



Australian Government

**Assessment Requirements for AURKTD004
Analyse and evaluate faults in track type
mobile plant undercarriage and suspension
systems**

Release: 1

Assessment Requirements for AURKTD004 Analyse and evaluate faults in track type mobile plant undercarriage and suspension 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:
 - undercarriage system of a track type mobile plant machine
 - suspension system of a different track type mobile plant machine
 - undercarriage or suspension 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 undercarriage and suspension systems, including procedures for tagging out and isolating machines
- environmental requirements, including procedures for trapping, storing and disposing of oils and fluids released from undercarriage and suspension systems
- principles and processes involved in planning and implementing analysis and evaluation of faults in track type mobile plant undercarriage and suspension systems
- design and planning of diagnostic procedures of track type mobile plant undercarriage and suspension system faults, including procedures for diagnosing:
 - hydraulic faults
 - mechanical faults
 - electrical faults
- procedures for analysing and evaluating track type mobile plant undercarriage and suspension system faults, including:

- system failure analysis
- component failure analysis
- types, functions, operation and limitations of the following systems, including:
 - undercarriage system and components, including:
 - track
 - rollers
 - idlers
 - frames
 - recoil mechanisms
 - suspension system and components, including:
 - rigid platform
 - low track
 - live axle
 - dead axle
 - elevated sprocket
 - equaliser bars
 - oscillating undercarriage
- testing procedures of track type mobile plant undercarriage and suspension systems, including:
 - component wear analysis
 - track alignment
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in track type mobile plant undercarriage and suspension 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 undercarriage and 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 track type mobile plant undercarriage and suspension system specifications
- three different track type mobile plant machinery with undercarriage and suspension system faults
- diagnostic equipment for track type mobile plant undercarriage and suspension systems
- tools, equipment and materials appropriate for analysing and evaluating track type mobile plant undercarriage and suspension 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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