



# Heavy Mechanical Trades Diploma

## Program Overview

In the first year of this two-year program, students acquire the occupational skills and knowledge required for entry into the Heavy Mechanic Trades (HMT) industry. These skills include brakes, pneumatics, hydraulics, electrical, electronics, frames, steering, and suspension.

The second year gives students in-depth knowledge in heating, ventilation and air conditioning followed by all aspects of engine and supporting systems. This includes disassembling and rebuilding engines and supporting systems, troubleshooting and repairing fuel injection systems, and diagnosing engine brakes and diesel emission systems. The final semester in the second year includes trailer service, repair and diagnosing of all trailers and related components, powertrains, which speaks to clutches, manual transmission, torque converter, drivelines and automatic transmissions, and final drives and drivelines.

Graduates of this program are prepared to enter several areas of the heavy mechanical field as an apprentice. Experience in the trade areas of choice is needed to continue with the training to become credentialed as a journeymen trade's person. Possible future careers include:

- Diesel Engine Mechanic
- Heavy Duty Equipment Technician
- Truck and Transport Mechanic

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## Admission Requirements

Applicants require proof of successful completion of the following:

- 1 English 10 or equivalent
- 2 Foundations of Math 10 or equivalent
- 3 Candidates whose first language is not English must satisfy CNC's English Language Proficiency requirements: Minimum TOEFL score of 80 (IBT) or minimum overall Academic IELTS score of 6.0 or equivalent, or successful completion of CNC's English for Academic Purposes (EAP) 3



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