



Australian Government

Assessment Requirements for MSFFDM5005 Design product suitable for mass production

Release: 1

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Modification History

Release 1. Unit code and title changed. Application changed. Elements and Performance Criteria changed and updated to active voice. Range of Conditions removed and relevant information moved to Assessment Requirements. Assessment Requirements changed to remove duplication with Performance Criteria. Supersedes and is not equivalent to MSFFDT5012 Design for mass production.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- successfully design, or redesign, products suitable for mass production for one major and two minor projects, and in doing so:
 - apply research, analytical and mathematical skills to the identification and selection of materials and the selection of appropriate production and construction techniques for products
 - create innovative designs that satisfy the agreed parameters and consider, but are not limited by, other historical or contemporary influences
 - prepare and work through a design brief taking into account the requirements of mass production to fulfil the design brief and oversee a mass production run
 - review information provided and creatively generate proposals for a furnishing or similar product
 - apply elements and principles of design to designing for mass production in accordance with a design brief
 - evaluate the variations in costs associated with different production methods and production runs of different sizes.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace and site standards, requirements, policies and procedures for designing for mass production
- environmental protection requirements
- established communication channels and protocols
- relevant problem identification and resolution
- elements and principles of design and their relationship with mass production practices, including:
 - ergonomics and aesthetic values
- supply chain management

- approaches to outsourcing arrangements
- cost–benefit analysis methods
- workplace resource audit techniques
- types of tools and equipment and procedures for their safe use, operation and maintenance
- characteristics of materials, products and defects and their relevance in a mass production environment
- set-up and operation of furniture-making and related equipment
- relevant computer programs, software and digital communication tools
- product machining, assembly and finishing techniques
- sketching and drawing techniques
- storage systems and labelling relating to the packaging and dispatch of mass-produced items
- procedures for the recording, reporting and maintenance of workplace records and information
- appropriate mathematical procedures for estimation and measurement.
- work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - access to mass production operations facilities and/or personnel
 - design software that reflects current industry standards

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>