



Australian Government

**Assessment Requirements for AURKTB001
Diagnose and repair mobile plant braking
systems**

Release: 1

Assessment Requirements for AURKTB001 Diagnose and repair mobile plant braking systems

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

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 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, 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

- 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
- application, 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:
 - 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

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 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.

Links

Companion Volume implementation guides are found in VETNet -

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

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