

Welder Level B

Credential Issued:

ITA Certificate of Qualification (Welder Level B)
Inter-Provincial Red Seal Endorsement (Welder) (optional)
(Persons completing a formal apprenticeship also receive a Certificate of Apprenticeship)

Occupational Description:

“Welder Level B” means a person who has training in and is capable of welding ferrous and non-ferrous metals in all positions, on both plate and / or pipe, using SMAW, GTAW, and FCAW processes. These welders qualify to test for Portable Pressure Welding Procedure (PWP) tests in British Columbia, and such other work as is usually done by a Level B Welder.

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 1 year to complete for Welder Level B.

The Modular format is designed as a competency-based program to meet the standards and profile defined by industry (see Technical Training Content – Modular Training)

- In-school: 4 months technical credit
- Work-based: 8 months practical credit

The Apprenticeship format where trainees will complete level 3 of technical and work-based training:

- In-school: 6 weeks (180 hours)
- Work-based: 1,620 hours

Program Completion Requirements:

Modular Format:

Completion of all Level B modules which provide credit towards:

- In-school: 4 months technical credit
- Work-based: 8 months practical credit
- Sponsor attestation / Logbook

Apprenticeship Format:

Completion of 1,620 workplace hours:

- Sponsor attestation / Logbook

Completion of technical training:

- Level 3 – practical assessments and written examination

BC Certificate of Qualification examination

Inter-Provincial Red Seal examination (optional)

Program Challenge Requirements:

BC Certificate of Qualification

- Must hold a Welder Level C BC Certificate of Qualification before challenging the Welder B BC Certificate of Qualification written examination. Applicants for challenge tests must complete and pass both written and practical examinations.

Inter-Provincial Red Seal examination

- Successful challenge of the Welder B BC Certificate of Qualification written examination is required before challenging the Inter-Provincial Red Seal written examination.
- 5,400 documented hours of directly related work experience required to challenge Inter-Provincial Red Seal Examination. Applicants for challenge tests must complete and pass both written and practical examinations.

Program Pre-requisites:

- Recommended Education: Grade 10 or equivalent. Grade 12 preferred.
- Welder C

Assessment Methods:

- In-school assessments (practical and written exams)
- Work-based assessments (practical)
- BC Certificate of examination
- Inter- Provincial Red Seal examination (optional)

Linkages to Other Credentials:

Cross Program Credit

Holders of a military certificate in Material Technician, MT #441, and who are QL 5 or higher are eligible to challenge the Welder Inter-Provincial Red Seal examination.

Prior Learning Assessment:

n/a

Program Standards Documentation:

- National Occupational Analysis (2004) www.red-seal.ca
- Program Outline
- Logbook

Industry Program Standards Mechanism:

Resource Training Organization (RTO) info@rtobc.com

Program Providers:

Institution-based component of the program is delivered by public post-secondary institutions, private training institutions, and secondary schools that have been approved by ITA.

Technical Training Content:

MODULAR FORMAT:

Module P7 - Shielded Metal Arc Welding (SMAW II)
Module P8 - Gas Metal Arc Welding (GMAW II)
Module P9 - Flux Core Arc Welding (FCAW II)
Module P10 - Gas Tungsten Arc Welding (GTAW I)
Module RK4 - Quality Control and Inspection
Module RK5 - Welding Codes, Standards & Specs
Module RK6 - Blueprint Reading II
Module RK7 – Welding Metallurgy II

APPRENTICESHIP FORMAT:

Level 3

P7 - Shielded Metal Arc Welding
P10 - Gas Tungsten Arc Welding (GTAW I)
RK4 - Quality Control and Inspection
RK5 - Welding Code Standards & Specifications
RK6 - Blueprint Reading II
RK7 - Metallurgy II

IP Examination Competencies

- Occupational Skills 21%
- Quality Control 12%
- Cutting Processes 17%
- Gouging Processes 10%
- Welding Processes 40%

Approved: March 2002 (ITAC)

Updated: December 2006 (ITA)
January 2009