



Australian Government

Assessment Requirements for AURMTQ001 Analyse and repair faults in performance driveline systems

Release: 1

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

- carry out the analysis, repair and post-repair checks on two different competition vehicles with performance driveline system faults, including:
 - gear selection
 - noise
 - vibration
 - harsh engagement
 - slipping.

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 repairing faults in performance driveline systems, including procedures for:
 - working with hot oils
 - working with rotating driveline components
- environmental requirements, including procedures for trapping, storing and disposing of oils released from driveline components
- types, function, operation and limitations of performance transmission, final drive and driveline components, including:
 - manual transmissions
 - automatic transmissions
 - drive shafts

- final drives
- drive axles
- diagnostic testing procedures of performance driveline systems, including:
 - noise and vibration analysis
 - road testing procedures
 - scan tool and data logger
- procedures for the repair and improvement of performance driveline systems, including:
 - driveline component dismantling, cleaning, repair and reassembly procedures
 - driveline component replacement and adjustment procedures
- post-repair testing procedures of performance driveline systems, including gear selection.

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 performance driveline systems that they have analysed and repaired, e.g. work order.

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
- manufacturer specifications for vehicle performance driveline systems
- two different competition vehicles with faults in their performance driveline systems
- diagnostic equipment for performance driveline systems
- tools, equipment and materials appropriate for analysing and repairing performance driveline 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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