



**Australian Government**

# **MSFFDT4007 Prepare and present furniture design information**

**Release: 1**

# MSFFDT4007 Prepare and present furniture design information

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency covers preparing and presenting a range of design concepts as solutions to a design brief in accordance with integral design elements and principles in an industry workplace or design studio environment. It involves application of skills and knowledge at a supervisory or equivalent level.

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

## Pre-requisite Unit

## Competency Field

## Unit Sector

Furniture design and technology

## Elements and Performance Criteria

Elements describe the essential outcomes.

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

1	Plan for presentation of design information	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to producing design development sketches and drawings are verified and complied with
		1.2	Design brief is reviewed, confirmed and clarified with appropriate personnel
		1.3	Type and quantity of concepts to be presented are assessed from the design brief
		1.4	Presentation equipment is selected appropriate to work requirements and checked for operational effectiveness in accordance with manufacturer recommendations
		1.5	Communication with others is established and maintained in accordance with WHS requirements

- |   |                                   |     |                                                                                                               |
|---|-----------------------------------|-----|---------------------------------------------------------------------------------------------------------------|
| 2 | Present design information        | 2.1 | Concept sketches are presented as solutions to the design brief and for the audience                          |
|   |                                   | 2.2 | Sketches are represented as ideation drawings and presented using presentation boards and portfolios          |
|   |                                   | 2.3 | Freehand development drawings are incorporated into the presentation to represent the construction and joints |
|   |                                   | 2.4 | Working drawings are presented to represent final measurements and specifications                             |
|   |                                   | 2.5 | Concepts and their elements of design are promoted, explained and evaluated for the audience                  |
|   |                                   | 2.6 | Concepts and their principles of design are promoted, explained and evaluated for the audience                |
|   |                                   | 2.7 | Presentation of design information is made using multimedia and computer-based strategies                     |
| 3 | Present manufacturing information | 3.1 | Maquettes of concepts are presented for discussion and viewing                                                |
|   |                                   | 3.2 | Prototypes or samples are presented for viewing and aesthetic value                                           |
|   |                                   | 3.3 | Sample joints or joining techniques are presented to support the design theory                                |
|   |                                   | 3.4 | Alternative manufacturing techniques are presented and promoted                                               |
|   |                                   | 3.5 | Material options are presented and promoted                                                                   |
|   |                                   | 3.6 | Assembly and finishing techniques and processes are presented and promoted                                    |
|   |                                   | 3.7 | Concept manufacturing process is evaluated and presented using multimedia and computer-based strategies       |

## 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 and analytical ability, discretion, judgement and problem solving
  - customers or suppliers may be internal or external
- Design brief includes:**
- the aims, objectives, milestones for the design project
  - organisational or personal profiles
  - target audience
  - budget
  - timeline
  - consultation requirements
  - colour requirements
  - image requirements
  - function
- Appropriate personnel include:**
- trainers
  - supervisors
  - suppliers
  - clients
  - colleagues
  - managers
- Concepts include:**
- ideas generated to respond to the design brief through both ideation drawings or sketching and written explanation

- Presentation equipment include:**
- presentation boards
  - portfolios
  - photography
  - data projectors
  - video
  - other forms of multimedia
- Sketches include:**
- hand drawn images
  - ideation drawings completed freehand
- Audience includes:**
- suppliers
  - manufacturers
  - private clients
  - colleagues
  - retailers
  - the public
- Ideation drawings include:**
- freehand drawings which represent a product as a story and methodology to the design brief solution
- Freehand development drawings include:**
- isometric
  - oblique
  - perspective
  - orthographic
  - elevation drawings
  - those which explode the parts of the concept sketches and include rough sizes, scale, tones and values
- Working drawings include:**
- drafted technical drawings or drawings produced on computer using computer-aided design (CAD) software packages that contain project specifications
- Specifications include:**
- measurements
  - procedures by which a product is constructed
  - materials to be utilised
- Elements of design include:**
- line
  - shape
  - form (geometric or organic)
  - texture
  - colour
  - function
- Principles of design include:**
- balance
  - proportion (symmetry and asymmetry)
  - harmony
  - contrast
  - pattern
  - movement

- rhythm
  - unity
  - style
  - focus
  - scale
  - dominant
  - sub-dominant
  - subordinate relationship
  - emphasis
  - proximity
  - alignment
  - space
  - anthropometry
  - ergonomics
  - arrangement
  - workload materials handling capacity
  - skills available
  - equipment capabilities
  - aesthetic relations
  - tension
  - development methods
- Computer-based strategies include:**
- PowerPoint presentations
  - CAD demonstrations
  - written presentations
  - other scenarios utilising different software applications
- Maquette includes:**
- a miniature version of the intended final product to establish if the elements and principles of design have been achieved
- Prototypes or samples include:**
- a full size replica of the intended product outcome based on concept sketches and freehand development drawings, produced from stiff cardboard, scrap timber or moulding clay
- Manufacturing processes include:**
- methods by which the product will be produced with steps that entail working from drawings and specifications, producing components utilising machine operations, assembly of the components and finishing techniques
- Materials include:**
- timber (native and imported)
  - man-made timber products
  - plastic
  - metal
  - alloys
  - stones
  - glass

- textiles
  - fibreglass
  - foam
  - cardboard
  - paper products
  - any other manipulable substance
- Assembly processes include:**
- nailing
  - gluing
  - screwing
  - welding
  - pressing
  - sewing
  - bonding
  - jointing
  - connecting various materials
- Finishing includes:**
- paints
  - waxes
  - lacquers
  - stains
  - pigments
  - oils
  - plastic coatings
- Personal protective equipment includes:**
- that prescribed under legislation, regulations and enterprise policies and practices
- Information and procedures include:**
- work procedures/instructions
  - manufacturer specifications and instructions
  - standard forms of workplace process and procedures
  - organisation work specifications and requirements
  - legislation, regulations and codes of practice
  - quality and Australian Standards and procedures

## Unit Mapping Information

Supersedes and is equivalent to LMFFDT4009A Prepare and present furniture design information

## **Links**

Companion Volume implementation guides are found in VETNet -

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