



Australian Government

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 MSFFDT5005 Design batch or limited production item of furniture.

Application

This unit describes the skills and knowledge required to design products suitable for batched or limited production (including one-off items) in a furniture-making or similar operation. It includes the considerations required to enable production of further batches, including details and fittings being produced with jigs and fixtures, and assessing the production methods required for particular materials.

This unit applies to individuals working in a manufacturing or design studio environment who design products with production methods as a consideration, working either alone or as part of an internal or external team.

No licensing or certification requirements apply to this unit at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Design practice

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Research product needs	1.1 Identify parameters affecting the design of product from client or end recipient and other information sources 1.2 Identify and record product functional needs from client or end recipient following industry best-practice methods 1.3 Investigate similar products in market and design elements from relevant sources 1.4 Assess materials for production-method limitations from materials specifications and client requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Identify and record visual/aesthetic needs of product from client or end recipient following industry best-practice methods 1.6 Identify and record relevant ethical considerations from client or end recipient and other potential collaborators 1.7 Identify and record ergonomic and anthropometric needs from client or end recipient and following industry standards 1.8 Prioritise product needs following industry best-practice methods 1.9 Identify and document relevant batched and limited production-run methods, technologies and equipment that could be applied or used, and work health and safety considerations, based on identified parameters and needs
2. Prepare information for design brief	2.1 Review and clarify product needs, parameters and other factors with client or end recipient 2.2 Report on product needs, including design and production method opportunities, using suitable reporting methods and incorporating client or end recipient feedback 2.3 Identify and record needs that cannot be met and negotiate changes with client or end recipient following industry best-practice methods 2.4 Clarify and agree on outcomes of design process with client or end recipient following industry best-practice methods 2.5 Prepare initial brief following industry best-practice methods
3. Generate ideas in response to design brief	3.1 Analyse product and client needs and integrate into generation of ideas using suitable ideation methods 3.2 Present initial ideas based on design brief and in suitable format 3.3 Refine ideas through review and reworking, both individually and collaboratively, using industry best-practice methods 3.4 Present final ideas in a manner suitable for audience
4. Evaluate and develop design proposals	4.1 Evaluate each design idea in context of design brief and suitability for batched or limited production runs, and record results 4.2 Select design proposal/s for further development that best meet requirements 4.3 Seek feedback on design proposals using suitable methods 4.4 Complete design proposals in response to evaluation feedback
5. Present product	5.1 Prepare product proposals for presentation to client or end recipient

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
proposals to client or end recipient	in accordance with industry best-practice methods 5.2 Ensure presentation arrangements are made, checked and confirmed in accordance with industry best-practice methods 5.3 Present design proposals to client or end recipient in accordance with industry best-practice methods 5.4 Gather, analyse and confirm client feedback in accordance with industry best-practice methods 5.5 Complete design proposals with client feedback and batched or limited production methods and limitations incorporated
6. Produce final product proposal information	6.1 Finalise and document product details including production methods, in accordance with industry best-practice methods 6.2 Document visual aspects of product proposal in accordance with industry best-practice methods 6.3 Document parts details relevant to batched or limited production of product and in accordance with industry best-practice methods 6.4 Document batched or limited production run manufacturing methods in manner suited to place of manufacture and materials specifications 6.5 Ensure all other relevant details are recorded in accordance with industry best-practice methods 6.6 Ensure product proposal addresses work health and safety and other related requirements 6.7 Review proposal process with team members to improve design quality and outcomes

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Numeracy skills to interpret technical and production information.
- Writing and oral communication skills to produce design briefs and document and present manufacturing information.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Supersedes and is not equivalent to MSFFDT5005 Design batch or limited production item of furniture.

Links

Companion Volume implementation guides are found in VETNet -

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