



Australian Government

AUMFTA005 Analyse test vehicles for research purposes

Release: 1

AUMFTA005 Analyse test vehicles for research purposes

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMFTA4005 Analyse a test vehicle for research purposes

Application

This unit describes the performance outcomes required to analyse a test vehicle or prototype vehicle for the purpose of testing the vehicle and its components.

It applies to those in an automotive and related component 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

Manufacturing - Passenger Vehicle

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 vehicle	1.1 <i>Workplace procedures</i> are identified and followed 1.2 Research objectives, work plans and check lists are identified for test 1.3 <i>Instructions</i> and <i>analysis parameters</i> are interpreted 1.4 Vehicle system and component monitoring and testing equipment are installed and checked for operation according to workplace and manufacturer procedures 1.5 Vehicle is checked for safe and correct operation within the

Elements	Performance Criteria
	parameters of the test plan
2. Operate and monitor vehicle	2.1 Vehicle is operated in line with test requirements 2.2 Performance of vehicle during test is monitored 2.3 Observations are recorded according to workplace procedures and research objectives
3. Complete test documentation	3.1 Running observations are reviewed and report is prepared according to workplace procedures 3.2 Final analysis and test findings are reported to management and engineering personnel according to workplace procedures 3.3 Vehicle records are maintained and updated information is processed according to work instructions and workplace procedures

Foundation Skills

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

Skills	Description
Reading skills to:	- interpret research objectives relating to vehicle test - interpret vehicle specifications and test results - interpret workplace and manufacturer instructions, schedules, reports, manuals and work plans.
Writing skills to:	- prepare test plan - complete records of test results and outcomes.
Oral communication skills to:	- discuss vehicle test results with relevant personnel - communicate test results between team members and management - communicate work plans, schedules and analysed vehicle information to team members of varying technical backgrounds.
Numeracy skills to:	- interpret vehicle performance against manufacturer specifications - determine schedule timelines - use test equipment.
Digital literacy skills to:	use electronic test equipment and computer testing programs.
Initiative skills to:	adapt to different vehicle models that require testing.
Planning and organising skills to:	- manage testing times - plan, prepare and organise work priorities.

Problem-solving skills to:	• solve problems, particularly in teams, paying attention to performance indicators that reflect changed circumstances • comply with relevant workplace procedures and test instructions.
----------------------------	---

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:	• quality standards • recording and reporting • use of equipment • WHS requirements.
<i>Instructions</i> must include:	• job sheets, work plans and specifications • manufacturer and workplace instructions • use and operation of testing tools and equipment • workplace procedures.
<i>Analysis parameters</i> must include:	• operational performance • test designers.

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 AUMFTA005 Analyse test vehicles for research purposes

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMFTA4005 Analyse a test vehicle for research purposes

Performance Evidence

Before competency can be determined, individuals must have competently analysed a test vehicle for research purposes on a minimum of three occasions.

Individuals must demonstrate they can:

- comply with work health and safety (WHS) requirements and workplace procedures when testing vehicles for research purposes
- prepare a vehicle for test or trial
- perform test or trial, operating a test vehicle for research purposes
- communicate test findings with appropriate personnel
- prepare reports of results
- achieve test objectives and quality goals.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements and workplace procedures relating to testing vehicles for research purposes
- vehicle test or trial activities
- test tools, equipment and procedures
- vehicle performance characteristics and specifications
- recording and reporting processes for test findings.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements and hold relevant vehicle operating licences.

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 worked, e.g. work sheets.

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
- personal protective equipment (PPE) appropriate for vehicle testing procedures
- vehicle test or trial instructions
- vehicle specifications
- test tools and equipment
- vehicles for test or trial.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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