



Australian Government

Assessment Requirements for AURKTD001

Diagnose and repair mobile plant suspension systems

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- diagnose and repair a fault in three mobile plant suspension systems as follows:
 - one gas charged hydraulic suspension
 - two of the following:
 - pivoting axle suspension
 - solid rubber suspension
 - hydraulic suspension.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to diagnosing and repairing mobile plant suspension systems, including procedures for:
 - suspension lock-out
 - isolating and stabilising machines
 - working with stored fluid pressures from accumulators
 - working with high pressure fluid hazards
 - using lifting, jacking and supporting equipment
- application, purpose and operating principles of mobile plant suspension systems and components, including:
 - suspension hydraulic circuitry
 - pivoting axle suspension

- solid rubber suspension
- gas charged hydraulic suspension
- hydraulic suspension
- pneumatic tyres
- diagnostic testing procedures for mobile plant suspension systems, including analysing:
 - component wear
 - abnormal system noise
 - suspension cylinder
 - erratic operation
- repair procedures for mobile plant suspension systems, including procedures for:
 - repairing and adjusting suspension components
 - recharging suspension cylinders
- post-repair testing procedures for mobile plant suspension systems.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the mobile plant suspension systems that they have worked on, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer mobile plant suspension system specifications
- three different mobile plant suspension systems specified in the performance evidence with system faults
- diagnostic equipment for mobile plant suspension systems
- tools, equipment and materials appropriate for repairing and adjusting mobile plant suspension systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

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