



Australian Government

Assessment Requirements for AURHTQ003 Diagnose and repair heavy vehicle drive shafts

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:

- diagnose and repair a fault in one heavy vehicle drive shaft, including:
 - replacing one universal joint
 - completing 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

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 heavy vehicle drive shafts, including procedures for:
 - isolating and stabilising vehicles or machines
 - working with rotating 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
- application, 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:
 - drive shaft noise and vibration diagnosis
 - 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 shafts and aligning their components
- post-repair testing procedures for heavy vehicle drive shafts.

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 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.

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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