



### Overview

Like working with your hands and love the idea of learning a trade, but not quite sure where to start? Confederation College's Mechanical Techniques certificate program lets you try different trades to see what you might like best.

Mechanical Techniques Ontario College Certificate program combines in-class learning with practical demonstrations and hands-on instruction. You start building in the first semester, taking your new skills and using them to design and create assigned projects. Topics include mechanical practices, machine shop, welding practices, engineering graphics and industrial design. Not only will you start developing skills in all areas of trades, you'll quickly learn what area of skilled trades appeals to you most.



### Top Highlights

- Course follows the first year of the Mechanical Engineering Technician program, so you can transfer into Year 2 of that program after completion of this certificate
- Program stresses multi-skills learning, which many employers are looking for today
- Combines class work with hands-on learning to improve your skills



### Learner Testimonial

From the Mechanical Techniques program, I was able to enter the mechanical field. The training and instruction I received provided me with strong skills and knowledge to enter the skilled workforce. Successful completion of this program, helped me to acquire a position with Fairbairn's Machine Shop.

Rami P. / Alumnus / 2010 / Fabrication Layout / C.N.C Operator and Machining

# 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.

## Employment Opportunities

Graduates of the Mechanical Techniques program go on to entry-level positions in various trades including Millwright, Industrial Mechanic, Machinist, pipe fitting, plumbing, Welder/Fitter and Sheet Metal Worker

## First Semester

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

## Second Semester

SC 210 Pre-Technology Physics II  
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  
GE General Elective

*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.*

## For information, please contact:

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