



Australian Government

AURVTN037 Test vehicle components for correct operation

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to test vehicle components to assess their suitability for future use. It involves preparing for the task, selecting and using tools and equipment, removing, cleaning and testing vehicle components for correct operation, and completing workplace processes and documentation.

It applies to those working in the automotive body repair industry.

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

Competency Field

Vehicle Body

Unit Sector

Technical - Body

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 components	1.1 Job requirements and units and components to be tested are determined from workplace instructions 1.2 <i>Task information</i> is sourced and interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools and equipment, including personal protective equipment

Elements	Performance Criteria
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	(PPE), are selected and checked for safe and correct operation 1.5 Work is planned to identify disassembly and testing methods, minimise waste, and use time efficiently
2. Disassemble components	2.1 Components are disassembled according to workplace procedures, manufacturer specifications, and <i>safety and environmental requirements</i> 2.2 Disassembled components are checked for damage or wear against manufacturer specifications
3. Clean components	3.1 Cleaning procedure is determined from manufacturer specifications, safety data sheets (SDS), and workplace procedures 3.2 Components are cleaned using approved cleaning products, materials and equipment according to safety and environmental requirements
4. Test components	4.1 Component is tested to determine correct operation and quality standard 4.2 Repair or replacement of component is determined according to test results and workplace procedures
5. Complete work processes	5.1 Final inspection is made to ensure work meets workplace expectations and manufacturer specifications, and components are presented ready for use 5.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 5.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 5.4 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 specifications and relevant information efficiently.

Skills	Description
Writing skills to:	legibly and accurately fill out workplace documentation.
Oral communication skills to:	- clarify instructions and procedures - clearly report quality issues, non-conformances and job outcomes.
Numeracy skills to:	- identify and interpret component part numbers - interpret manufacturer specifications and calculate tolerances and non-conformance from tests undertaken.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Problem solving skills to:	identify non-conformance and quality issues after dismantling and testing vehicle components.

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>Task information</i> must include:	- workplace procedures - manufacturer component specifications and procedures - cleaning agent SDS.
<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - selecting and using PPE - using SDS for cleaning agents - handling and storing vehicle components - using tools and equipment - using chemicals and cleaning agents - environmental requirements, including procedures for trapping, storing and disposing of chemicals, cleaning agents and waste materials.

Unit Mapping Information

Equivalent to AURVTN2037 Disassemble and test vehicle units and 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 AURVTN037 Test vehicle components for correct operation

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- disassemble, clean and test the following components:
 - three different vehicle mechanical components
 - three different vehicle electrical components, including head light assembly.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to testing vehicle components for correct operation, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using safety data sheets (SDS) for cleaning agents
 - handling and storing vehicle components
 - using tools and equipment
 - using chemicals and cleaning agents
- environmental requirements, including procedures for trapping, storing and disposing of chemicals, cleaning agents and waste materials
- location and content of service and repair manuals
- component checking and testing methods and techniques, including:
 - component disassembly and reassembly
 - cleaning methods
- procedures for final inspection of vehicle component operation.

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 vehicle units and components that they have tested, 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
- vehicle service and repair manuals
- PPE required to remove and test vehicle components
- SDS for cleaning agents
- cleaning agents
- vehicle components that require testing for correct operation, including:
 - three different vehicle mechanical components
 - three different vehicle electrical components, including head light assembly
- tools, equipment and materials appropriate for testing vehicle components.

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