



Australian Government

**Assessment Requirements for AURKTA006
Analyse and evaluate faults in track type
mobile plant transmission, steering and
braking systems**

Assessment Requirements for AURKTA006 Analyse and evaluate faults in track type mobile plant transmission, steering and 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:
 - transmission system of a track type mobile plant machine
 - steering system of a different track type mobile plant machine
 - braking system of a third track type mobile plant machine.

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 track type mobile plant transmission, steering and 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 transmission, steering and braking systems
- principles and processes involved in planning and implementing analysis and evaluation of faults in track type mobile plant transmission, steering and braking systems
- design and planning of diagnostic procedures of track type mobile plant transmission, steering and braking system faults, including procedures for diagnosing:
 - hydraulic faults
 - mechanical faults
 - pneumatic faults
 - electrical faults

- procedures for analysing and evaluating track type mobile plant transmission, steering and braking system faults, including:
 - system failure analysis
 - component failure analysis
- types, functions, operation and limitations of the following systems:
 - transmissions, including:
 - continuously variable transmission (CVT)
 - powershift transmission
 - hydrostatic transmission
 - retarding system
 - steering and braking: including:
 - mechanical and hydraulic operated steering clutch and brake
 - independent drives
 - planetary and differential planetary
 - hydrostatic drive
 - single and multi-disc brake units
- testing procedures for track type mobile plant transmission, steering and braking systems, including:
 - system pressure, flow rates and temperature
 - transmission, steering and braking performance
 - stall testing
 - sensor, actuator and wiring harness integrity
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in track type mobile plant transmission, steering and 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 track type mobile plant transmission, steering and 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 track type mobile plant transmission, steering and braking system specifications
- three different track type mobile plant machinery with transmission, steering and braking system faults
- diagnostic equipment for track type mobile plant transmission, steering or braking systems
- tools, equipment and materials appropriate for analysing and evaluating track type mobile plant transmission, steering and braking systems.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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