



CREDENTIAL	PROGRAM CODE	AREA OF INTEREST	LOCATION	DURATION
Ontario College Certificate	Fall: O372	Skilled Trades	Thunder Bay	34-week

Overview

Think Bigger

Pursue a career in heavy equipment maintenance and repair with Confederation College's Motive Power Techniques – Heavy Equipment certificate program. This comprehensive program covers all aspects of the heavy-duty service industry, providing hands-on experience in maintaining and repairing heavy-duty systems such as gear trains, electrical/electronics, diesel fuel systems, air brakes, hydraulics, steering, and suspensions. You'll work on heavy-duty trucks, off-road construction, and forestry equipment including front-end loaders, bulldozers, excavators, skidders, trucks, and tractors. In addition to practical training, the program comprises in-class learning modules to equip you with the mechanical knowledge and workplace skills needed to excel in today's job market. While focused on heavy equipment, this program prepares you for diverse career opportunities in various 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



Employment Opportunities

Graduates of the Motive Power Techniques – Heavy Equipment program will have the skills to secure employment in a variety of industries, including:

Heavy Equipment Technician, Truck/Coach Technician, Fork-Lift Technician, Farm Equipment Technician, Heavy Equipment Parts and Sales, . These opportunities span diverse sectors such as forestry, construction, mining, agriculture, transportation, government, automotive dealerships, service stations, specialty shops, and virtually any business or industry employing heavy equipment mechanics.



Ideal Candidate

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



Experiential Learning

Field Placement



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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 42
HC 116 Applied Work Practices I
HC 117 Engine Systems
HC 118 Welding Fundamentals
HC 123 Electricity and Electronics 1

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

Second Semester

HC 222 Heavy Duty Fuel Systems
HC 223 Heavy Duty Drivetrain Systems
HC 240 Hydraulic Systems
HC 241 Electrical & Electronics 2
HC 244 Steering, Suspension, Brakes
HC 245 Field Placement

Second semester is 14 weeks of academic study and 2 weeks of field placement.



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

