



**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



### Richard Kukkee Program Coordinator

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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](mailto:recruitment@confederationcollege.ca)

