

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

**Program Name:** Heavy Mechanical Trades Apprenticeship  
**Credential/Certification:** NLC will report the technical training outcome for each level to the ITA  
**Date Submitted:** September 2019  
**Effective Date:** September 2019

**Program Contact:** Mark Heartt

**Dean:** Mark Heartt

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**Program Description:**

This program consists of levels 1, 2, 3 and 4 Apprenticeship Technical Training. Upon completion of this course, students will be capable of working in the Heavy Duty, Truck and Transport, Diesel Engine, or Transport Trailer repair industry.

The Heavy Mechanical Technical training encompasses the following four trades:

Transport Trailer Technicians maintain, rebuild, overhaul, recondition, does diagnostic trouble shooting and repair of commercial truck trailers.

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

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.

**Admission Requirements:** Admission eligibility as per the Industry Training Authority

**Length of Program:** (weeks and total hours) 840 hours, 28 weeks

**Program Intake:** (start/finish dates) September to June

**Available Seats:** 16

**Application Deadline:** All completed applications should be received one month prior to 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, college instructor, mechanical engineer.

**Affiliations/Partnerships:** Industry Training Authority

**Location:** Fort St. John

**Additional Requirements/Supplies:** (fees, supplies, materials)  
Footwear having CSA safety-toe protection, coveralls and CSA safety glasses with clear lenses.

Once accepted, students are required to pay a non-refundable, non-transferable, non-deferrable deposit to hold a seat in the program.

Textbooks.

Students are required to sign and adhere to the Trades and Apprenticeship Safety and Attendance Policy.

**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)

HMTA 100 Heavy Mechanical Trades Level 1 (300 hours)

HMTA 200 Heavy Mechanical Trades Level 2 (240 hours)

HMTA 300 Heavy Mechanical Trades Level 3 (180 hours)

And one of the following:

HDTA 400 Heavy Duty Equipment Technician Level 4 (120 hours)

or

HDTA 401 Truck and Transport Mechanic Level 4 (120 hours)