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## **Trades and Applied Technology Programs**

# **Heavy Mechanical Trades Foundation**

**Location Offered:**

Nanaimo

**Credential:**

Certificate

**Options:**

Apprenticeship

**Program Length:**

10 Months

## **The Program**

This Heavy Mechanical Trades Foundation program, considered one of the best in British Columbia, provides basic training in preparation for employment and apprenticeships in Heavy Duty Equipment Technician, Truck and Transport Mechanic, Transport Trailer Technician and Diesel Engine Mechanic. Through technical and practical training on actual equipment used in industry, students learn safety, tools, computers, as well as the service and maintenance of on- and off-highway trucks and buses, and heavy equipment such as bulldozers, excavators, graders and loaders. Job search, communication and resume writing skills are covered, and students also participate in on-the-job work experience.

This program is suited to individuals with all levels of mechanical experience who meet the listed admission requirements. Upon successful completion of the program students receive a certificate in Heavy Mechanical Trades Foundation with level one theory credit and four hundred fifty hours work based training time. This allows the graduate to choose one of the following four trades as an apprentice: Heavy Duty Equipment Technician, Truck Transport Mechanic, Transport Trailer Technician or Diesel Engine Mechanic.

Students have an opportunity during the program to obtain airbrake endorsement, forklift certification, at a special student rate while in the program.

Visit the VIU Heavy Mechanical Trades website for more information.

## **Program Outline**

<b>Heavy Mechanical Trades Foundation</b>
HMTF 101T - (Work Experience)
HMTF 140T - (Occupational Skills)
HMTF 142T - (Brakes)
HMTF 144T - (Hydraulics)
HMTF 148T - (Trailer)
HMTF 150T - (Structural Components and Accessories)
HMTF 152T - (Heating, Ventilation, and Air Conditioning)
HMTF 160T - (Suspension and Steering)
HMTF 166T - (Powertrain)
HMTF 168T - (Electrical)
HMTF 180T - (Engine and Support Systems)

*All program courses must be successfully completed before certificates will be issued.*

## **Admission Requirements**

- Grade 12, or equivalent, or mature student status.
- Minimum 17 years of age.
- Successful completion of assessment testing.
- Personal profile.
- Valid driver's license.
- See also Trades general admission requirements.

### ***Notes on Admission***

- Good health and not allergic to solvents and lubricants.
- Those with good reading and comprehension skills, basic science, mathematics, study skills, and a mechanical aptitude experience the most success in the program.
- Computer skills, Physics 12, Mathematics 12 and English 12 are required by some employers.
- An interview may be required.

## **Career Opportunities**

Graduates have found employment as Heavy Duty Equipment Technicians, Truck Transport Mechanics, Transport Trailer Technicians, Diesel Engine Mechanics, Parts Persons in parts supply stores, and other related mechanical occupations.

## **Work Placement Opportunities**

### **Apprenticeship/Journeyman Information**

VIU offers apprenticeship training in the Heavy Mechanical Trades.

To achieve journeyman status, graduates of the certificate program must find employment as an apprentice in one of the four trades and complete an apprenticeship to be eligible to write the Interprovincial Exam to become a certified Heavy Duty Equipment Technician, Truck Transport Mechanic, Transport Trailer Technician or Diesel Engine Mechanic. Having the option to choose between the four careers provides flexibility when entering the job market.

Demand for apprentices in the four trades can vary with the economy; one or another could provide better job opportunities during different economic conditions. With the Heavy Mechanical Trades Foundation certificates in hand, graduates have a broader field of opportunity. Employers look for students with a good attitude towards their work, who are reliable, and who have achieved good marks.

The Heavy Duty Equipment Technician, Truck Transport Mechanic, Transport Trailer Technician and Diesel Engine Mechanic Apprenticeship programs consist of up to four years of on-the-job experience combined with in-school technical training in order to become eligible to write the Interprovincial (Red Seal) Examination for journey person certification.

For more information on apprenticeship training, please visit the website at [www.itabc.ca](http://www.itabc.ca), contact the Industry Training Centre at 1-866-660-6011, or call our Program and Registration Assistants (P&RAs) at Vancouver Island University toll-free at 1-888-920-2221, Ext. 6227. Visit VIU's Trades and Applied Technology Apprenticeship page for more information and schedules.

## **Start Date and Application Deadline**

Applications are accepted on an ongoing basis.

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