



Australian Government

AURTTQ002 Remove and refit driveline components

Release: 1

AURTTQ002 Remove and refit driveline components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to remove and refit driveline components. It involves preparing for the task, testing, removing, refitting and adjusting driveline components, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The driveline systems include those of light vehicles, four wheel drive (4WD) vehicles, and light commercial vehicles.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical - Driveline and Final Drives

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to test and remove driveline components	1.1 Job requirements are determined from workplace instructions 1.2 Driveline removal, refit and adjustment procedures and information are sourced and interpreted 1.3 Driveline testing procedures are sourced and interpreted from manufacturer specifications

Elements Elements describe the essential outcomes.	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.4 Hazards associated with the work are identified and risks are managed 1.5 Tools and equipment are selected and checked for serviceability
2. Test and remove driveline components	2.1 Driveline is tested according to manufacturer specifications, workplace procedures and safety requirements 2.2 Driveline components are removed according to manufacturer specifications, workplace procedures and safety requirements, and without causing damage to components or systems 2.3 Driveline components are inspected for faults according to manufacturer specifications, workplace procedures and safety requirements 2.4 Results of driveline tests are reported according to workplace procedures
3. Refit and adjust driveline components	3.1 Driveline components are examined for serviceability prior to commencing the refitting procedures 3.2 Driveline serviceable components are refitted according to manufacturer specifications, workplace procedures and safety requirements 3.3 Driveline is lubricated and adjusted according to manufacturer specifications, workplace procedures and safety requirements 3.4 Driveline is checked for correct assembly and operation according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking driveline specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when recording parts and material used.
Oral communication skills to:	clarify instructions, report test findings, and make repair recommendations.
Numeracy skills to:	- use basic mathematical operations, including addition and subtraction, to measure driveline components, calculate distances, driveline angles, tolerances and deviations from manufacturer specifications - calculate and convert metric and imperial systems of measurement - use measuring equipment, including digital protractors.
Technology skills to:	use precision measuring equipment.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - using driveline tools and equipment - lifting and supporting vehicles.
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Unit Mapping Information

Equivalent to AURTTQ2002 Remove and refit driveline components

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURTTQ002 Remove and refit driveline components

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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:

- remove and refit the following driveline components:
 - both drive shafts of a front wheel drive light vehicle
 - drive shaft of a rear wheel drive light vehicle.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to removing and refitting driveline components, including procedures for:
 - using driveline tools and equipment
 - lifting and supporting vehicles
- principles of driveline operation
- construction of drive shafts, including:
 - constant velocity (CV) joints
 - universal joints
- driveline test procedures
- dismantling, assembling and adjusting procedures, including:
 - types and applications of lubricants
 - methods of fitting retaining clips to CV joints.

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 driveline components that they have removed and refitted, 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:

- workplace location or simulated workplace
- workplace instructions
- vehicle driveline specifications
- driveline components specified in the performance evidence
- tools, equipment and materials for removing and refitting driveline components.

Links

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