



Australian Government

Assessment Requirements for AUMFTM002 Create new product designs

Release: 1

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Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMFTM5002 Create new product designs

Performance Evidence

Before competency can be determined, individuals must have competently created new product designs on a minimum of three occasions.

Individuals must demonstrate they can:

- comply with relevant legislation, regulations, standards, codes of practice, safe work practices and workplace procedures for creating new product designs
- create initial design concepts within constraints
- modify initial design concepts according to feedback
- produce design drawings of components and sub-assemblies
- identify and evaluate the manufacturing method of the new product and perform trials
- modify product design as necessary and conduct further tests
- document the design process of the new product.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- principles and methods of design
- methods for identifying design concept constraints, and strategies for dealing with them
- methods for creating design concepts, including design sketches
- methods of quantifying design concepts, including calculating:
 - dimensions of design
 - type of materials and material specifications
 - product cost estimates, process time and cost-benefit of new product
- methods of incorporating work health and safety (WHS) requirements into new product designs
- testing procedures for new product designs
- design process documentation, records and reports.

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 designs that they have created, e.g. documentation of product design process.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- workplace or simulated workplace suitable to design products
- drawing and design equipment
- tools, equipment and machinery required for the production process of motor vehicles or components
- design instructions and plans
- sources of information from which to determine customer needs, competitor products, workplace objectives, fashion trends and safety needs.

Links

Companion Volume implementation guides are found in VETNet -

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

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