



# Heavy Equipment Technician – Heavy Equipment Mechanic (Off Road)

## About this job

Heavy equipment technicians (HET) provide a critical service, helping ensure the safety of heavy vehicles and industrial equipment, and preventing risky, inconvenient, or costly breakdowns. Along with the physical service and repair work, they also interpret technical manuals and complete service reports.



HET – OFF ROAD FALLS UNDER NATIONAL OCCUPATION CLASSIFICATION (NOC) CODE #7312/72401



- Three-year program
- Eligible for Red Seal Endorsement
- High Demand Trade
- Aurora College
- Requires out of the territory technical training
- Mechanical Industry

## \$72,800

Estimated Average Journeyman Salary

APPRENTICESHIP, TRADES, AND OCCUPATIONAL CERTIFICATION

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## What can I expect to do for work if I become a HET - Off Road?

HETs - Off Road maintain, repair and overhaul heavy vehicles and industrial heavy equipment. This may include:

- internal combustion engines and components, both stationary and mobile,
- tracked equipment, commonly called crawler tractors,
- ground engaging equipment and components,
- earth moving equipment,
- off-highway motor vehicles, commonly called trucks,
- towed off-highway vehicles, commonly called trailers,
- interpreting work orders and technical manuals,
- keeping equipment cleaned, lubricated and maintained,
- diagnosing faults or malfunctions,
- adjusting equipment and repair or replace defective parts, components or systems,
- testing repaired equipment for proper performance and ensure that the work done meets manufacturers' specifications and legislated regulations, and
- completing service reports.

## What kind of working conditions can I expect?

The working environment for HETs varies considerably from one job to another. Some HETs work in modern laboratories. Others work at construction or industrial sites, sometimes outdoors in all types of weather conditions. Travel requirements and hours of work also vary. There is risk of injury involved in working with heavy equipment and power tools. Proper safety standards are maintained at all times.

### Eligibility Requirements

Entrance Exam – Pass Exam 5 with a score of 70% or higher  
or

Completion of the following high school courses

- English 20-2 (pass) or Literacy 30 (pass)
- Math 10C (pass)
- Science 10 (pass)

or

All five Canadian General Educational Development (GED) tests

**SCHOOLS NORTH APPRENTICESHIP PROGRAM (SNAP) - SNAP** apprentices are not required to satisfy the entrance requirements prior to signing an apprenticeship contract. However, the SNAP apprentice must satisfy the entrance requirements or write the TEE before attending technical training.

## What are some skills that are valued in this profession?

- good vision, hearing and sense of smell to diagnose problems,
- the strength and stamina required to work with heavy equipment and work in cramped or awkward positions,
- the ability to work and problem solve alone or as part of a team,
- mechanical ability and an interest in all types of machinery and engines, electronics and precision equipment,
- the ability to think logically and keep current with changes in technology, and
- a valid driver's license to operate equipment for testing purposes.

## What is the minimum requirement to become an apprentice in this trade?

Apprentices must obtain a minimum of 70% on the Trades Entrance Exam – TEE Category #2 or the equivalent education as outlined below. This must be done before signing the Apprenticeship contract and attending technical training.

## How long will it take to complete a HET - Off Road apprenticeship?

An apprenticeship takes about three years to complete and includes three on the job periods and three technical training periods. You need to complete 1800 hours per period, for a total of 5400 hours.

## How long is technical training?

Apprentices will attend 720 technical training hours. Apprentices usually go to school for this program at Aurora College in **Fort Smith, NT** for the first two levels, and **Alberta** for the final level.

Period	Technical Training <sup>1</sup>	Prerequisites for technical training	Hours <sup>2</sup>
1st	8 Weeks 240 hours	Entrance Exam and 900 hours	1800
2nd	8 Weeks 240 hours	Completed 1 <sup>st</sup> Period	3600
3rd	8 Weeks 240 hours	Completed 2 <sup>nd</sup> Period	5400

<sup>1</sup>Length of In-School Training

<sup>2</sup>Minimum Time Required to Complete (Includes Technical Training)

For more information:

[www.gov.nt.ca/Apprenticeship](http://www.gov.nt.ca/Apprenticeship)