

# Construction Electrician: Apprenticeship

Faculty of Trades and Technology	kwantlen.ca/trades
Electrical (Construction)	kwantlen.ca/trades/electrical
Implementation Date	01-Sep-2011
Start Date(s)	Varies
Admission Type	Fixed term
Enrolment Type	Limited enrolment
Program Type	Vocational
Credential Granted	No Credential
Offered At	Cloverdale
Format	Full-time
How to Apply	www.kwantlen.ca/admission

## DESCRIPTION

The Construction Electrician apprenticeship requires apprentices to complete four levels of in-school technical training each 10 weeks in length and 6000 work-based training hours, all designed to meet the competency standard and profile defined by industry.

Additional information is available from our program website at: [kwantlen.ca/trades/electrical](http://kwantlen.ca/trades/electrical)

## PROGRAM ADMISSION REQUIREMENTS

In addition to Kwantlen's General university admission requirements, the following program admission requirements apply:

- An ITA Individual ID number (ITA-ID) is required. If you do not have an ITA-ID, you will need to complete an apprenticeship registration form through the ITA ([www.itabc.ca](http://www.itabc.ca)) prior to admission (Level 1 through to 4).

**Note:** International student Application for Admission requires approval of the Dean.

## PROGRAM REQUIREMENTS

### Electrical Level 1 (AELC 1010)

- Electrical safety fundamentals
- DC circuits
- Electromagnetism & applications
- Meters & test equipment
- Electrical prints & drawings
- AC motor controls
- Electric code & wiring
- Industrial power electronics

### Electrical Level 2 (AELC 1020)

- AC fundamentals
- Meters & test equipment
- Single phase AC circuits
- Circuit protector devices

- Single phase transformers
- AC motor controls
- Lighting
- Industrial power electronics
- Electric codes & wiring

### Electrical Level 3 (AELC 1030)

- Three-phase Circuits
- Electronic Circuits
- Power Quality Analyzers
- Applying the CEC to Installations
- Installing Service Equipment
- Grounding and Bonding
- Distribution Centres
- Conductors and Cables
- Installing Devices
- Three-phase Transformers
- DC Motors and Generators
- AC Motors and Alternators
- Magnetic Motor Controls
- Electronic Motor Controls

### Electrical Level 4 (AELC 1040)

- Under development

## OTHER INFORMATION

### Special Equipment

Students will require appropriate safety wear in conformance with WorkSafeBC regulations. A list of required tools will be provided by Admissions prior to starting this program.

## CREDENTIAL AWARDED

Upon successful completion of an apprenticeship level, Kwantlen will report your technical training completion information to the Industry Training Authority (ITA) in order for the ITA to determine credit towards your designated apprenticeship.