



Australian Government

**Assessment Requirements for AURHTY002
Diagnose and repair mechanical
connections of heavy vehicles and trailers
over 4.5 tonnes**

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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 standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- diagnose and repair a fault in two of the following mechanical connections of a heavy vehicle and trailer:
 - fifth wheel assembly
 - king pins and upper couplers
 - pintle hook and drawbar
 - landing gear
- diagnose and repair a fault in both of the following:
 - electrical connections of a heavy vehicle and trailer
 - pneumatic connection of a heavy vehicle and trailer.

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 mechanical connections of heavy vehicles and trailers, including procedures for:
 - lifting and supporting heavy vehicles and trailers
 - safely manoeuvring heavy vehicles and trailers
- environmental requirements, including procedures for safely handling and disposing of lubricants
- application, purpose and operation of mechanical connections of heavy vehicles and trailers, including:

- fifth wheel assemblies
- king pins and upper couplers
- pintle hook and drawbar
- landing gear
- electrical connections
- pneumatic connections
- types and applications of fifth wheel lubricants
- diagnostic testing procedures for mechanical connection of heavy vehicles and trailers, including:
 - checking for slack in the fifth wheel operation when connected to a trailer
 - inspecting top plate and brackets for cracks
 - inspecting the fifth wheel and mounting plate welds
 - checking fifth wheel operation using a lock tester
 - testing electrical connections
 - testing pneumatic connections
- repair and adjustment procedures for mechanical connection of heavy vehicles and trailers, including:
 - fifth wheel assembly
 - king pins and upper couplers
 - pintle hook and drawbar
 - landing gear
 - electrical connections
 - pneumatic connections
- post-repair testing procedures for mechanical connection of heavy vehicles and trailers.

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 mechanical connections of heavy vehicles and trailers 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 mechanical connection specifications

- two different heavy vehicle and trailer mechanical connections with faults
- lubricating equipment for mechanical connections of heavy vehicles and trailers
- tools, equipment and materials appropriate for repairing and adjusting mechanical connections of heavy vehicles and trailers.

Links

Companion Volume implementation guides are found in VETNet -

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

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