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]
- AURAF002  Read and respond to automotive workplace information [Elective]
- AURASA002  Follow safe working practices in an automotive workplace [Core]
- AURTATA018  Carry out diagnostic procedures [Core]
- AURTTO002  Use and maintain tools and equipment in an automotive workplace [Core]
- AURFA003  Communicate effectively in an automotive workplace [Elective]
- AURTTO001  Use and maintain measuring equipment in an automotive workplace [Elective]

STEERING AND SUSPENSION

- AURHDT002  Diagnose and repair heavy commercial vehicle steering systems [Core]
- AURHDT003  Diagnose and repair heavy commercial vehicle suspension systems [Core]
- AURTD002  Inspect and service steering systems [Elective]
- AURTD004  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]
- AURTAA004  Carry out servicing operations [Core]
- AURTDA005  Select and use bearings, seals, gaskets, sealants and adhesives [Elective]
- AURTCC001  Inspect and service cooling systems [Elective]
- AURTCC003  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?

If you have further questions, contact us at:

📞 +61 3 9655 4801  📧 vetassess@vetassess.com.au