



CREDENTIAL
Ontario College
Certificate

PROGRAM CODE
Fall: O372

AREA OF INTEREST
Skilled Trades

LOCATION
Thunder Bay

DURATION
34-week

Overview

Love heavy machinery? Embrace a new challenge and learn how to repair and maintain them!

Confederation College's Motive Power Techniques – Heavy Equipment certificate program covers all aspects of the heavy-duty service industry. You'll get hands-on experience maintaining and repairing various heavy-duty systems such as gear trains, electrical/electronics, diesel fuel systems, air brakes, hydraulics, steering and suspensions on heavy-duty trucks, off-road construction and forestry equipment such as front-end loaders, bulldozers, excavators, skidders, trucks and tractors. You'll also benefit from in-class learning modules that will give you the mechanical knowledge and workplace skills you need to help you find and keep a job in today's modern workplace.

Although focused on heavy equipment, this program prepares you for a diverse number of career opportunities in a variety of mechanical fields.



Top Highlights

- Program includes a two-week field placement so you get on-the-job training in a real shop
- Courses follow industry standards and practices so you are ready for the job market
- Learn today's technologies – and how to adapt to tomorrow's
- Graduates can also go on to an apprenticeship program



Experiential Learning

Field Placement



Employment Opportunities

Graduates of the Motive Power Techniques – Heavy Equipment program will have the skills to get a job as a Heavy Equipment, Truck/Coach, Fork-Lift or Farm Equipment Technician in a wide variety of industries including forestry, construction, mining, agriculture, transportation, government, automotive dealerships, service stations, specialty shops and virtually any business or industry that employs mechanics.



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confederationcollege.ca/heavyequip

This is **LEARNING**



Motive Power Techniques - Heavy Equipment

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).

Other Courses Required

- 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

If you do not meet the entrance requirements, we encourage you to apply for the Pre-Technology-Trades program to facilitate success in your technology path.

First Semester

CS 030 Communications for the Trades
HC 121 Applied Work Pract & Procedure
HC 122 Engines & Ancillary Systems
HC 123 Electricity and Electronics I

Second Semester

HC 240 Fluid Power Systems
HC 241 Electrical & Electronics II
HC 242 Heavy Duty Fuel Systems
HC 243 Heavy Duty Drive Train Systems
HC 244 Steering, Suspension & Brakes
HC 245 Field Placement

Second semester is 16 weeks of academic study and 2 weeks of field placement.

Please note that the core subjects run for 4 to 6 week modules.



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

