

# CONSTRUCTION ELECTRICIAN

(One Year (9 months) Post-Secondary Program)

Please read and think about the following information below carefully to decide whether this program is a good fit for you. This information may change and is simply intended to offer you a helpful perspective on what you will experience in this program.

- Orientation:** Typically, during the last week of August (**Required** for all students).
- Program Dates:** September through May (Includes two unpaid Practicum placements)
- Scheduled Breaks:** Last week of December and first week of January (two weeks); first week of March (one week). Check your registration for exact dates.
- Post-Graduation Work Permit length:** Up to 9 months.
- Schedule:** Monday to Friday as early as 8:00 a.m. and as late as 6:00 p.m.
- Campus Location:** 1035 1<sup>st</sup> Street North, Brandon, Manitoba. See campus information [here](#)

## What You'll Study:

Start with shop safety; students will learn the importance of job site safety which is a focus in the entire program and on every job site.

Learn Canadian Electrical Code and apply this learning to residential and for commercial/industrial construction.

Electrical theory and practical courses in DC and AC circuits and devices, three-phase and solid state systems and devices. These courses add a heavy mathematics component to the program.

Become familiar with residential and commercial blueprints for the electrical trade.

Hands-on training and practice in installation of wiring, using a variety of methods, for residential and commercial buildings.

Improve written and oral communication and customer service skills, including regulations in the trade and the use of relevant computer software.

All students will complete a "College Foundations" online course to develop the skills and attitudes of a successful Canadian student and employee.

Read more under "Overview" and "Courses and Costs" [here](#).

See PDF document on [this page](#).

## How You'll "Learn By Doing"

You'll apply your learning and skills with industry-relevant tools and a wide variety of equipment. You will practice installation and troubleshooting procedures.

Approximately 35% of class activity will be practical, "hands-on" learning and evaluation; 65% will be "lectures" and theory examinations.

You must complete two unpaid work experience Practicums with employers in the electrical field. One will be part-way through the program, and the other will be at end of program.

See video about the program here: <https://youtu.be/Jx9w019t5ug>

### What You'll Need to Do to Graduate

- **Attend** all classes and activities. **Arrive on time** every day. Participate fully and ask questions.
- Ask instructors or advisors for help when you need it, and ask for help early!
- **Purchase all required books and supplies**; most required during first or second week of program.
- Work co-operatively in teams and behave respectfully towards all students, staff and partners. **English only.**
- **No personal cell phone use** during class activity.
- All English skills (reading, writing, listening, speaking) are important. Evaluation can include tests, group projects, practical demonstrations of skills, and presentations. **Strong reading comprehension** will be especially important for interpreting and applying Canadian Electrical Code and related regulations.
- **Strong mathematics skills** will be necessary for success.
- **Manage physical demands:** Working outdoors in extreme warm, cold or rainy weather conditions; using ladders and working in high places; crawling into small places; good hand-eye coordination and ability to use tools; lifting equipment or heavy objects. Good vision will be important. The shop or work location may have high noise levels.
- **Maintain shop safety practices.**
- You will need a **co-op work permit** for Practicum; apply **early!** See [here](#).
- **Pass all courses with a C (60%).** Re-testing is generally not an option. If you fail a course, it will not be available again until the following year, and could prevent you from taking other courses in the program. This would result in an “unscheduled break” and/or “part-time” studies, which would make you ineligible for a post-graduation work permit.
- **Do your own work.** Cheating, not referencing sources of your ideas, or using other people’s work could result in failing grades/suspension. See Policy A25 from this Academic Policies [link](#).

### Required textbooks and supplies (NOT included in tuition):

- ✓ personal protective equipment (PPE) (steel toed boots, safety glasses, hearing protection) (approximately **\$200**, purchased outside the college, necessary in **first week** of program)
- ✓ required textbooks (approximately **\$450**; purchased from college bookstore)
- ✓ pens/paper/notebook and scientific calculator (approximately **\$70**, purchased outside the college)
- ✓ required tools (approximately **\$750**, purchased at “tool fair” during **second week** of program). Assiniboine will host a “Tool Fair” in the second week of the program; be ready to purchase your tools at this event (prices may be lower than if you buy them from another supplier).
- ✓ Access to a computer/laptop with camera, microphone and Microsoft Office software.

### How Assiniboine College Can Help You

- Trained instructors will share their knowledge and experience from the industry, and will give you frequent and specific feedback on your progress.
- Learning Commons staff available to assist with study skills, like test-taking and writing papers.
- Student advising staff can offer support for personal issues.
- A Regulated International Student Immigration Advisor can answer questions related to permits.
- Assiniboine will host a “Tool Fair” in the second week of the program; be ready to purchase your tools at this event (prices may be lower than if you buy them from another supplier).

### **Job Options for Graduates**

Graduates can find employment with electrical contractors, construction companies, maintenance departments of industrial companies, public utilities and wholesale suppliers. Some jobs will require working outside, sometimes in unpleasant weather, or in unheated buildings. Some jobs will require evening and weekend work and/or long hours of work, especially in the spring/summer/fall months.

Almost all jobs will require a **valid Manitoba driver's license**. See information [here](#) and [here](#).

**Possible** jobs on Manitoba In-Demand Occupations list: [72200-Electricians \(except industrial and power system\)](#); [72201-Industrial Electricians](#); [72203-Electrical power line and cable workers](#); [62100-Technical sales specialists-wholesale trade](#). However, note that jobs soon after graduation will generally be at an "entry level", often a lower level than described in the In-Demand Occupation links above.

### **Other Important Information**

This program has a **strict** attendance and punctuality policy.

All students **must wear personal protective equipment (PPE)** (see list above) as required by Manitoba Workplace Safety and Health Legislation. If a student has any doubt about wearing the required PPE they should contact the Chair of the program to discuss **before** choosing the program.

Completion of this program **with an average of 70% (B)** could qualify you for credit in Level 1 in-school technical training and 900 hours in the Construction, Industrial or Power Electrician trades with Apprenticeship Manitoba; all decisions will be Apprenticeship Manitoba's. See [here](#) for information about apprenticeship.

**"Co-op work permit"** will be required by Immigration, Refugees and Citizenship Canada before you start the practicum placement. Your letter of acceptance will allow you to apply. Apply for this **early**, as processing time is very long! See IRCC website [here](#).