

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

Program Name: Heavy Mechanical Trades Apprenticeship

Credential/Certification: NLC reports training outcomes to Skilled Trades BC for Credentialing

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Effective Date: April 1, 2024

Program Contact: trades@nlc.bc.ca

Dean: Rod Cork

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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, complete diagnostic troubleshooting and repair commercial truck trailers.

Diesel Engine Mechanics install, repair and maintain all internal combustion diesel engines and components 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, and electrical components of vehicles. This includes 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 work on industrial and construction vehicles, mining trucks, bulldozers, heavy

equipment used in construction, forestry, materials handling, landscaping, land clearing, buses, and large trucks.

Admission Requirements: Must be an active registered apprentice in BC, and follow the sequence of training as indicated in the program credentialing chart posted on Skilled Trades BC.

Length of Program: (weeks and total hours) 870 hours, (29 weeks)

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

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 technician, parts or sales manager, business or dealership owner, college instructor, and with further training, a mechanical engineer.

Affiliations/Partnerships: Skilled Trades BC

Location: Fort St. John

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

Students must provide personal protective equipment (safety glasses, Footwear having CSA safety-toe protection, gloves, coveralls, etc.).

Students are required to have a computer (laptop or other mobile device) with minimum computer requirements.

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 (150 hours)

or

HDTA 401 Truck and Transport Mechanic Level 4 (150 hours)