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**DIESEL ENGINE MECHANIC**

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**Credential Issued:**

ITA Certificate of Apprenticeship (Diesel Engine Mechanic)

**Occupational Description:**

“Diesel Engine Mechanic” means a person who installs, repairs and maintains all internal combustion diesel engines and components as used in transport, construction and marine.

**Program Duration & Structure:**

The program will be delivered in a variety of formats combining in-school and work-based training, all designed to meet the competency standards and profile defined by the industry and approved by ITA and will generally take 4 years to complete.

The program includes:

- In-school: 12 weeks\* (approximately 6 weeks per level)
- Work-based: 6,390 hours

\*The in-school / technical training requirement is typically met through block release training delivered by an ITA approved training provider. It can also be met through approved alternative training models (e.g. distance education, part-time) and / or level challenge exam where these options are available.

**Program Completion Requirements:**

Completion of 6,390 workplace hours:

- Sponsor attestation

Completion of technical training: (Requirement can be met through challenging a level exam where available.

- Level 1 – practical assessment and written level examination
- Level 2 – practical assessment and written level examination

**Program Challenge Requirements:**

n/a

**Program Pre-requisites:**

- Recommended Education: Grade 10 or equivalent including English 10, Math 10, and Science 10. Preferred: Grade 12

**Assessment Methods:**

- In-school assessments (practical & written exams)
- Work-based assessments (practical)
- Level exams by challenge

**Linkages to Other Credentials:**

n/a

**Program Standards Documentation:**

- Program Outline (Heavy Duty Equipment Technician)

**Industry Program Standards Mechanism:**

TBA

**Program Providers:**

Institution-based component of the program will be delivered by public post-secondary institutions (see [www.educationplanner.bc.ca/apprenticeship.cfm](http://www.educationplanner.bc.ca/apprenticeship.cfm) for a list of schools), private training institutions, and secondary schools that have been approved by ITA.

**Technical Training Content:****Level 1\***

Apply Work Practices & Procedures  
Diesel Engines  
Mechanical Diesel Fuel Systems  
Electrical & Electronic Systems  
Spark Ignition Systems  
Alternate Brake Systems  
Note: \* = Heavy Duty Equipment Tech Level 2

**Level 2\***

Work Practices & Procedures  
Electrical & Electronic Systems  
Mechanical Diesel Fuel Systems  
Electronic Diesel Fuel Systems  
Spark Ignition Engines  
Note: \* = Heavy Duty Equipment Tech Level 3

Approved: March 2002 (ITAC)

Updated: January 2006 (ITA)