



Australian Government

AUMATA007 Conduct vehicle performance tests

Release: 1

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Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMATA4007 Conduct simulated or road performance test

Application

This unit describes the performance outcomes required to carry out pre-road test checks on vehicles, as well as final simulated or on-road performance tests.

It applies to those in an automotive manufacturing environment.

Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Competency Field

Common

Unit Sector

Technical

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 italicised text is used, further information is detailed in the range of conditions section
1. Prepare for the job	1.1 <i>Workplace procedures</i> are identified 1.2 Vehicle to be tested is positioned and secured to prevent injury or damage 1.3 Vehicle fuel and lubricant levels are checked 1.4 Driver safety items are checked according to workplace procedures to ensure they are functional and suitable to vehicle specifications 1.5 Temporary registration plates are fitted

Elements	Performance Criteria
	1.6 Pre-inspection checklist is completed
2. Test vehicle performance	2.1 Vehicle is secured on chassis dynamometer for testing, if applicable 2.2 Vehicle is driven and tested on-road according to state road regulations 2.3 Vehicle is tested under load conditions 2.4 Adjustments are made if necessary during on-road tests
3. Respond to faults	3.1 Vehicle performance test reports are completed, with faults recorded and reported to appropriate personnel 3.2 Vehicle quarantine procedures are implemented to ensure faulty vehicles are not returned to customer 3.3 Vehicle is placed in quarantine based on type of faults to be rectified
4. Rectify faults	4.1 Vehicle reports of performance test results are used to identify faults 4.2 Tools and equipment are selected and used to conduct rectification 4.3 Faults are rectified so that vehicle performs to manufacturer specifications and complies with roadworthy requirements
5. Complete work processes	5.1 Vehicle is retested to ensure faults have been rectified and vehicle performs to manufacturer specifications 5.2 Compliance and vehicle identification plates are fitted, if applicable 5.3 Final inspection and dispatch form are completed and submitted to appropriate personnel 5.4 Job rectification report is completed

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skills	Description
Reading skills to:	- interpret vehicle performance specifications - analyse vehicle quality inspection reports - interpret vehicle operating instructions.
Writing skills to:	- complete test and rectification reports - complete fault rectification plans

Skills	Description
	record vehicle faults.
Oral communication skills to:	inform management and customers of vehicle faults and repair requirements.
Numeracy skills to:	- analyse vehicle performance graphs and specifications - identify vehicle component part numbers.
Initiative skills to:	adapt to changing employment conditions and contexts.
Planning and organising skills to:	prepare vehicle for testing and plan its performance test.
Problem-solving skills to:	access, interpret and apply workplace procedures and work instructions, particularly to ensure faulty vehicles are quarantined.
Technology skills to:	operate vehicle operating systems.

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>Workplace procedures</i> must include:	- road testing - using test equipment - operating vehicles - work health and safety (WHS) requirements - workplace recording and reporting.
<i>Testing</i> must include:	- braking - gauges - lights - rattles - ride - squeaks - steering - turn indicators - vibrations - warning lights.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bd587669-08b3-4cd5-85f0-f9fa0c6304c1>

Assessment Requirements for AUMATA007 Conduct vehicle performance tests

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Performance Evidence

Before competency can be determined, individuals must have competently tested vehicle performance on a minimum of three occasions.

Individuals must demonstrate they can:

- follow workplace procedures relating to performance testing a vehicle
- comply with work health and safety (WHS) requirements relating to conducting vehicle performance tests
- communicate test requirements and results with co-workers
- identify faults in, and non-conformance of, vehicle components and systems
- conduct adjustments and repairs on vehicles to rectify faults and adjust to vehicle specifications
- read quality inspection reports and identify performance faults
- confirm that performance complies with vehicle specifications
- use vehicle performance testing equipment
- report performance test results.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements relating to conducting vehicle performance tests
- vehicle performance testing procedures and practices
- vehicle specifications
- workplace communication methods during performance testing
- workplace quality requirements relevant to vehicle performance testing
- types and purpose of test equipment
- vehicle components and their purpose
- state road regulations
- vehicle manufacturer operating procedures

- workplace recording and reporting procedures.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements and driver license requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vehicles on which they have conducted performance tests, e.g. performance test 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 manufacturing workplace or simulated workplace
- vehicles for testing
- vehicle specifications
- documentation covering:
 - pre-inspection checklists
 - inspection and dispatch forms
 - work and test instructions
 - performance test procedures
 - performance test results
 - fault indicators
 - retesting and release processes
- vehicle operating instructions
- workplace vehicle performance testing procedures.

Links

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