

WELDER Level C

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 in the following structures and will take 1 year to complete.

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: 7 months technical credit
- Work-based: 5 months practical credit

The Apprenticeship format where trainees will complete levels 1 and 2 of technical training.

- In-school: 360 hours
- Work-based: 1,440 hours

Program Completion Requirements:

Modular Format:

Completion of all Level C modules which provide credit towards:

- In-school: 7 months technical credit
- Work-based: 5 months practical credit
- Sponsor attestation / Logbook

Apprenticeship Format:

Completion of 1,440 workplace hours:

- Sponsor attestation / Logbook

Completion of 360 hours on in-school technical training:

- Level 1 - 6 weeks (180 hrs) practical assessments and written level examination
- Level 2 - 6 weeks (180 hrs) practical assessments and written level examination

BC Certificate of Qualification written examination

Program Challenge Requirements:

- 2,700 documented hours of directly related work experience required to challenge the BC Certificate of Qualification written examination. Applicants for challenge tests must complete and pass both written and practical examinations.

Program Pre-requisites:

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

Assessment Methods:

- In-school assessments (practical and written exams)
- Work-based assessments (practical)
- Final Assessment BC Certificate of Qualification written exam

Linkages to Other Credentials:

Completion of Welder C is a pre-requisite for entry into Welder B

Prior Learning Assessment:

n/a

Program Standards Documentation:

- Program Outline
- Logbook

Industry Program Standards Mechanism:

Resource Training Organization (RTO) 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 for a list of schools), private training institutions, and secondary schools that have been approved by ITA.

Technical Training Content:**MODULAR FORMAT:**

Module P1 - Introduction and Program Orientation
Module P2 - Oxy-Fuel Cutting
Module P3 - Gas Welding & Braze Welding
Module P4 - Shielded Metal Arc Welding (SMAW I)
Module P5 - Air Carbon Arc Gouging
Module P6 – Gas Metal Arc Welding (GMAW I) and Flux Cored Arc Welding (FCAW I)
Module RK1 – Material Handling
Module RK2A – Blueprint Reading I
Module RK2B – Mathematics
Module RK3 – Welding Metallurgy I

APPRENTICESHIP FORMAT:**Level 1**

Module P1 – Introduction & Program Orientation
Module P2 Part 1 - Oxy-Fuel Cutting
Module P3 Part 1 - Gas Welding & Braze Welding
Module P4 Part 1 - Shielded Metal Arc Welding (SMAW I)
Module P5 - Air Carbon Arc Gouging
Module P6 Part 1 Gas Metal Arc Welding (GMAW I) and Flux Cored Arc Welding (FCAW I)

Level 2

Module P3 Part 2 - Gas Welding & Braze Welding
Module P4 Part 2 - Shielded Metal Arc Welding (SMAW I)
Module P6 Part 2 – Gas Metal Arc Welding (GMAW I) and Flux Cored Arc Welding (FCAW I)
Module RK1 - Material Handling
Module RK2A - Blueprint Reading I
Module RK2B - Mathematics
Module RK3 - Welding Metallurgy I

Approved: March 2002 (ITAC)

Updated: Dec 2006 (ITA)