



**Australian Government**

# **Assessment Requirements for AURKTB002**

## **Analyse and evaluate faults in wheeled mobile plant braking systems**

**Release: 1**

# Assessment Requirements for AURKTB002 Analyse and evaluate faults in wheeled 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:

- analyse and evaluate a fault in the braking systems of three different wheeled mobile plant machinery
- the above analysis and evaluation must involve two of the following systems:
  - hydraulic
  - mechanical
  - pneumatic
  - electronic.

## Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to analysing and evaluating faults in wheeled mobile plant braking systems, including procedures for tagging out and isolating machines
- environmental requirements, including procedures for trapping, storing and disposing of oils and fluids released from braking systems
- principles and processes involved in planning and implementing analysis and evaluation of wheeled mobile plant braking system faults
- design and planning of diagnostic procedures of wheeled mobile plant braking system faults, including procedures for diagnosing:
  - hydraulic faults
  - mechanical faults
  - pneumatic faults

- electrical faults
- procedures for analysing and evaluating wheeled mobile plant braking system faults, including:
  - system failure analysis
  - component failure analysis
- types, functions, operation and limitations of the following systems, including:
  - foundation brakes
  - anti-lock braking (ABS) with traction control
  - air over hydraulic brakes
  - air brakes
  - full hydraulic brakes
  - auxiliary braking systems, including hydraulic retarders
- testing procedures of wheeled mobile plant braking systems, including:
  - system pressure, flow rates and temperature
  - braking distance and balance
  - accumulator pressure
  - disc stack height
  - component wear analysis
  - hydraulic retarders
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in wheeled mobile plant braking systems
- procedures for documenting and reporting the analysis and evaluation process.

## 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 wheeled 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 wheeled mobile plant braking system specifications
- three different wheeled mobile plant machinery with braking system faults
- diagnostic equipment for wheeled mobile plant braking systems

- tools, equipment and materials appropriate for analysing and evaluating wheeled 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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