

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: 480 hours (16 weeks* over three levels)
- Work-based: 6,350 hours, including a minimum of 500 hours with a crew doing “live line” work.

*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 a minimum of 6,350 workplace hours, including a minimum 500 hours with a crew doing “live line” work:

- Recommendation for Certification signed by the Sponsor and certified Power Line Technician

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

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

Inter-Provincial Red Seal Examination

Program Challenge Requirements:

- A minimum of 9,525 documented hours of work experience as a Power Line Technician is required to challenge Inter-Provincial Red Seal examination. This must include a minimum of 500 hours with a crew doing “live line” work.

Program Pre-requisites:

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

Assessment Methods:

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

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

- n/a

Prior Learning Assessment: n/a**Program Standards Documentation:**

- National Occupational Analysis – Power Line Technician (2009) www.red-seal.ca
- Power Line Technician Program Outline

Industry Program Standards Mechanism:Resource Industry Training Organization (RTO) info@rtobc.com**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**

Safety and Safe Work Practices
Climbing
Policy and Regulations
Tools and Instruments
Electrical Theory
Rigging
Overhead Distribution
Underground Distribution
Communication in the Workplace

Level 2

Tools and Instruments
Electrical Theory
Equipment
Rigging
Overhead Distribution
Underground Distribution
Communication in the Workplace

Level 3

Electrical Theory
Equipment
Rigging
Overhead Distribution
Underground Distribution
Transmission
Communication in the Workplace

IP Examination Competencies: (2009)

- A. Occupational Skills 21%
- B. Structures 14%
- C. Conductor Systems 20%
- D. Auxiliary Equipment 21%
- E. Operation, Maintenance and Repair 24%

Approved: March 2002 (ITAC)

Updated: January 2006

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