

Title: Aluminum Alloy Welding GTAW and GMAW

Code: 4700

Credits: 42

Duration: 630 hours

Training sector: Metallurgical Technology (16)

Certification of studies: Skills Training Certificate (STC) (awarded exclusively by the school service centres and the school boards)

Authorized in: 2003

Mandated school service centre or school board: des Rives-du-Saguenay

Participating school service centres or school boards: du Chemin-du-Roy, des Phares, du Fer, de Montréal

Occupation: Welder

Program of study objectives: Acquire competencies required to weld alloys using the GTAW, GMAW, GTAW-P and GMAW-P processes.

Conditions of admission:

A person who meets the following conditions is eligible for admission to a program of study leading to an STC:

- 1 Has obtained at least Secondary III credits or the equivalent in the language of instruction, second language and mathematics;
 - or Has obtained an Attestation of Equivalence of Secondary Studies (AESS);
 - or Has successfully completed the General Development Test (GDT) with or without specific prerequisites.
- 2 Has interrupted their full-time studies for at least 12 months;
 - or Is 18 years old when entering training;
 - or Has obtained a Secondary School Diploma (SSD) or a Diploma of Vocational Studies (DVS) or their equivalent;
 - or Meets the eligibility conditions of Emploi-Québec's workforce training measure.

PROGRAM OF STUDY CONTENT

STC Code	Statement of the Competency	Hours
STC 700-011	Determine their suitability for the trade and the training process	15
STC 700-022	Apply occupational health and safety rules	30
STC 700-033	Apply welding techniques using shielding gas (GTAW, GMAW)	45
STC 700-043	Prepare and assemble aluminum alloy parts	45
STC 700-052	Control the quality of welded aluminum alloy assemblies	30
STC 700-062	Interpret welding procedures and symbols	30
STC 700-075	Weld aluminum alloys using the GTAW process	75
STC 700-084	Weld aluminum alloys using the GTAW-P process	60
STC 700-093	Apply metallurgical principles to aluminum alloy welding	45
STC 700-102	Plasma cut aluminum alloy parts	30
STC 700-116	Weld aluminum alloys using the GMAW process	90
STC 700-123	Weld aluminum alloys using the GMAW-P process	45
STC 700-131	Use job search techniques	15
STC 700-145	Enter the work force	75

Recognition of acquired competencies is possible for candidates enrolled in the *Soudage-montage* DVS program of study.

Documentation available upon request

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| <input type="checkbox"/> Work Situation or Profession Analysis Report
(Rapport de l'AST ou de l'AP) | <input checked="" type="checkbox"/> Program of Study
(Programme d'études) | <input type="checkbox"/> RAC Tools
(Instrumentation RAC) |
| <input type="checkbox"/> Proposed Training Plan
(Projet de formation) | <input checked="" type="checkbox"/> Organizational Guide
(Guide d'organisation) | |
| <input checked="" type="checkbox"/> Harmonization Table
(Tableau d'harmonisation) | <input type="checkbox"/> Evaluation Framework
(Cadre d'évaluation) | |

Updated 2021

