



Australian Government

AUMFTA006 Develop research reports on vehicle design, development and production

Release: 1

AUMFTA006 Develop research reports on vehicle design, development and production

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMFTA5006 Produce research reports

Application

This unit describes the performance outcomes required to carry out research activities, analyse research data, and produce research reports relating to the design, development and production of motor vehicles, in conjunction with engineering personnel.

It applies to those in an automotive manufacturing environment at a specialist technician level.

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

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. Determine research requirements	1.1 Research brief or problem is defined in conjunction with relevant design, engineering, marketing, production or other personnel 1.2 Research processes and requirements are developed from an analysis of available information 1.3 Research processes and requirements are documented and

Elements	Performance Criteria
	validated
2. Conduct research	2.1 Research strategies for use in the research project are identified and evaluated 2.2 Research plan is submitted for approval 2.3 Research activities are conducted 2.4 Collected information is processed and summarised according to the research strategy
3. Evaluate research outcomes	3.1 Research data is analysed 3.2 Research outcomes are structured to address research brief or defined problem 3.3 Specific issues and important additional findings are highlighted and summarised 3.4 Research outcomes are discussed with relevant personnel and appropriate adjustments are made to findings based on feedback
4. Document and distribute research outcomes	4.1 Research outcomes are summarised 4.2 Research documentation is completed, saved and stored for future reference 4.3 Research documentation is distributed to specified personnel

Foundation Skills

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

Skills	Description
Reading skills to:	- interpret research information on workplace objectives, vehicle market trends and safety requirements - interpret research data for evaluation and trials.
Writing skills to:	document new design requirements, concept restraints, trials, tests and modification outcomes.
Oral communication skills to:	- review the design concept with appropriate personnel - review and evaluate concept sketches with engineering, marketing and other appropriate personnel - evaluate manufacturing methods with production engineering, marketing and other appropriate personnel.
Numeracy skills to:	- calculate critical dimensions and interpret data - estimate required materials, components and related costs.

Teamwork skills to:	• apply teamwork to a range of situations, including conducting research.
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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 AUMFTA006 Develop research reports on vehicle design, development and production

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Performance Evidence

Before competency can be determined, individuals must have competently prepared research reports on vehicle design, development and production on a minimum of three occasions.

Individuals must demonstrate they can:

- comply with workplace research standards
- successfully complete a range of research reports
- complete related workplace research documentation.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- types and limitations of quantitative and qualitative research methods
- workplace procedures and work plans to develop vehicle research reports
- mechanical, electrical and fabrication designs
- operation and selection of computer hardware and software applications and systems
- quality control systems, including performance indicators
- procedures for recording, reporting and maintaining organisational records and information.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor 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 research documentation that they have developed, e.g. research reports.

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
- sources of information from which to determine customer needs, competitor products, workplace objectives, fashion trends and safety requirements
- workplace procedures relating to developing research reports
- materials and equipment necessary to produce research reports.

Links

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