

Fact sheet

# Diesel Motor Mechanic

(Heavy Commercial Vehicle)

(ANZSCO: 321212)



## Job description

Heavy Commercial Vehicle Mechanics, service, maintain and repair heavy road transport equipment, e.g. trucks and buses used on highways.

Their job involves:

- » detecting and diagnosing faults in engines and parts
- » dismantling and removing engine assemblies, transmissions, steering mechanisms and other components, and checking parts
- » repairing and replacing worn and defective parts and reassembling mechanical components, and referring to service manuals as needed
- » performing scheduled maintenance services, such as oil changes, lubrications and engine tune-ups, to achieve smoother running of vehicles and ensure compliance with pollution regulations
- » reassembling engines and parts after being repaired
- » testing and adjusting mechanical parts after being repaired for proper performance
- » diagnosing and testing parts with the assistance of computers.

The qualification relevant to this job is [AUR31116 Certificate III in Heavy Commercial Vehicle Mechanical Technology](#).

**NOTE:** This trade assessment is for motor mechanics dealing with heavy commercial vehicles (as above) only. It does not extend to mobile plant equipment mechanics, agricultural equipment mechanics and light vehicle mechanics, or specialty areas such as automotive air-conditioning mechanics, brake mechanics, diesel motor mechanics, motorcycle mechanics, outboard motor mechanics or forklift mechanics (material handling technicians).

## How will I be assessed?

Assessment is conducted in two stages:

### Stage 1:

We will review your training and employment evidence to ensure you have:

- » 5 years' employment experience as a Heavy Commercial Vehicle Mechanic (with no formal training) **OR**
- » 3 years' employment experience as a Heavy Commercial Vehicle Mechanic (with relevant formal training\*).

\*'Formal training' is training that aligns with the national training standards in your country of training.

Your evidence must show you have worked in your occupation for at least 12 months within the last 3 years.

[For more information on the documents required for Stage 1, see the Evidence Guide on our website.](#)

### Stage 2:

If you are successful in Stage 1, an assessor will assess you via a technical interview. The technical interview will be conducted in English and no interpreters are allowed.

[For more information on Stage 2, see the Technical Interview Guide on our website.](#)

## What skills and knowledge do I need?

To be awarded the qualification AUR31116 Certificate III in Heavy Commercial Vehicle Mechanical Technology, you must demonstrate your skill and knowledge in a number of **units of competency**. Each unit of competency defines a selection of knowledge and skill required in Australian workplaces.

**You must achieve 36 units of competency:**

**22** core units

and

**14** elective units

These units have been organised into 7 groups as follows:

### GENERAL AUTOMOTIVE WORKPLACE SKILLS

- » AURAEA002 Follow environmental and sustainability best practice in an automotive workplace [Core]
- » AURAFA002 Read and respond to automotive workplace information [Elective]
- » AURASA002 Follow safe working practices in an automotive workplace [Core]
- » AURTTA018 Carry out diagnostic procedures [Core]
- » AURTTK002 Use and maintain tools and equipment in an automotive workplace [Core]
- » AURAFA003 Communicate effectively in an automotive workplace [Elective]
- » AURTTK001 Use and maintain measuring equipment in an automotive workplace [Elective]

### STEERING AND SUSPENSION

- » AURHTD002 Diagnose and repair heavy commercial vehicle steering systems [Core]
- » AURHTD003 Diagnose and repair heavy commercial vehicle suspension systems [Core]
- » AURTTD002 Inspect and service steering systems [Elective]
- » AURTTD004 Inspect and service suspension systems [Elective]

### BATTERIES AND ELECTRICAL SYSTEMS

- » AURETR012 Test and repair basic electrical circuits [Core]
- » AURETR025 Test, charge and replace batteries and jump-start vehicles [Core]
- » AURETR029 Diagnose and repair charging systems [Core]
- » AURETR030 Diagnose and repair starting systems [Core]

### ENGINES AND FUEL SYSTEMS

- » AURHTE002 Diagnose and repair heavy vehicle compression ignition engines [Core]
- » AURTTA004 Carry out servicing operations [Core]
- » AURTTA005 Select and use bearings, seals, gaskets, sealants and adhesives [Elective]
- » AURTTC001 Inspect and service cooling systems [Elective]
- » AURTTC003 Diagnose and repair cooling systems [Core]
- » AURTTE004 Inspect and service engines [Elective]
- » AURTTF002 Inspect and service diesel fuel injection systems [Core]

- » AURETR024 Diagnose and repair compression ignition engine management systems [Core]
- » AURHTZ001 Diagnose and repair heavy vehicle emission control systems [Core]
- » AURTTF005 Diagnose and repair engine forced-induction systems [Core]

## BRAKING SYSTEMS

- » AURHTB001 Diagnose and repair heavy vehicle air braking systems [Core]
- » AURTTB001 Inspect and service braking systems [Elective]
- » AURTTB004 Inspect and service air braking systems [Elective]
- » AURETR022 Diagnose and repair vehicle dynamic control systems [Core]

## TRANSMISSIONS AND DRIVELINES

- » AURHTQ003 Diagnose and repair heavy vehicle drive shafts [Core]
- » AURTTQ001 Inspect and service final drive assemblies [Core]
- » AURHTX004 Diagnose and repair heavy vehicle clutch systems [Elective]
- » AURTTX002 Inspect and service manual transmissions [Elective]
- » AURHTX001 Diagnose and repair heavy vehicle manual transmissions [Elective]
- » AURTTX003 Inspect and service automatic transmissions [Elective]
- » AURTTA006 Inspect and service hydraulic systems [Core]

## OPTIONAL UNITS

- » AURHTJ003 Remove, inspect and refit heavy vehicle wheel and tyre assemblies [Elective]
- » AURHTF002 Diagnose and repair heavy diesel fuel injection systems [Elective]
- » AURETR044 Diagnose and repair integrated engine and transmission management systems [Elective]



## How do I find out more about each unit of competency?

You are **strongly encouraged** to review each of the units of competency shown above. To do this:

1. Go to the following website: <http://training.gov.au/Search/Training>
2. Enter a unit code (e.g. AURAEA002) into the 'Title or code' search box
3. Tick the 'Units of competency' check box
4. Select the 'Search' button
5. Select the unit from the search results
6. Read the Unit of Competency information

## What will I receive after the assessment?

If you **successfully** complete Stage 2 you will receive the following:

- » an Australian Certificate III qualification and a Statement of Results
- » a migration outcome letter if the assessment is to support your visa application.

If you are **unsuccessful** in Stage 2 you will receive:

- » a Statement of Attainment that lists the units of competency you successfully achieved
- » a Statement of Results that lists units of competency you have successfully achieved and those that were not achieved.

## Where can I find more information?

Please refer to our website: <http://www.vetassess.com.au/skills-assessment-for-migration/trade-occupations>

If you have further questions, contact us at:

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