

# Welding Techniques

<b>Program Locations:</b>	Peterborough
<b>Program Code:</b>	WTQ
<b>Co-ordinator:</b>	Valentin Bolsterli
<b>Credential:</b>	Ontario College Certificate
<b>Start Dates:</b>	September 04, 2012 - January 07, 2013
<b>Tuition Fees:</b>	\$1,928.45 per semester. Tuition and fees subject to change.



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**Our Welding Techniques program offers the opportunity to gain hands-on experience in a variety of welding processes, in preparation for employment in this high-demand field.**

## Program Highlights

The two-semester Welding Techniques program will provide graduates with employable skills to assist them in obtaining well-paying jobs in the welding trade. Join the booming trades and construction industry where new workers with welding skills are in demand. This program will introduce you to numerous welding processes and you will gain extensive hands-on experience on the four most demanding processes used in industry:

- SMAW (shielded metal arc welding)
- GMAW (gas metal arc welding)
- FCAW (flux core arc welding)
- GTAW (gas tungsten arc welding)

Basic blueprint reading, trade math, weld symbols, metallurgy, oxy-fuel and plasma cutting will also be covered. Upon successful completion of the Welding Techniques program, you will have the opportunity to do a practical test plate in the flat position with the SMAW which is witnessed by a CWB (Canadian Welding Bureau) test representative. If successful, you will be issued a Seeking Employment Certificate.

## Career Opportunities

The welding trade offers numerous opportunities across several employment sectors and demands an incredible variety of welding skills. Examples include:

- fine precision welding of light exotic metals used in electronics, tooling, nuclear and aerospace
- welding for manufacturing and custom consumer products
- heavy structural welding of materials used in construction, building and bridge erection
- pipelines, ship and underwater welding

With high demand for skilled welders, your options are diverse and employment prospects are strong.

## Minimum Admission Requirements

OSSD with the majority of credits at the Workplace (E) level, including English.

## Mature Students

If you are 19 years of age or older before classes start, and you do not possess an OSSD, you can write the Canadian Adult Achievement Test to assess your eligibility for admission.

## Additional Costs

Books approximately \$250; tools approximately \$160 (plus safety shoes and glasses).

## Curriculum for Welding Techniques

### Semester 1

Code	Course Name	Hours
CNST 110	Blueprint Reading for Welders	30
CNST 152	Health and Safety Applied Applications	28
CNST 151	Health and Safety Theory	21
MATH 88	Trade Calculations and Layout	45
MECH 179	Welding Fundamentals	45
MECH 180	Welding Processes and Practices I	135
GNEC 101	Preparing for a Career in the Skilled Trades	45

### Semester 2

Code	Course Name	Hours
COMP 370	Computer Skills in Trades	30
MECH 182	Metallurgy, Electrodes and Consumables	30
MECH 181	Welding Faults and Inspection Techniques	30
MECH 183	Welding Processes and Practice II	195
GNEC 33	Professional Portfolio Development	45

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