

Diesel Motor Mechanic

[Heavy Vehicle Road Transport] (ANZSCO: 321212)

Job description

A Heavy Vehicle Road Transport motor mechanic service and maintain vehicles, repair and overhaul vehicle components including engines, brakes, fuel systems, manual and automatic transmissions, steering and suspension, drivelines, hydraulics and electrical systems. Motor mechanics rely on a wide range of tools, including hand and power tools, precision measuring tools and equipment, together with diagnostic and electrical measuring equipment.

Motor mechanics are usually employed by equipment dealerships, automotive mechanical service and repair workshops. These work environments can range from small workshops which undertake a variety of repair jobs to larger workshops that specialise in a particular make of equipment.

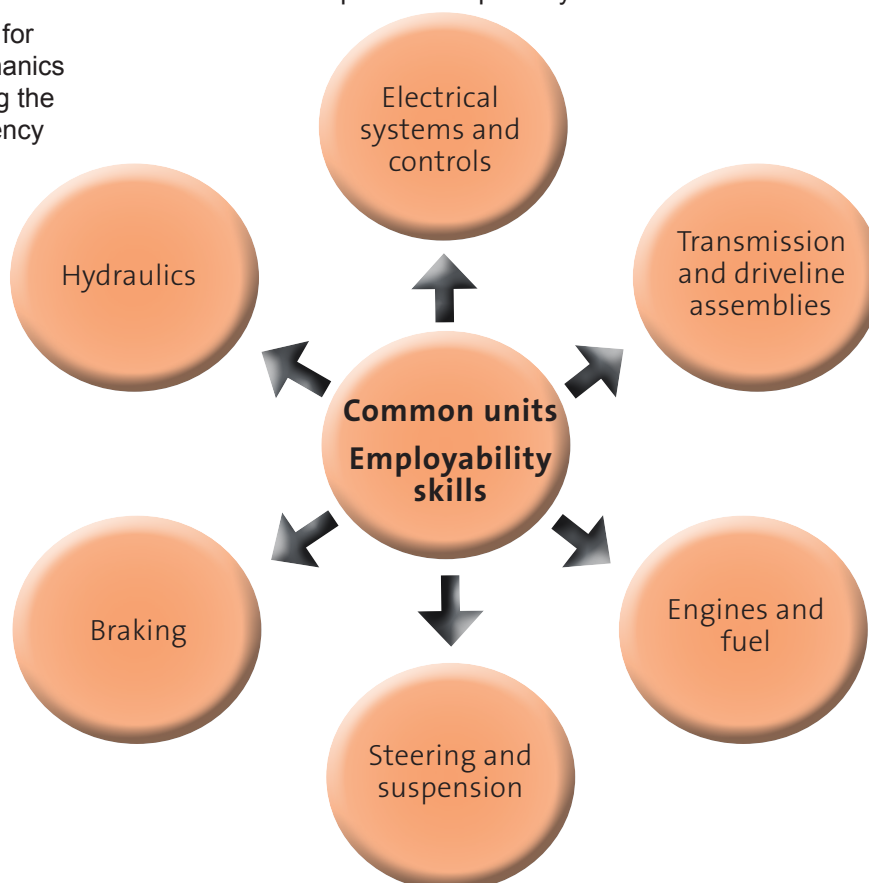
Note: This trade assessment is for generic motor mechanics dealing with heavy road transport vehicles. It does not extend to mobile equipment and light vehicle mechanics or speciality areas such as automotive air-conditioning mechanic, brake mechanic, diesel motor mechanic, motorcycle mechanic or outboard motor mechanic.

Competency assessment

VETASSESS uses competency groups for assessment. These groups consist of units of competency for the Certificate III in Automotive Mechanical Technology qualification (AUR30405). They represent groups of tasks, skills and knowledge that are used to assess an applicant's competence in an occupation and are from the Automotive Retail, Service & Repair Training Package (AUR05).

The minimum requirement for achievement of the Australian qualification is to demonstrate competence (employment and training evidence) in all of the units of competency. Please read the [Portfolio Builder](#) document for more information about how to complete a competency assessment for an Australian qualification.

The assessment for heavy vehicle mechanics is undertaken using the following competency groups:



Common units

Units of competency covering common skills and knowledge will be assessed with each of the competency groups. These common units relate to the workplace occupational health and safety requirements, work processes and procedures, automotive industry standards and requirements to work as a heavy vehicle motor mechanic in Australia.

Employability skills

The assessment includes the following employability skills: teamwork; communication; problem solving; planning & organising; learning; technology; self-management; initiative & enterprise. Competency units contain employability skills that will be assessed with each competency group.

Competency groups

The following is a breakdown of the competency groups shown in the diagram on page 1.

Common units

The following units of competency are common in all groups for assessment purposes.

AURC270103A	Apply safe working practices
AURT271781A	Implement and monitor environmental regulations in the automotive mechanical industry
AURT270278A	Use and maintain workplace tools and equipment
AURT225667A	Use and maintain measuring equipment
AURT200108A	Carry out service operations
AURT366108A	Carry out diagnostic procedures

Note: The tasks, skills, knowledge and employability skills required for the common units are assessed with the following competency groups.

Electrical systems and controls

Be able to service, diagnose and repair automotive electrical systems and controls.

AURE319166A	Repair charging systems
AURE319266A	Repair starting systems
AURE321271A	Service and repair electronic drive management systems
AURE321371A	Service and repair electronic body management systems
AURE218676A	Test, service and charge batteries
AURE218708A	Carry out repairs to a single electrical circuit

Transmission and driveline assemblies

Be able to service, diagnose and repair automotive transmissions, driveline and sub-assemblies.

AURT306170A	Inspect, service and/or repair clutch assemblies and associated operating system components
AURT206670A	Inspect and service transmissions (manual)
AURT306666A	Repair transmissions (manual)
AURT212670A	Service final drive assemblies
AURT213170A	Service final drive (driveline)
AURT312666A	Repair final drive assemblies
AURT313166A	Repair final drive (driveline)

Engines and fuel

Be able to service, diagnose and repair automotive engines, associated components and fuel systems.

AURT201170A	Inspect and service engines
AURT202170A	Inspect and service cooling systems
AURT301166A	Repair engines and associated engine components
AURT202166A	Repair cooling system
AURT305671A	Inspect and repair engine forced induction systems
AURT304666A	Repair and replace emission control systems
AURT204670A	Inspect and service emission control systems

Steering and suspension

Be able to service, diagnose and repair automotive steering and suspension systems.

AURT215170A	Inspect and service steering systems
AURT315166A	Repair steering systems
AURT216170A	Inspect and service suspension systems
AURT316166A	Repair suspension systems

Braking

Be able to service, diagnose and repair automotive braking systems.

AURT210170A	Inspect and service braking systems
AURT310166A	Repair hydraulic braking systems
AURT211170A	Inspect and service air braking systems
AURT311166A	Repair air braking systems

Hydraulics

Be able to service, diagnose and repair automotive hydraulic systems.

AURT209170A	Service hydraulic systems
-------------	---------------------------

Assessment outcome

If you **successfully** complete the assessment process you will receive the following:

- an **Australian Certificate III** qualification that lists the units of competency you successfully achieved.

If you are **unsuccessful** in the assessment process you will be issued:

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

Licensing and industry information

A licence, registration or certification may be required for this occupation.

For further information regarding any licensing requirements refer to:

- Department of Immigration and Citizenship (DIAC) - Australian Skills Recognition Information (ASRI):
www.immi.gov.au/asri
- Mutual recognition for occupational licences in Australia:
www.licencerecognition.gov.au

Additional industry information that may assist you can be found at:

- The myfuture website is Australia's national career information and exploration service, helping people to make career decisions, plan career pathways and manage work transitions:
<http://www.myfuture.edu.au>

Qualification information

If you would like detailed information about the units of competency that make up this qualification please refer to the National Training Information Service (NTIS) website:

<http://www.ntis.gov.au>