



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

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| 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.

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| Unit context includes: | <ul style="list-style-type: none">• 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: | <ul style="list-style-type: none">• 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: | <ul style="list-style-type: none">• trainers• supervisors• suppliers• clients• colleagues• managers |
| Concepts include: | <ul style="list-style-type: none">• 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>

Assessment Requirements for MSFFDT4007 Prepare and present furniture design information

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Performance Evidence

- Collect, organise and understand information related to furnishing work instructions and work orders and safety procedures
- 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
- Prepare and present design information in accordance with the concepts and design brief to a prospective client interested in buying a design for manufacturing purposes, and effectively apply design elements and principles to the presentation
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Lead others and work effectively to improve production quality and outcomes
- 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
- Use workplace technology related to the coordination, including communication equipment, time and management aids and other measuring devices
- 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 and encourage participation of employees in the planning of work activities and changes

Knowledge Evidence

- State or territory WHS legislation, regulations, standards and codes of practice relevant to preparing and presenting design information
- Organisational and site standards, requirements, policies and procedures for preparing and presenting design information
- Environmental protection requirements
- Established communication channels and protocols
- Relevant problem identification and resolution techniques
- Elements and principles of design

- Ergonomics and aesthetic values
- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Characteristics of materials, products and defects
- Set-up and operation of equipment
- Relevant computer programs
- Presentation techniques and equipment
- Product assembly techniques
- Sketching and drawing techniques
- Storage systems and labelling
- Procedures for the recording, reporting and maintenance of workplace records and information
- Appropriate mathematical procedures for estimation and measurement

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 materials, equipment and design specifications relevant to preparing and presenting design information.

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