



Australian Government

**Assessment Requirements for AURKTD101
Diagnose and repair mobile plant
suspension systems**

Release: 1

Assessment Requirements for AURKTD101 Diagnose and repair mobile plant suspension systems

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

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

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to diagnose and repair mobile plant suspension systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair mobile plant suspension systems, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures

- workplace health and safety (WHS) 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
- environmental requirements relating to diagnosing and repairing mobile plant suspension systems
- purpose and operation 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 procedures for 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

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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