



Australian Government

Assessment Requirements for AURHTQ103 Diagnose and repair heavy vehicle drive shafts

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:

- diagnose and repair a fault in at least one heavy vehicle drive shaft, including:
 - replacing one universal joint
 - completing at least two of the following further actions:
 - replacing centre support bearing assembly
 - measuring drive shaft angles and phasing
 - measuring run-out of drive shaft
 - balancing drive shaft
 - replacing slip spline.

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 diagnose and repair heavy vehicle drive shafts, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair heavy vehicle drive shafts, including:
 - establishing serviceability of tools and equipment
 - documentation 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
- workplace health and safety (WHS) requirements relating to diagnosing and repairing heavy vehicle drive shafts, including procedures for:
 - isolating and stabilising vehicles or machines
 - working with rotating shafts
- environmental requirements relating to diagnosing and repairing heavy vehicle drive shafts
- operating principles of heavy vehicle drive shafts and associated components, including:
 - universal joint working angles
 - drive shaft phasing angles
 - velocity fluctuation of universal joints
- purpose and operation of heavy vehicle drive shafts and components, including:
 - single and multi-piece shafts
 - universal joints
 - centre support assembly
 - slip joints
 - shaft alignment
- diagnostic testing procedures for heavy vehicle drive shafts, including road testing procedures for:
 - drive shaft noise diagnostic
 - vibration diagnostic
 - drive line geometry and phasing
 - drive shaft run-out
- repair procedures for heavy vehicle drive shafts, including procedures for:
 - dismantling drive shafts
 - inspecting drive shafts
 - reassembling drive shaft and aligning components
- post-repair testing procedures for heavy vehicle drive shafts.

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 heavy vehicle drive shafts 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 drive shaft specifications
- heavy vehicle with faults in its drive shaft
- diagnostic equipment for heavy vehicle drive shafts
- tools, equipment and materials appropriate for repairing and adjusting heavy vehicle drive shafts.

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>