



Australian Government

AURTTQ103 Inspect and service 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

Application

This unit describes the skills and knowledge required to inspect and service vehicle drive shafts. It involves preparing for the task, inspecting the drive shaft for damage or abnormal wear, reporting the inspection findings, servicing and adjusting the drive shaft, and completing workplace processes and documentation.

This unit applies to those working in the automotive service and repair industry. The drive shafts include those of agricultural machinery, heavy commercial vehicles, light vehicles, mobile plant machinery, motorcycles or outdoor power equipment. The servicing operations undertaken may vary based on the occupation of the learner.

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

Unit Sector

Mechanical Miscellaneous Technical - Driveline and Final Drives

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to inspect and service drive shaft	1.1 Identify job requirements from workplace instructions 1.2 Obtain and interpret servicing information 1.3 Identify hazards associated with the work, assess potential risks and implement control measures in line with workplace policies and procedures 1.4 Identify tools and equipment required for servicing activity and establish serviceability according to workplace procedures
2. Inspect drive shaft	2.1 Carry out inspection according to manufacturer

ELEMENTS	PERFORMANCE CRITERIA
	specifications, workplace procedures, workplace health and safety and environmental requirements 2.2 Compare inspection results with manufacturer specifications 2.3 Report inspection findings for necessary repairs according to workplace procedures
3. Service drive shaft	3.1 Carry out service and adjustments according to manufacturer specifications, workplace procedures, workplace health and safety and environmental requirements 3.2 Carry out post-service testing according to workplace procedures
4. Complete work processes	4.1 Carry out final inspection to ensure work meets workplace expectations and confirm vehicle or machinery is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Reading	Locates information from manufacturer and workshop literature when seeking service procedures and specifications relating to drive shafts.
Oral communication	Clarifies instructions.
Numeracy	- Measures components and use basic mathematical operations, including addition and subtraction - Calculates deviations and tolerances from manufacturer specifications.
Problem solving	Refers to problems outside area of responsibility to appropriate person.

Unit Mapping Information

Supersedes and is equivalent to AURTTQ003 Inspect and service drive shafts.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURTTQ103 Inspect and service drive shafts

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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:

- inspect and service the drive shafts of at least two different vehicles or machinery.

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 inspect and service drive shafts, including:
 - vehicle manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to inspect and service drive shafts, including:
 - establishing the 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 inspecting and servicing drive shafts, including procedures for:
 - working with rotating shafts
 - handling lubricants
- environmental requirements relating to inspecting and servicing drive shafts
- identification of drive shaft components, including:
 - single and multi-piece shafts
 - universal joints

- rubber type couplings
- slip joints
- support bearings
- constant velocity joints
- types and applications of drive shaft lubricants
- inspection procedures for drive shafts, including:
 - component wear or damage
 - lubricant leaks
- service and adjustment procedures for drive shafts, including lubricating components as required
- post-service testing procedures of 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 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
- two different vehicles or machinery with drive shafts requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing drive shafts.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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