



Australian Government

Assessment Requirements for MSFFDM5003 Design product suitable for batched or limited 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 content moved to the Assessment Requirements. Assessment Requirements changed. Supersedes and is not equivalent to MSFFDM5005 Design batch or limited production item of furniture.

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 products suitable for batched or limited production runs (including one-off items) for one major and two minor projects, and in doing so:
 - analyse potentially suitable materials to use in the work process and ensure these are acceptable for both client needs and batched or limited production run manufacturing
 - follow industry best-practice in design briefing coverage, including budget, timelines, product measurements and other specifications, production needs and methods and potential external collaborators or partners
 - follow workplace best-practice in communicating with both internal and external clients and collaborators to ensure transparency of process and that clients' needs are met
 - develop and present final product proposals that balance the limitations and opportunities of batched and limited production for products with client functional and aesthetic needs, including cost-effective use of materials and tools or equipment
 - evaluate the variations in costs associated with different production methods and production runs of different sizes
 - lead others and work effectively in a team to improve design quality and outcomes
 - recognise dependencies in the workplace and across the wider production team (which may include external collaborators) and use cooperative approaches to optimise workflow and productivity.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- historical and contemporary art and design styles and movements
- design methodologies
- ergonomic and anthropometric standards
- visual aesthetics of products being designed
- ideas generation and conceptual development techniques, including:

- suspending belief
- looking for gaps of need alternatives
- daydreaming
- creative leaping
- filaments
- brainstorming
- six thinking hats
- asking questions of norms and beliefs
- current market segment products, and suitable online and offline sources of inspiration and possible design elements that will meet client needs
- current ethical issues in society affecting makers and designers
- all aspects of the product design, including:
 - shape and dimension
 - materials
 - colour
 - texture, patterns and relief
 - the site and positioning of the end product
 - ability to produce in batches or limited production runs
 - ability to adapt the design to different production methods or volumes
- production methodologies of furniture (or similar) manufacturers
- production techniques for products based on materials selection
- materials and finishes used to produce products
- costing techniques
- design-based softwares and other tools suitable for presenting design briefs
- established workplace communication channels and protocols including document control methods
- relevant work health and safety legislation, regulations, standards and codes of practice relevant to the design and manufacture of products
- 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:
 - 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>