

## Title: Numerical Control Machine Tool Operation

**Code:** 4714

**Credits:** 43

**Duration:** 645 hours

**Training sector:** Mechanical Manufacturing (11)

**Certification of studies:** Skills Training Certificate (STC) (awarded exclusively by recognized educational organizations)

**Authorized in:** 2005

**Mandated school service centre or school board:** de Montréal

**Participating school service centres or school boards:** des Trois-Lacs, de la Pointe-de-l'Île, des Appalaches, des Mille-Îles, Eastern Townships

**Occupation:** Computer numerical control (CNC) machinist

**Program of study objectives:** To prepare students to practise the trade of computer numerical control (CNC) machinist in various types of machine shops and manufacturing companies. The main duties of CNC machinists are to operate numerical control milling machines, machining centres and lathes; in addition, they must correctly interpret drawings, process sheets and operating procedures, record measurements, and perform inspections and finishing operations on workpieces.

### Conditions of admission:

To be eligible for admission to the *Numerical Control Machine Tool Operation* program of study, candidates must satisfy the following requirements:

- 1 Have obtained at least Secondary III credits or the equivalent in the language of instruction, second language and mathematics
  - or Have obtained an Attestation of Equivalence of Secondary Studies (AESS)
  - or Have successfully completed the General Development Test (GDT) with or without specific prerequisites
- 2 Have interrupted their full-time studies for at least 12 months
  - or Are 18 years old when entering training
  - or Have obtained a Secondary School Diploma (SSD) or a Diploma of Vocational Studies (DVS) or their equivalent
  - or Meet 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 714-011	Determine their suitability for the occupation and the training process	15
AEP 714-025	Interpret drawings and process sheets	75
AEP 714-031	Prevent occupational health and safety hazards	15
AEP 714-044	Record and interpret measurements	60
872-066	Carry out shop work	90
AEP 714-063	Interpret procedures for operating numerical control machine tools	45
AEP 714-078	Operate a numerical control lathe	120
AEP 714-088	Operate a numerical control machining centre	120
AEP 714-097	Enter the workforce	105

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

### Documentation available upon request

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