menasha after having satisfactorily passed the examination for a Master Electrician license.
- (b) No person other than indentured Electrical Apprentices shall perform any of the work of a Journeyman Electrician unless licensed by the City of Menasha after having satisfactorily passed the examination for a Journeyman Electrician license.
- (c) A Master Electrician license shall entitle the holder to the rights and privileges conferred by a Journeyman Electrician license. Every Master and Journeyman Electrician, while actually performing the work to which this Section applies, shall carry such credentials as may be prescribed by the City of Menasha.

- (d) No person, firm or corporation shall perform the work for which a Master Electrician license is required, unless at all times a licensed Master Electrician is regularly, fully and continuously employed to supervise the work.
- (e) Master and Journeyman Electrician licenses shall be issued by the City of Menasha subject to the provisions of this Section. Such licenses shall not be assignable or transferable.
- (f) Every Electrical Contractor and Journeyman Electrician of the City of Menasha who is engaged in this work as his principal occupation, shall be licensed respectively as Master Electrician or Journeyman Electrician without examination not later than thirty (30) days after the date of this Chapter. Such persons, however, may be required to show their qualifications as Master or Journeyman Electricians by an affidavit of some person qualified in the opinion of the examining board to be a competent judge of such qualifications.
- (g) Employees of electrical, telephone, telegraph and railway utilities may perform the planning or superintending and installation, operation and maintenance of equipment and materials required for the operation of the business of such utilities without a license, but when said employees perform said work on property or premises of other persons, firms or corporations, except when making service connections and installing and testing transformers, meters and other equipment ordinarily furnished by and remaining the property of the electric company, they shall be licensed in the same manner provided for in this Chapter, and failure to be so licensed shall constitute a violation of this Chapter.
- (h) Indentured apprentices, who shall be registered with the Electrical Inspector, may work without a license, but shall at all times work under the immediate supervision of a licensed Master or Journeyman Electrician. The operating engineers and their assistants in charge of power generating plants, prime movers, and all auxiliary equipment and appliances connected therewith, shall be exempt in the supervision, maintenance, repairs, and in the operation of the electrical equipment under their jurisdiction, and this Chapter shall not apply to them.
- (i) Application for a license shall be made to the Electrical Inspector on forms furnished by him. Before such a license shall be issued, the application therefor shall be approved by the Board of Electrical Examiners which shall determine the fitness of the applicant for the license.
- (j) Fees for Master and Journeyman Electrician's Licenses shall be as set in Article E of this Chapter. All such licenses shall be issued for one (1) year commencing on the 1st day of March and expiring on the last day of February following, unless sooner revoked. The fees for such a license shall be paid to the City Treasurer.
- (k) Any license granted under the provisions of this Article may be revoked by the Board of Electrical Examiners if the license violates any ordinance or the law relating to electrical work, or is guilty of installing electrical construction which is a hazard to life or property. When a license is revoked a new license shall not again be granted to the same licensee for a period of thirty (30) days nor until the faulty construction is corrected in accordance with the provisions of the Electrical Code, and the applicant shall have made application and paid the fees as required for the original license. The Board of Electrical Examiners shall have discretionary power

to withhold the granting of a new license for cause for a period not to exceed six (6) months.

#### **SEC. 15-1-34 PERMITS.**

- (a) **PERMITS.** The Electrical Inspector shall issue permits for all electrical installations for light, heat or power upon the filing of proper application which shall be made on forms furnished by the Inspector, and shall prescribe the nature of the work as well as such other information as may be required for inspection. In no case shall any electrical work be started unless a permit has been obtained, unless the same is expressly exempt from the effect of this Article.
- (b) No permit shall be required for repairs made necessary for the proper maintenance of an existing installation.
- (c) Special permits shall be filed out by the Master Electrician for work that does not require immediate inspection.
- (d) On applying for a permit for temporary work, a specified period of time for which such wiring is to remain in service must be stated. Service shall be cut off at the end of this period and shall not again be connected without written permission from the Electrical Inspector.

#### **SEC. 15-1-35 INSPECTION.**

Upon completion of the wiring of any building or before any working is to be hidden from view, it shall be the duty of the person, firm or corporation doing the same to notify the Electrical Inspector and he shall inspect the installation within twenty-four (24) hours of the time such notice is received. If, upon inspection, it is found that such installation is fully in compliance with this Chapter and does not constitute a hazard to life or property, he shall approve the same and authorize concealment of such wiring or connection for electrical service. If the installation is incomplete or not strictly in accordance with this Chapter, he shall issue orders to the person, firm or corporation installing the same to remove all hazards and make the necessary changes or additions within ten (10) days. Concealment of electric work before inspection or failure to comply with an order of the Electrical Inspector shall constitute a forfeiture punishable in accordance with the provisions of this Chapter.

#### **SEC. 15-1-36 CERTIFICATES OF INSPECTION.**

Electrical current shall not be turned on for any electrical installation until a certificate of inspection has been issued by the Electrical Inspector. However, in occupied buildings where a permit for light fixtures has been issued, the Electrical Inspector may authorize the installation of meters for electric service after the wiring has been inspected and approved.

#### **SEC. 15-1-37 CONSTRUCTION REQUIREMENTS.**

- (a) Except where noted below, the Wisconsin Administrative Code for electrical construction materials and practices shall prevail:
  - (1) Physical Protection -- The Wisconsin Administrative Code's requirements are construed to cover exposed wiring in basement areas or on surfaces of walls, partitions, floors or ceilings.
- (b) Where a building is served water through a non-metallic water service pipe from a connection to a metallic water supply system, a continuous copper grounding electrode conductor shall be installed from the electric service equipment to an approved connection on the metallic water supply water system. The size and method of installation of the grounding electrode conductor shall conform to the requirements of the Wisconsin State Electrical Code.

**SEC. 15-1-38 ARBITRATION.**

When the Electrical Inspector condemns all or part of the electrical installation in any building, the owner within five (5) days after receiving written notice of same from the Electrical Inspector may file a petition in writing for review of such action of the Electrical Inspector with the Chairman of the Electrical Examination Board, upon receipt of which said Board shall at once proceed to determine thereby whether said electrical construction complied with this Chapter and within three (3) days shall make a decision in accordance with its findings.

## **SEC. 15-1-39 RECORDS OF PERMITS AND INSPECTIONS.**

The Electrical Inspector shall keep complete records of all permits and inspections made, and other official work performed under the provisions of this Chapter, and shall be provided with the necessary supplies to carry out the provisions of this Chapter.

## **SEC. 15-1-40 PREFABRICATED OR MODULAR DWELLING UNITS.**

- (a) **MODULAR OR PREFABRICATED RESIDENTIAL UNITS DEFINED.** A modular or prefabricated residential building is defined for the purposes of this Electrical Code as one constructed away from the site upon which it is to be erected. The building manufactured is either a completed one or in completed sections which are intended for assembly at the building site into a finished unit. The modular or prefabricated residential building is differentiated from a trailer in that the former is not intended for delivery on its own running gear.
- (b) **PERMIT FEES.** Permit fees for modular or prefabricated residential buildings shall be the same as for on-site conventional wiring installations.
- (c) **INSPECTIONS.** Duties of those seeking permits:
  - (1) Persons, firms or corporations seeking permits for the installation or assembly of modular or prefabricated residential units shall furnish to the City of Menasha Electrical Inspector suitable notice of when such units are under construction. It shall then be the duty of the Electrical Inspector to determine if the methods, materials, and practices employed by the manufacturer meet the requirements of the City of Menasha Electrical Code. This determination is to be made by inspection at the manufacturer of the prefabricated or modular residential unit to determine whether the unit is in complete compliance with the requirements of the City of Menasha Electrical Code. The inspection requirement may be satisfied by an inspection made by a local inspector who is licensed by the State in which the fabrication or manufacturing takes place, or by others deemed qualified by the authority which enforces this Electrical Code.
  - (2) The manufacturer of the modular or prefabricated residential unit shall furnish to the Electrical Inspector of the City of Menasha or his authorized agent, electrical wiring drawings of each unit, together with bills of materials and a notarized affidavit certifying that the residential unit is in compliance with the City of Menasha Electrical Code.
  - (3) The builder of the prefabricated or modular residential unit shall employ the services of a Master Electrician who is licensed by the City of Menasha, who in turn shall secure a wiring permit for all wiring on or in the building, including the on-site wiring and the wiring done at the factory.
- (d) **CERTIFICATES OF OCCUPANCY REQUIRED.** Before any unit of a prefabricated or modular construction nature, as defined in this Electrical Code, may be occupied a certificate of occupancy must be obtained first from the Building Inspector. The Building Inspector shall issue said certificate of occupancy only after

- he has determined that all permit and inspection fees have been paid and bonds have been filed.
- (e) **BOND REQUIRED.** Every person, firm or corporation engaged in the building of prefabricated or modular homes in the City of Menasha shall prior to the issuance of a permit by the Building Inspector file with him an official bond in a penal sum equal to the cost of construction with a recognized surety company authorized to do business in the State of Wisconsin. The bond surety must be approved by the City Attorney and run for a period of four (4) years on the conditions that the City for the use of itself or any citizen will be indemnified for damages by improper electrical work.

**SEC. 15-1-41 THROUGH SEC. 15-1-49    RESERVED FOR FUTURE USE.**