



Australian Government

MSFDN4003 Produce patterns and templates

Release: 1

MSFDN4003 Produce patterns and templates

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers developing patterns and/or templates for production processes by hand, by using appropriate tools and equipment, and by computer-assisted production.

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 and dimension the task	1.1	Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work
		1.2	Customer orders are interpreted to establish required sizes of finished products
		1.3	Size requirements are checked in relation to the production process and finishing capacity of the workplace
2	Plan process	2.1	Material for pattern or template is identified for approximate size and characteristics
		2.2	Required instruments and equipment are identified, located and assembled
		2.3	Drawings and related specifications are interpreted

		2.4	Procedures for using pattern development instruments and tools are checked and equipment is prepared for use
3	Plot dimensions	3.1	Equipment and tools are used following normal workplace procedures
		3.2	Each dimension is measured, exploded and plotted maintaining appropriate angles, arcs and curves
		3.3	Visual inspection and measurements are used to compare pattern dimensions and shapes with drawings and specifications
4	Complete pattern or template	4.1	Pattern or template is completed ensuring that the pattern indicates completion date and original drawing details
		4.2	Required workplace approval of pattern or template is obtained
		4.3	Plans are marked with notations for workplace requirements, including authorship, process or customer requirements, authorisation and any review dates
		4.4	Plans are copied and filed, as required, according to workplace policies and procedures

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 conceptual ability, discretion, judgement and problem-solving skills in the production of patterns or templates • work is performed with little external assistance and with minimal supervision or direction • development of patterns and/or templates is undertaken in accordance with established enterprise procedures and practices • customers may be internal or external
Tools and equipment include:	• computer numeric controlled (CNC) machines • static woodworking machines • relevant hand tools
Materials include:	• manufactured board • solid timbers • composite materials
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• work organisation procedures and practices relating to the production of patterns and/or templates • designer/drawer specifications and instructions • legislation/regulations/codes relevant to the work undertaken • furniture production techniques and criteria, including ergonomic requirements • quality and Australian Standards and procedures

Unit Mapping Information

Supersedes and is equivalent to LMFDN4003B Produce patterns and/or templates

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 MSFDN4003 Produce patterns and templates

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow 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
- Interpret drawings and extrapolate to physical dimensions
- Select appropriate mediums and materials and produce a minimum of three (3) patterns or templates making use of:
 - manufactured board
 - solid timber
 - composite material
- Suggest improvements to pattern and template production and, where authorised, negotiate changes
- 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 and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Company operating procedures, including procedures for pattern and/or template production
- Types, characteristics uses and limitations of pattern/template materials
- Operation requirements of equipment and work systems in own work area
- Competency requirements of the work activities
- 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 drawings, job specifications, information on production/fabrication process, production materials and relevant computer equipment and software.

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