



CREDENTIAL

Ontario College Certificate

PROGRAM CODE

Fall: 0394

AREA OF INTEREST

Skilled Trades

LOCATION

Thunder Bay

DURATION

34-week

Overview

Find Out Where Your Skills Lie

Confederation College's Mechanical Techniques certificate program offers a hands-on exploration of various trades, allowing you to discover your aptitude and passion for different skilled trades. It's the perfect program if you love the idea of learning a trade, but aren't sure which profession is right for you. This Ontario College Certificate program combines in-class learning with practical demonstrations and hands-on instruction, empowering you to build, design, and create assigned projects right from the first semester. With a focus on mechanical practices, machine shops, welding practices, engineering graphics, and industrial design, you will quickly identify your preferred area of skilled trades.



Top Highlights

- **Seamless Transition:** Courses align with the first year of the Mechanical Engineering Technician program, enabling a smooth transfer to Year 2 of that program upon completion of this certificate.
- **Multi-Skills Emphasis:** The program emphasizes multi-skills learning, meeting the demands of employers seeking versatile professionals.
- **Practical Learning:** A blend of classroom instruction and hands-on learning enhances your skills and prepares you for real-world applications.



Employment Opportunities

Graduates of the Mechanical Techniques program embark on entry-level positions in various trades, including: Industrial Mechanic (Millwright), Machinist, Pipe Fitting, Plumbing



Ideal Candidate

- Mechanically Inclined, Problem Solver, Team Player, Physically Fit, Detail-Oriented



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Mechanical 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).

Required Courses

Grade 11 MCF3M Functions and Applications or MCR3U Functions or Grade 12 MAP4C Foundations for College Math or MCT4C Mathematics for College Technology or University Preparation.

Alternative Pathways

Applicants who do not possess the Math requirement might consider our Pre-Technology-Trades program, which will provide the necessary preparation to enter a technology program.

First Semester

CS 050 College Writing
MA 115 Applied Math for Technology 1
MC 165 Microsoft Office
MX 111 Engineering Graphics
MX 121 Mechanical Practices
MX 131 Machine Shop I
MX 141 Welding Practices I
SC 110 Pre-Tech Physics I

Second Semester

GE General Elective
MA 215 Applied Math for Technology II
MX 231 Machine Shop II
MX 241 Welding Practices II
MX 261 Power Transmission I
MX 271 Industrial Design I
MX 460 Introduction to Electricity
SC 210 Pre-Tech Physics II

Note: to continue into the Mechanical Engineering Technician program from the Mechanical Techniques program, students must take MA 231 in the spring semester, or the online equivalent OL 895.



Have questions? Want to apply?
Contact recruitment@confederationcollege.ca

