



**CREDENTIAL**

Ontario College Certificate

**PROGRAM CODE**

Fall: 0375

**AREA OF INTEREST**

Skilled Trades

**LOCATION**

Thunder Bay

**DURATION**

32-week

## Overview

### Forge Your Own Future

Advance your career with Confederation College's Welding Techniques certificate program. This comprehensive program covers all aspects of conventional and new welding techniques, providing you with hands-on experience and practical skills. Learn to maintain and repair various welding systems and prepare for your four-position Canadian Welding Bureau (CWB) certification. With state-of-the-art welding power sources and shop instruction, you'll gain the knowledge needed to excel in the welding industry. Courses include basic arc welding, blueprint reading, pipe-to-plate, T-joints, basic metallurgy, pressure plate, and advanced welding. This program equips you with the foundational skills to work in almost any industry, anywhere.



### Top Highlights

- **Hands-On Training:** Get practical training with our conventional and modern welding equipment.
- **CWB Certification Preparation:** The program prepares you for your CWB certification, the standard for employment for most shops.
- **Personalized Instruction:** Benefit from plenty of one-on-one, personalized instruction.
- **Industry Standards:** The program meets industrial standards, principles, practices, and trade disciplines of today's job market.



### Employment Opportunities

Graduates of the Welding Techniques program go on to entry-level roles in various positions and industries including:

Construction Trades, Ironworker Welder, Boilermaker Welder, Millwright Welder, Carpenter Welder, Maintenance Welder, Heavy Equipment Repair, Forestry Welder, Transportation Welder, Sheet Metal Welder, Mining Welder

This in-demand skill is applicable in many different industries and may be combined with other Skilled Trades to expand your skill set and ultimately give you a leg up at finding a good, well-paying job.



### Ideal Candidate

Hands-on Learner, Detail-oriented, Problem Solver, Physically Active, Team Player



### Blair Bamford Program Coordinator

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[confederationcollege.ca/welding](http://confederationcollege.ca/welding)

*This is* **LEARNING**



# Welding Techniques

## Admission Requirements

- Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels with Grade 12 English (C/U) Level.
- or successful completion of the Mature Student Assessment.
- or successful completion of the General Education Development Test (GED).
- or appropriate credits from the Academic and Career Entrance program (ACE).

## Alternative Pathways

Students who do not meet the entrance requirements are encouraged to apply for the Pre Technology-Trades program to facilitate success in their technology path.

## First Semester

CS 030 Communications for the Trades  
WC 122 Basic Arc Welding  
WC 127 Blueprint Reading  
WC 128 Pipe to Plate  
WC 141 Welding Introduction  
WC 142 Oxy Fuel Welding and Cutting  
WC 143 T-Joints (Fillet Welds)

## Second Semester

WC 201 Advanced Welding  
WC 212 Pressure Plate  
WC 217 Basic Metallurgy  
WC 226 CWB Specifications  
WC 243 Blueprint Reading II



**Have questions? Want to apply?**  
Contact [recruitment@confederationcollege.ca](mailto:recruitment@confederationcollege.ca)

