

**BOILERMAKER (CONSTRUCTION BOILERMAKER)**

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**Credential Issued:**

ITA Certificate of Qualification (Construction Boilermaker)

Inter-Provincial Red Seal Endorsement (Boilermaker)

(Persons completing a formal apprenticeship also receive a Certificate of Apprenticeship)

**Occupational Description:**

"Construction Boilermaker" means a person who does the laying out, burning, shearing, sawing, cutting, punching, drilling, reaming, boring, tapping, riveting, caulking, bolting, connecting, fastening, welding, gouging, shaping, fitting, handling and rigging of structural members, plates and tubes in the fabrication, erection, repair and maintenance of all manner of dust, air gas, steam, oil, water or liquid tight containers, structures and equipment.

**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 years to complete. The program includes:

- In-school: 10 weeks\* (approximately 5 weeks per level)
- Work-based: 5,700 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 mandatory 6 month pre-apprenticeship course

Completion of 5,700 workplace hours:

- Sponsor attestation

Completion of technical training:

- Boilermaker Foundation Program
- Level 2 - practical assessments and written level examination
- Level 3 - practical assessments and written level examination

Inter-Provincial Red Seal Examination

**Program Challenge Requirements:**

- 8,550 documented hours of directly related work experience required to challenge Inter-Provincial Red Seal examination.

**Program Pre-requisites:**

- Recommended Education: Grade 10 or equivalent including English 10, Mathematics 10 and Science 10. Preferred: Grade 12

**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 Steel Fabricator and Ironworker may be eligible to receive practical experience credit and technical training credit.

**Prior Learning Assessment:**

n/a

**Program Standards Documentation:**

- National Occupational Analysis (2008) [www.red-seal.ca](http://www.red-seal.ca)
- Program Outline

**Industry Program Standards Mechanism:**

Construction Industry Training Organization (CITO)  
[info@bccito.ca](mailto:info@bccito.ca)

**Program Providers:**

Institution-based component of the program is delivered by public post-secondary institutions (see [www.educationplanner.bc.ca/apprenticeship.cfm](http://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 2**

Blueprint Reading and Material List  
Plate Development  
Welding: Review, Horizontal/Vertical Up Rigging  
Tube Expansion

**Level 3**

Blueprint Reading and Pipe Development  
Nozzle Layout: Pattern, Cut Out, Etc.  
Rigging: Review  
Transit and Level  
Fiberglass Fitting  
Sequential Boiler Erection

**IP Examination Competencies: NOA 2008**

1. Occupational Skills 21%
2. Rigging and Hoisting 28%
3. New Construction 24%
4. Upgrading, Maintenance and Repair 27%

Approved: March 2002 (ITAC)

Updated: January 2006 (ITA)