

**NORTHERN LIGHTS COLLEGE
REGISTRAR'S OFFICE
PROGRAM INFORMATION AND COMPLETION GUIDE**

Program Name: Heavy Mechanical Trades Foundation
Credential/Certification: Certificate in Heavy Mechanical Trades Foundation
Date Submitted: June 2024
Effective Date: September 2024

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Program Description: This program consists of the Industry Training Authority - Heavy Mechanical Trades - Foundation training and a 2 week, mandatory work experience placement.

There are four mechanical trades paths introduced in this program:

Truck and Transport Mechanics diagnose, repair and service highway buses and trucks. They work for commercial transport vehicle dealers, garages and service stations. A Commercial Transport Vehicle Mechanic is designated as a Truck and Transport Mechanic under the Interprovincial Red Seal program. These mechanics work on the mechanical, electrical and electronic components of vehicles. This includes the fuel, brake, steering and suspension, transmission, emission control and exhaust, and cooling and climate control systems. Some mechanics specialize in one or more of these systems.

Heavy Duty Equipment Technicians overhaul, repair and service equipment such as graders, loaders, shovels, tractors, trucks, forklifts, drills, and wheeled and tracked vehicles. Working from manufacturers' specifications, they identify and repair problems in structural, mechanical, or hydraulic systems. Heavy Duty Equipment Technicians also work on industrial and construction vehicles, such as mining trucks and bulldozers; on heavy equipment used in construction, forestry, materials handling, landscaping, and land clearing; as well as on buses and large trucks.

Diesel Engine Mechanics install, repair, and maintain all internal combustion diesel engines and components as used in transport, construction, and marine industries.

Transport Trailer Technicians maintain, rebuild, overhaul, recondition and perform diagnostic troubleshooting and repair of commercial truck trailers.

There is a reading week in this program typically at the end of February and the (30) hours are not included in the total hours as they are Non-Contact.

Admission Requirements:

Math – one of the following:

BC Math 10 (minimum final grade of C+), or BC Math 11 or BC Math 12 (minimum final grade of C), or equivalent.

BC MATH 030 or higher, with a minimum final grade of C+, or equivalent.

English – one of the following:

BC Language Arts 10 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

BC Language Arts 11 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

BC Language Arts 12 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

ENGL 030 or higher, with a minimum final grade of C+, or equivalent.

IELTS score of 5.5 overall with no band less than 5.0 or equivalent English placement test and score.

OR

ESTR 037 (Intermediate-Level Essential Skills for Trades) with a minimum final grade of 67%.

OR

Successful completion of the NLC POWER program.

Length of Program: (weeks and total hours) Approx. 34 weeks, 970 hours

Program Intake: (start/finish dates)

Start: September

Finish: May

Available Seats: 16

Application Deadline: All completed applications should be received one month prior to the start of the program. Completed applications received after this date will be reviewed based on seat availability.

Career Prospects: Truck and Transport/Heavy Duty /Transport Trailer/Diesel Engine service technician, sales or parts, parts or sales manager, business or dealership owner, or college instructor.

Affiliations/Partnerships: In partnership with School Districts 59, 60, 81 and 87. Industry Training Authority; the ITA has recognized this program as meeting Level 1 Technical Training requirements and 450 work-based training hours.

Location: Northern Lights College: South Peace Campus - Dawson Creek and Fort St. John

Additional Requirements/Supplies: (fees, supplies, materials)

CSA approved safety toed footwear

CSA approved safety glasses with clear lenses.

Textbooks as indicated in the course syllabus.

Students are required to have a computer (PC or laptop) with minimum computer requirements as listed on the NLC website (www.nlc.bc.ca/Services/Information-Technology/minPC).

Eligibility for Canada Student Loans: (Yes or No)

No

Required Minimum Grade: (overall and/or minimum within a course)

70%

Residency Requirement: (percentage of courses which must be taken at NLC)

100% or approval of the Dean

Required Courses: (list courses required to complete credential and total hours for each course)

HMTF 102 Heavy Mechanical Trades Foundation - 910 hours

HMTF 150 Heavy Mechanical Trades Work Experience - minimum 60 hours