



**Australian Government**

# **Assessment Requirements for AURLTQ002 Diagnose and repair light vehicle drive shafts**

**Release: 1**

# Assessment Requirements for AURLTQ002 Diagnose and repair light vehicle drive shafts

## 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 the following drive shafts in two different light vehicles, in which the work must involve:
  - one rear wheel drive vehicle with drive shaft with universal joints, including removing the drive shaft from vehicle, replacing one universal joint, and refitting the drive shaft
  - one front wheel drive vehicle with constant velocity joint drive shaft, including removing the drive shaft from the vehicle and refitting it.

## 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 light vehicle drive shafts, including procedures for working with hazardous oils
- environmental procedures for trapping, storing and disposing of oils released from drive shafts
- operating principles of light vehicle drive shafts and associated components, including:
  - torque reaction of rear axle housings
  - torque steer
- application, purpose and operation of the following components of light vehicle drive shafts and components, including:
  - propeller shafts, including:
    - single and multi-piece shafts

- universal joints, including cross and yoke joints, double cardan joints and Lobro joints
- velocity fluctuation of universal joints
- shaft alignment
- constant velocity joints, including:
  - Birfield joints
  - double offset joints
  - tripod joints
- diagnostic testing procedures for light vehicle drive shafts, including road testing procedures that include drive shaft noise and vibration
- repair procedures for light vehicle drive shafts, including procedures for:
  - dismantling drive shafts
  - inspecting drive shafts
  - reassembling and aligning components
- post-repair testing procedures for light 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 light 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 light vehicle drive shaft specifications
- light vehicle with front engine and rear wheel drive
- light vehicle with front wheel drive constant velocity joint drive shaft
- diagnostic equipment for light vehicle drive shafts
- tools, equipment and materials tools appropriate for repairing light vehicle drive shafts.

## 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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