

Inspection and Technical Services

Electrician Licences

ITS 21-036

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Inspection and Technical Services (ITS) issues different electrician licences based on *The Electricians' Licence Act* and *The Electricians Licensing Regulation*. This includes journeyperson licences and limited specialized trade licences.

Journeyperson Licences

The journeyperson licences are issued to individuals who have completed an apprenticeship trade in the electrical field where the trade is defined as a designated trade in *The Apprenticeship and Certification Act*, the tasks, activities and functions of which include performing electrical work. These licences include:

- **Journeyperson Construction Electrician (HC Licence)** – this licence holder plans, assembles, installs, repairs, tests and maintains electrical fixtures and systems that provide heat, light, power or control in residential, commercial and industrial buildings; and is authorized to do electrical work on, or in connection with, any building or installation.
- **Journeyperson Industrial Electrician (HI Licence)** – this licence holder plans, installs, tests, inspects, troubleshoots and services all types of industrial electrical equipment vital to the operation of commercial and industrial businesses; and is authorized to do electrical work on, or in connection with, any building or installation.
- **Journeyperson Power Electrician ('PE' Licence)** – this licence holder is involved in a continuing construction and maintenance program of electrical plant, sub-station and line apparatus associated with the generation, conversion, regulation, control, transmission and supply of electrical power in the Province of Manitoba. This licence holder is only allowed to work on power systems.

The Electricians' Licence Act does not prohibit the Apprenticeship and Certification Board to prescribe the ratio of apprentices to journeypersons that may be employed by an employer in a designated electrician trade under *The Apprenticeship and Certification Act*.

Limited Specialized Trade Licences

The limited specialized trade licences (also known as 'M' Licences) are issued to individuals who are regularly employed in a trade other than the electrical trade.

A person who holds one type of these licences regularly encounters electricity as part of the work in his or her trade. The licence holder is permitted to do electrical work only in connection with an installation directly associated with that other trade. These licences can also have conditions printed on the licences limiting the scope of work the holder can conduct. The next page breaks down the scope of each licence currently offered by ITS. Licences not currently listed may be renewed, please contact ITS for more information: ITSTrades@gov.mb.ca

Available Limited Specialized Trade Licences

- **Elevator (M-A) Licence** – The licence holder is permitted to do:
 - All electrical work from the electrical disconnect, for that unit, to any elevating device, or
 - Electrical work from the electrical disconnect to *CSA B355 Platform lifts and stair lifts for barrier-free access only*, as noted on the license.
- **Electric Sign (M-B Licence)** – The licence holder is permitted to do electrical work from the electrical disconnect, for that unit, to the electric sign.
- **Deep Well Pump (M-C Licence)** – The licence holder is permitted to do electrical work from the disconnect, for that unit, to the deep well pump.
- **Generator (M-D Licence)** – The licence holder is permitted to do all electrical work from the electrical disconnect unit, to the generator. This excludes work on transfer switches.
- **Recreational Vehicle (M-E Licence)** – the licence holder is permitted to do electrical work associated with the maintenance, repair and replacement of electrical components on recreational vehicles.
- **Alarm Installer (M-F Licence)** – The licence holder is permitted to do electrical work involved in:
 - The installation to the secondary terminals of a Class II transformer, and the maintenance, testing and repair of alarm systems in all buildings.
 - Alarm installers licence does not permit holder to maintain, or repair fire alarm systems.
 - Except for mechanical protection where required by code the installations of raceways are excluded from this licence.
- **Refrigeration (M-G Licence):**

Interprovincial Red Seal Refrigeration and Air Conditioning Mechanic - receive a licence permitted to do electrical work involved in:

- The maintenance and repair of all refrigeration and air conditioning units.
- The installation of circuit wiring for refrigeration and air conditioning units, providing the circuit does not exceed 30 amperes, 150 volts to ground and limited to the connection to an existing panel board in a single dwelling;

Refrigeration and Air Conditioning Mechanic (Residential) – receive a licence with the condition of “Residential” as noted on the licence. The holder is permitted to do residential electrical work involved in:

- The maintenance and repair of residential refrigeration and air conditioning units, excluding:
 - a) equipment that utilizes single phase electrical energy exceeding 240 volts, 6 gauge wire or 60 amps,
 - b) equipment that utilizes fossil fuels with inputs exceeding 400,000 Btu/hr (118 kW);
 - c) cooling equipment exceeding 65,000 Btu/hr (19kW) in rated capacity; or
 - d) ventilating equipment exceeding 1,200 cfm (566 l/s).
- The installation of circuit wiring for refrigeration and air conditioning units, providing the circuit does not exceed 30 amperes, 150 volts to ground and limited to the connection to an existing panel board in a single dwelling;

- **Instrument Mechanic (M-I Licence)** – The licence holder is permitted to do electrical work
 - In the maintenance and repair of industrial instrumentation equipment.
 - Connection and re-connection of industrial instrumentation equipment to pre-installed wiring circuits and/or systems.
- **Limited Appliance (M-L Licence)** – The licence holder is permitted to do electrical work only in the repair of electrical appliances other than radio and television equipment.
- **Motor Winder (M-M Licence)** – The licence holder is permitted to do electrical work:
 - In rebuilding the electric motors of machines, systems and equipment.
 - Work performed on site by an electrical rewind licence holder is limited to the testing, disconnection, repairing, servicing and reconnection of electric motors and generators.
- **Power Line (M-P Licence)** – The licence holder is permitted to do electrical work in construction, maintenance and repair of high voltage overhead and/or underground power line systems as noted on the licence.
- **Fire Alarm Technician (M-S Licence)** – Holders of this licence will be allowed to maintain, service, and repair fire alarm installations. All installations to be performed by a valid licenced Journeyman Electrician.
- **Technologist/Technician (M-T Licence)** – In cooperation with CTTAM, ITS has a limited license category specifically for Technicians and Technologists who are actively certified CTTAM registrants. The licence holder is permitted to:
 - Install/work on electrical equipment excluding building wiring.
 - To perform modification, maintenance, condition assessment, repair, manufacture, commission, configuration, program, calibrate, test and assemble equipment in accordance with CTTAM Code of Ethics and Classification Scope as recommended by the joint assessment committee.

For more information regarding the scope for the different Classification of M-T Licence holders please visit <https://cttam.com/m-t-limited-license>

- **Manitoba Hydro Utility (M-U Licence)** – The licence holder is permitted to:
 - Install underground utility-owned service entrance cables.
 - Splice these cables and terminate cables in residential meter sockets. The licence holder is not permitted to splice or terminate cables in which the circuit voltage will not exceed 150 volts to ground.
 - Install underground telephone and CATV cables and associated pedestals.
 - Placement of utility-owned equipment associated with the installation underground utility-owned cables. Licence holder is not permitted to terminate cables in the associated equipment.
 - Installed cables cannot be energized by the licence holder and must be energized by the Utility.
- **Voice Data Video (M-V Licence)** – The licence holder is permitted to do electrical work involved in the installation, maintenance, upgrading, commissioning, troubleshooting and repair of:
 - Signaling systems which include nurse call and security systems.
 - Voice and data network systems which include systems such as telephone, data, network, public address, community antennae televisions (CATV) and networking only of the building automation in accordance with all related sections of the Canadian Electrical Code and the requirements of The Manitoba Building Code.
 - Terminate, maintain, upgrade, repair, commission, and trouble shoot in building automation systems.
 - Except for mechanical protection where required by code the installations of raceways are excluded from this licence.

- The installation to the secondary terminals of a Class II transformer, and the maintenance, testing and repair of alarm systems in the buildings.

Other Licences

ITS issues other trade licences that also enable the individual to conduct electrical work within their trade. Below specifies the scope of the electrical work the licence holder can conduct.

- **Licensed Gas Installer** – Gas Fitter licence holders with a “E” for electrical on the end of their licence number (e.g. 12345E) are permitted to do electrical work involved in their specified Class:
 - The maintenance and repair of gas equipment;
 - The connection to a junction box or disconnect switch located in the vicinity of gas burning equipment.
- **Licensed Oil Installer** – Oil Fitter licence holders with a “E” for electrical on the end of their licence number (e.g. 12345E) are permitted to do electrical work involved in:
 - The maintenance and repair of oil burning equipment;
 - The connection to a junction box or disconnect switch located in the vicinity of the oil burning equipment.
- **Power Engineers** – A Person who holds a First, Second or Third Class Power Engineer Certificate under the Manitoba Power Engineers Act may perform work limited to the repair and maintenance of existing electrical equipment in the premises where he or she is employed as an operating engineer.

Questions about this bulletin may be directed to the Inspection and Technical Services at (204) 945-3373 or by email at TechnicalServices@gov.mb.ca.