



Australian Government

**Assessment Requirements for AURKTB101
Diagnose and repair mobile plant braking
systems**

Release: 1

Assessment Requirements for AURKTB101 Diagnose and repair mobile plant braking 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 two different spring applied hydraulically released mobile plant braking systems
- diagnose and repair a fault in at least one of the following mobile plant braking systems:
 - hydraulic applied
 - full air actuated
 - air over full hydraulic.

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 braking systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair mobile plant braking 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 braking systems, including procedures for:
 - working with high fluid pressure and high pneumatic pressure
 - working with stored hydraulic accumulator pressures and stored pneumatic pressures
 - isolating and stabilising machines
- environmental requirements relating to diagnosing and repairing mobile plant braking systems, including procedures for trapping, storing and disposing of hydraulic fluids, brake fluids and brake fibres released from braking systems
- operating principles of mobile plant braking systems and associated components, including:
 - levers
 - friction
 - pneumatics
 - electronics
 - hydraulics, including the relationship between force, pressure and area
- mobile plant braking systems, including:
 - multi-disc wet braking systems, including associated cooling systems
 - disc braking systems
 - parking brake systems
- purpose and operation of mobile plant braking systems and components, including:
 - air over full hydraulic
 - full air actuated
 - hydraulic applied
 - spring applied hydraulically released
- diagnostic testing procedures for mobile plant braking systems, including procedures for:
 - component wear analysis
 - system operation analysis
- repair procedures for mobile plant braking systems, including procedures for repairing and adjusting the following braking system components:
 - multi-disc wet braking systems, including wheel end and inboard mounted
 - disc braking systems
 - parking brake systems
- post-repair testing procedures for mobile plant braking 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 braking 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 braking system specifications
- three different mobile plant braking systems specified in the performance evidence
- diagnostic equipment for mobile plant braking systems
- tools, equipment and materials appropriate for repairing and adjusting mobile plant braking 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>