



Australian Government

MSFFDM5004 Design product suitable for high-volume technology services in 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 Assessment Requirements. Assessment Requirements changed. Supersedes and is not equivalent to MSFFDT5006 Design a furniture using high volume technology services (HVTs) in production.

Application

This unit describes the skills and knowledge required to design products suitable for, or with components requiring, production using high-volume technology services in a furniture-making or similar operation. It includes the considerations required to enable the application of these services to produce details and components for the design.

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 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 suitability or requirement for high-volume technology services 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 or aesthetic needs of product from client or end recipient following industry best-practice methods 1.6 Identify and record ethical considerations from client or end recipient and other potential collaborators 1.7 Prioritise product needs following industry best-practice methods 1.8 Identify and document relevant high-volume technology services that could be applied or used, based on identified parameters and needs
2. Prepare information for the 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 high-volume technology service 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 Visually 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 Visually 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 using high-volume technology services, 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 Assess availability and cost of, and access to, proposed high-volume technology services
5. Present product proposals to client	5.1 Prepare product proposals for presentation to client or end recipient in accordance with industry best-practice methods 5.2 Ensure presentation arrangements are made, checked and confirmed

Elements	Performance Criteria
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	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 high-volume technology services 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 high-volume technology services production in manner suited to place of manufacture and materials specifications 6.4 Ensure all other relevant details are recorded in accordance with industry best-practice methods 6.5 Ensure product proposal addresses work health and safety and other related requirements 6.6 Review proposal process 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 MSFFDT5006 Design a furniture using high volume technology services (HVTS) in production.

Links

Companion Volume implementation guides are found in VETNet -

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