



Australian Government

Assessment Requirements for AURMTQ101 Analyse and repair faults in performance driveline systems

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

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

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to analyse and repair faults in performance driveline systems, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to analyse and repair faults in performance driveline systems, including:
 - establishing serviceability of tools and equipment
 - documentation and reporting procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials

- recycling procedures
- work health and safety (WHS) requirements relating to analysing and repairing faults in performance driveline systems, including procedures for:
 - working with hot oils
 - working with rotating driveline components
 - methods of creating and repairing panels
- environmental requirements, including procedures for trapping, storing and disposing of oils released from driveline components
- analytic and evaluative methodology used to repair faults in performance driveline systems, including:
 - diagnostic process, sequence, tests, and testing equipment
- types and key features 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 identifying the causes of faults, including intermittent faults
- 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

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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