

Title: Semi-automatic Welding GMAW and FCAW

Code: 4750

Credits: 44

Duration: 660 hours

Training sector: Metallurgical Technology (16)

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

Authorized in: 2021

Mandated school service centres or school boards: de la Beauce-Etchemin, des Navigateurs

Participating school service centres or school boards: N/A

Occupation: Welding Machine Operator

Program of study objectives: Train welders to work with semi-automatic welding machines on steel and stainless steel. The welding techniques covered in this program of study are mainly GMAW with FCAW as a supplementary training. At the end of this training, the person will be able to work in various industries specializing in welding.

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 750-012	Determine their suitability for the trade and training process	30
STC 750-022	Prevent health, safety and environmental hazards	30
STC 750-032	Perform welding calculations	30
STC 750-042	Operate lifting and handling equipment	30
STC 750-053	Perform thermal cutting of metal parts	45
STC 750-066	Interpret simple assembly plans and draw sketches	90
STC 750-077	Weld steel and stainless steel parts using the GMAW process in the flat and horizontal positions	105
STC 750-082	Establish welding and cutting procedures	30
STC 750-096	Weld steel parts using the FCAW process in the flat and horizontal positions	90
STC 750-105	Produce simple assemblies	75
STC 750-111	Prepare for their career path	15
STC 750-126	Enter the workforce	90

Recognition of acquired competencies is possible for candidates enrolled in the *Welding and Fitting* or *Soudage-assemblage* DVS program of study.

Documentation available upon request

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| <input checked="" 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 type="checkbox"/> Organizational Guide (Guide d'organisation) | |
| <input checked="" type="checkbox"/> Harmonization Table (Tableau d'harmonisation) | <input checked="" type="checkbox"/> Evaluation Framework (Cadre d'évaluation) | |

Updated 2021

