



Australian Government

MSFFM3009 Produce manual and computer-aided production drawings

Release: 1

MSFFM3009 Produce manual and computer-aided production drawings

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers producing manual and computer-aided production drawings.

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

Pre-requisite Unit

Competency Field

Unit Sector

Furniture Making

Elements and Performance Criteria

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Identify object to be drawn	1.1	The purposes and any operational characteristics of object to be drawn are identified
		1.2	Production materials and method are identified
2	Establish drawing criteria and limitations	2.1	Type of drawing to be completed is identified
		2.2	Drawing requirements are established and documented identifying dimensions, angles, shapes and finished sizes
		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	3.1	Dimensions are plotted from criteria and documented

initial drawing		specifications	
		3.2	Dimensional points are connected to match appropriate drawing views
		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 sample
		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.

Scope of drawing:	- is to be limited to that used for manufacture/production purposes and is not to encompass original design concepts - drawing is to be completed using both manual and computer-aided design (CAD) techniques and processes
Unit scope includes:	drawings in metric scale and covering all dimensions of the furniture and furnishings
Calculations include:	manual and with the aid of a calculator
Unit context includes:	work health and safety (WHS) requirements, including legislation, building codes, material safety management systems, hazardous substances and dangerous goods codes,

- and local safe operating procedures
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
 - that prescribed under legislation, regulations and enterprise policies and practices
- Personal protective equipment includes:**
- Information and procedures include:**
- workplace procedures relating to the use of tools and equipment
 - work instructions, including job sheets, cutting lists, plans, drawings and designs
 - workplace procedures relating to reporting and communication
 - manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFM3011B Produce manual and computer-aided production drawings.

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 MSFFM3009 Produce manual and computer-aided production drawings

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Performance Evidence

- Identify the factors and criteria relevant to the drawings
- Apply safety requirements throughout the work sequence, including the use of personal protective clothing and equipment
- Prepare production drawings of furniture/furnishings:
 - covering a scope of at least three (3) products
 - applying both manual and computer-aided techniques and processes
- 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
- Minimise wastage of resources, including materials, time and money
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Furniture design and planning criteria
- Structural geometry
- Measurement techniques and equipment/tools
- Theory and practice of calculations (addition, subtraction, multiplication and division)
- Types, techniques and processes of manual production drawing
- Types of computer-aided drawing equipment, software, techniques and processes
- Conventional signs and markings for drawings

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 information on the subjects for drawing, computer-aided drawing systems, measuring, calculating and recording devices.

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