

Fact sheet

Diesel Motor Mechanic

(Mobile Plant)

(ANZSCO: 321212)



Job description

Mobile Plant Mechanics service, maintain and repair heavy earthmoving equipment, e.g. dozers, loaders, excavators, graders, drill rigs, cranes, haul trucks and compactors.

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 [AUR31216 Certificate III in Mobile Plant Technology](#).

NOTE: This trade assessment is for motor mechanics dealing with mobile plant technology (as above) only. It does not extend to heavy vehicle road transport 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 Mobile Plant Mechanic (with no formal training) **OR**
- » 3 years' employment experience as a Mobile Plant 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 AUR31216 Certificate III in Mobile Plant 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 8 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]
- » AURAF003 Communicate effectively in an automotive workplace [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 [Elective]
- » AURTTK001 Use and maintain measuring equipment in an automotive workplace [Core]

HYDRAULIC SYSTEMS

- » AURTTA006 Inspect and service hydraulic systems [Core]
- » AURKTA011 Diagnose and repair mobile plant hydraulic systems [Core]
- » AURKTA005 Inspect, service and repair track type drive and support systems [Core]

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]
- » AURTTTC003 Diagnose and repair cooling systems [Core]
- » AURHTE001 Remove and install heavy vehicle engine assemblies [Elective]
- » AURTTTC001 Inspect and service cooling systems [Elective]
- » AURTTTE004 Inspect and service engines [Elective]
- » AURHTF002 Diagnose and repair heavy vehicle diesel fuel injection systems [Core]



- » AURETR024 Diagnose and repair compression ignition engine management systems [Core]
- » AURTTF002 Inspect and service diesel fuel injection systems [Elective]
- » AURTTF005 Diagnose and repair engine forced-induction systems [Core]

STEERING AND SUSPENSION SYSTEMS

- » AURTTD002 Inspect and service steering systems [Elective]
- » AURKTD002 Diagnose and repair mobile plant steering systems [Core]

BRAKING SYSTEMS

- » AURKTB001 Diagnose and repair mobile plant braking systems [Core]
- » AURTTB001 Inspect and service braking systems [Elective]

TRANSMISSION AND DRIVELINE

- » AURKTQ001 Diagnose and repair mobile plant final drive assemblies [Core]
- » AURKTX001 Diagnose and repair powershift transmissions [Core]
- » AURTTX006 Diagnose and repair hydrostatic transmissions [Core]
- » AURTTQ001 Inspect and service final drive assemblies [Elective]
- » AURTTQ003 Inspect and service drive shafts [Elective]
- » AURTTX003 Inspect and service automatic transmissions [Elective]
- » AURTTX004 Inspect and service hydrostatic transmissions [Elective]

OPTIONAL UNITS

- » AURHTB002 Diagnose and repair heavy vehicle hydraulic and air over hydraulic braking systems [Elective]
- » AURHTQ003 Diagnose and repair heavy vehicle drive shafts [Elective]



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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. AURTTK002) 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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