



Australian Government

AURVTN137 Test vehicle components for correct operation

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 test vehicle components to assess their suitability for future use. This unit 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.

The unit 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.

Unit Sector

Vehicle Body Technical - Body

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 test components	1.1 Determine job requirements and units and components to be tested from workplace instructions 1.2 Source and interpret task information 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check tools and equipment for safe and required operation 1.5 Plan work to identify disassembly and testing methods, minimise waste, and use time efficiently
2. Disassemble components	2.1 Disassemble components according to workplace procedures, manufacturer specifications, and safety and environmental requirements 2.2 Check disassembled components for damage or wear against

ELEMENTS	PERFORMANCE CRITERIA
	manufacturer specifications
3. Clean components	3.1 Determine cleaning procedure from manufacturer specifications, safety data sheets (SDS), and workplace procedures 3.2 Clean components using approved cleaning products, materials and equipment according to safety and environmental requirements
4. Test components	4.1 Test component to determine required operation and quality standard 4.2 Determine repair or replacement of component according to test results and workplace procedures
5. Complete work processes	5.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 5.2 Clear work area and dispose of or recycle materials according to workplace procedures 5.3 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.
Numeracy	- Identifies and interprets component part numbers - Interprets manufacturer specifications and calculates tolerances and non-conformance from tests undertaken.
Oral communication	- Clarifies instructions and procedures - Reports quality issues and job outcomes clearly.
Problem solving	Identifies non-conformance and quality issues after dismantling and testing vehicle components.

Unit Mapping Information

Supersedes and is equivalent to AURVTN037 Test vehicle components for correct operation.

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 AURVTN137 Test vehicle components for correct operation

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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:

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

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 test vehicle components for correct operation, including:
 - information provided by customer and supervisors
 - manufacturer component specifications and procedures or equivalent documentation
 - cleaning agent safety data sheets (SDS)
- workplace procedures required to test vehicle components for correct operation, including:
 - establishing 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
- work health and safety (WHS) 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

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.

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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