



Australian Government

MSFDN4001 Produce drawings from design concepts

Release: 1

MSFDN4001 Produce drawings from design concepts

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers producing manual and computer-aided drawings of furnishing objects from design concepts intended for use in a furnishing industry production or manufacturing environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Furnishing design

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Prepare for the task	1.1	Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work
		1.2	Purpose and operational characteristics of object to be drawn are identified
		1.3	Production materials and methods are identified
2	Establish design requirements and limitations	2.1	Type of drawing to be completed is identified
		2.2	Design concept requirements are established and documented identifying dimensions, angles, shapes and finished size
		2.3	Drawing conventions and specifications to be noted on the drawing are identified

		2.4	Appropriate medium for drawings is identified and selected
3	Quantify and draft initial drawing	3.1	Dimensions are plotted from prototype sketch and documented specifications
		3.2	Dimensional points are connected to match appropriate drawing view
		3.3	Any production notes or special requirements are noted
		3.4	Drawing conventions and specifications are noted on the documentation
4	Complete drawing	4.1	Angles, shapes and dimensions are checked against specifications and concept prototype drawing
		4.2	Adjustments are made to the drawing within scope of authority
		4.3	Drawing is checked for compliance with workplace documentation requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

- Unit context includes:**
- WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent
 - work is carried out in accordance with legislative obligations, environmental legislation, relevant health

	regulations, manual handling procedures and organisation insurance requirements
	• work requires individuals to demonstrate discretion, judgement and problem solving • work is performed with little external assistance and with minimal supervision or direction • drawing is to be undertaken in accordance with established industry and/or enterprise practices and procedures • customers may be internal or external
Drawings include:	• manual and computer-aided processes and two and three-dimensional
Tools and equipment include:	• drafting table • drawing aids • computing equipment and workstation • special lighting conditions
Materials include:	• drawing • computing consumables
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• work procedures/instructions • designer's concept and specifications/instructions • legislation/regulations/codes relevant to the work undertaken • furniture design principles and criteria, including ergonomic requirements • quality and Australian Standards and procedures, and workplace procedures relating to reporting and communication • manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFDN4001B Produce drawings from design concepts

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSFDN4001 Produce drawings from design concepts

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Identify materials used in the work process
- Interpret specifications and measurements in two and three-dimensional form
- Satisfy ergonomic criteria during the drawing process
- Present relevant information within the production drawing using both manual and computer-aided processes and techniques
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage

Knowledge Evidence

- Manual and computer-aided drawing processes and techniques
- Ergonomic principles for furniture design and manufacture
- Presentation standards
- Enterprise or equivalent operating procedures, including procedures for preparing drawings and presenting information
- Relevant regulatory requirements, recognised standards and codes, and industry practices

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
 - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
 - be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.

- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to design concept, specifications, dimensions and drawing equipment.

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