



Australian Government

**Assessment Requirements for AURLTQ012
Diagnose and repair light vehicle drive
shafts**

Release: 1

Assessment Requirements for AURLTQ012 Diagnose and repair light vehicle drive shafts

Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

The candidate must demonstrate they can perform the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate a diagnosis and repair of light vehicle drive shafts that safely follows workplace procedures to meet required outcomes. This includes:

- diagnosis and repair of one rear wheel drive vehicle with drive shaft with universal joints, demonstrating the ability to:
 - remove the drive shaft from the vehicle
 - replace one universal joint
 - refit the drive shaft
- diagnosis and repair of one front wheel drive vehicle with constant velocity joint drive shaft, demonstrating the ability to:
 - remove the drive shaft from the vehicle
 - refit the drive shaft
 -

Knowledge Evidence

The candidate must demonstrate the following knowledge:

Key policies and procedures relating to the diagnosis, testing and repair of light vehicle drive shafts, including:

- how to locate and identify manufacturers specifications or equivalent documentation and workplace procedures for the diagnosis and repair of light vehicle drive shafts
- the following workplace health and safety requirements for diagnosis and repair of light vehicle drive shafts:
 - safety procedures for working with hazardous oils
- the following environmental requirements for diagnosis and repair of light vehicle drive shafts:
 - procedures for trapping, storing and disposing of oils released from drive shafts

- the following diagnostic testing procedures for light vehicle drive shafts:
 - road testing that include drive shaft noise and vibration
- the following repair procedures for light vehicle drive shafts:
 - dismantling drive shafts
 - inspecting drive shafts
 - reassembling and aligning components
- post-repair testing procedures for light vehicle drive shafts
- workplace housekeeping procedures

Light vehicle drive shafts and associated components information, including:

- the operating principles of:
 - torque reaction of rear axle housings
 - torque steer
- the purpose and operation of the following propeller shafts:
 - single and multi-piece shafts
 - universal joints
 - cross and yoke joints
 - double cardan joints
 - lobro joints
 - velocity fluctuation of universal joints
 - shaft alignment
- the purpose and operation of the following constant velocity joints:
 - tripod joints
 -

Assessment Conditions

The assessment must:

- include access to:
 - an automotive repair workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
 - repair orders and workplace instructions relating to diagnose and repair activity
 - workplace procedures relating to diagnose and repair activity
 - manufacturer light vehicle drive shaft specifications and procedures or equivalent documentation to complete diagnose and repair activity
 - 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 required for repair of light vehicle drive shafts
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions
- be conducted in a safe environment
- automotive repair workplace or simulated workplace
- be assessed in compliance with relevant policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
- confirm consistent performance can be applied in a range of relevant workplace circumstances

Assessor requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards
-

Links

Companion Volume Implementation Guides are found in VETNet -

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