

**WELDER Level C**

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**Credential Issued:**

ITA Certificate of Qualification (Welder Level C)

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

**Occupational Description:**

"Welder Level C" means a person who has training in and is capable of welding various steel and aluminum parts using the SMAW, GMAW and FCAW processes, in the fabrication, construction, erection and repair of components or structures, in plate and structural applications.

**Program Duration & Structure:**

The program will be delivered as a competency based program. Persons will successfully complete all modules as outlined in the Technical Training and will be required to successfully pass both the final written and practical examination. The person will also be required to complete 1000 hours in the trade as a registered apprentice before final Certification is granted.

The Welder Level C program structure is designed as a competency-based program to meet the standards and profile defined by Industry. The program includes:

- In-school: competency based\*
- Work-based: 1000 hrs

\*The in-school technical training requirement is delivered by an ITA approved training provider and can also be met through approved alternative training models (e.g. distance education, part-time, self paced) where these options are available.

**Program Completion Requirements:**

Completion of 1000 workplace hours

- Log Book
- Sponsor attestation

Completion of Technical Training:

- Successful completion of all Welder C modular technical training (practical and written exams)

BC Certificate of Qualification written examination

**Program Challenge Requirements:**

- Documented evidence of 2500 hours of directly related work experience required.
- BC Certificate of Qualification written examination
- Successful completion of ITA practical examination.\*

\*Successful challenge of the BC Certificate of Qualification written examination is required before attempting the practical examination.

**Program Pre-requisites:**

- Recommended Education: Grade 10 or equivalent including English 10, Math 10, and Science 10. Grade 12 preferred.

**Assessment Methods:**

- In-school assessment of modular technical training (practical and written exams)
- BC Certificate of Qualification written examination
- Practical challenge examination
- Log Book

**Linkages to Other Credentials:**

Welder Level C is a pre-requisite for Welder Level B

**Prior Learning Assessment:**

n/a

**Program Standards Documentation:**

- National Occupational Analysis (2004) [www.red-seal.ca](http://www.red-seal.ca)
- Program Outline
- Log Book

**Industry Program Standards Mechanism:**

Resource Training Organization (RTO) [info@rtobc.ca](mailto:info@rtobc.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:**

- A - (P1) Apply Occupational Skills
- B - (P2) Oxy-Fuel Cutting Processes (OFC)
- C - (P3) Fusion and Braze Welding using Oxy-Fuel Processes (OFW)
- D - (P4) Shielded Metal Arc Welding (SMAW)
- E - (P5) Electric Arc Cutting Gouging and Related Processes (AAC) (PAC) (SMAC)
- F - (P6) Semi-Automatic Welding (GMAW) (GMAW-P) (FCAW) (GMAW/MC\*)
- G - (RK3) Basic Metallurgy Relating to Production, Properties and Weldability
- I - (RK1) Material Handling and Rigging Procedures
- J - (RK2) Read Welding Drawings
- K - (RK2) Layout and Fabricate Components
- N - (P6) Performs Submerged Arc Welding Process (SAW)

Note: There is no equivalency for this trade

Approved: March 2002 (ITAC)  
Updated: February 2008 (ITA)