

## 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 educational organizations)

**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.

This program is accessible via the [TCST-STC bridge](#).

## PROGRAM OF STUDY CONTENT

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

Recognition of acquired competencies is possible for candidates enrolled in the *Welding and Fitting* 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)              |  |