



Australian Government

Assessment Requirements for AURKTA007 Analyse and evaluate faults in mobile plant hydraulic systems

Release: 1

Assessment Requirements for AURKTA007 Analyse and evaluate faults in mobile plant hydraulic 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 faults in the mobile plant hydraulic system of three different mobile plant machinery using flow meters, pressure gauges and temperature sensing devices.

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 mobile plant hydraulic systems, including procedures for tagging out and isolating machines
- environmental requirements, including procedures for trapping, storing and disposing of oils and fluids released from hydraulic systems
- principles and processes involved in planning and implementing analysis and evaluation of mobile plant hydraulic system faults
- design and planning of diagnostic procedures of mobile plant hydraulic system faults, including procedures for diagnosing:
 - hydraulic faults
 - mechanical faults
 - electrical faults
- procedures for analysing and evaluating mobile plant hydraulic system faults, including:
 - system failure analysis
 - component failure analysis
- types, functions, operation and limitations of hydraulic systems and components: including:

- reservoirs
- accumulators
- pumps
- valves
- actuators
- motors
- conductors and connectors
- hydraulic fluids
- hydraulic symbols and system schematic
- testing procedures of mobile plant hydraulic systems, including:
 - system pressure, flow rates and temperature
 - cycle time performance
 - sensor, actuator and wiring harness integrity
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in mobile plant hydraulic systems, including flow meters, pressure gauges and temperature sensing devices
- 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 mobile plant hydraulic 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 hydraulic system specifications
- three different mobile plant machinery with hydraulic system faults
- diagnostic equipment for mobile plant hydraulic systems
- tools, equipment and materials appropriate for analysing and evaluating mobile plant hydraulic 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>