

POWER LINE TECHNICIAN

Credential Issued:

ITA Certificate of Qualification (Power Line Technician)
Inter-Provincial Red Seal Endorsement (Power Line Technician)
(Persons completing a formal apprenticeship also receive a Certificate of Apprenticeship)

Occupational Description:

“Power Line Technician” means a person who installs, constructs, alters, repairs, maintains, tests, services and operates related overhead, underground and marine electrical transmission and distribution systems.

Program Duration & Structure:

The program will be delivered in a variety of formats combining in-school and work-based training, all designed to meet the competency standards and profile defined by the industry, and will generally take 3.5 years to complete. The program includes:

- In-school: 15 weeks* (approximately 5 weeks per level)
- Work-based: 5045 hours

*The in-school / technical training requirement is typically met through block release training delivered by an ITA approved training provider. It can also be met through approved alternative training models (e.g. distance education, part-time) and / or level challenge exam where these options are available.

Program Completion Requirements:

Completion of 5045 workplace hours:

- Sponsor attestation

Completion of technical training: (Requirement can be met through challenging a level exam where available.)

- Level 1 - practical assessments and written level examination
- Level 2 - practical assessments and written level examination
- Level 3 - practical assessments and written level examination

Inter-Provincial Red Seal Examination

Program Challenge Requirements:

- 7567 documented hours of directly related work experience required to challenge Inter-Provincial Red Seal examination.

Program Pre-requisites:

- Recommended Education: Grade 12 or equivalent including English 12, Mathematics 11 & Physics 11.

Assessment Methods:

- In-school assessments (practical and written exams)
- Work-based assessments (practical)
- Final Assessment (Inter-Provincial Red Seal written examination)

Linkages to Other Credentials:***Cross Program Credit***

- Holders of a BC Certificate of Qualification in Electrician may be eligible to receive practical experience credit and technical training credit.

Prior Learning Assessment:

n/a

Program Standards Documentation:

- National Occupational Analysis (2009) www.red-seal.ca
- Program Outline

Industry Program Standards Mechanism:

TBA

Program Providers:

Institution-based component of the program is delivered by public post-secondary institutions (see www.educationplanner.bc.ca/apprenticeship.cfm for a list of schools), private training institutions, and secondary schools that have been approved by ITA .

Technical Training Content:***Level 1***

Policies and Regulations
Tools and Instruments
Electrical Theory Part 1
Vehicle Proc. And Aerial Manlifts
Basic Rigging
Overhead Distribution
U/G Residential Distribution

Level 2

Safety Regs/P.S. Safety Protection
Electrical Theory Part 2
Single Phase Transformation/Metering
Rigging and Live Line – Distribution
U/G Residential Distribution
Grounding – Overhead

Level 3

Electrical Theory
Equipment – Three Phase Transformation
Rigging & Transformation (Liveline)
(H) Distribution (Three Phase Metering)
Distribution: Regulator, Capacitor, Reclose

IP Examination Competencies:

1. Occupational Skills 21%
2. Structures 14%
3. Conductor Systems 20%
4. Auxiliary Equipment 21%
5. Operation, Maintenance and Repair 24%

Approved: March 2002 (ITAC)

Updated: January 2006 (ITA)