



Australian Government

Department of Education, Employment and Workplace Relations

LMFFDT4012A Produce ideation drawings

Revision Number: 1

LMFFDT4012A Produce ideation drawings

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit specifies the outcomes required to produce ideation drawings from a concept and design brief, to capture the spirit of a product visually, using integral design elements and principles.
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Application of the Unit

Application of the unit	This unit supports the attainment of skills and knowledge required for competent workplace performance in furnishing operations of all sizes. Production of ideation drawings applies to an industry workplace or design studio environment and involves application of skills and knowledge at a supervisory equivalent level. These skills and knowledge are to be used within the scope of the individual's job and authority.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan for production of ideation drawings	1.1. Applicable OHS, legislative and organisational requirements relevant to producing ideation drawings are verified and complied with 1.2. Design brief is reviewed, confirmed and clarified with appropriate personnel 1.3. Type and quantity of ideation drawings to be produced are assessed from the design brief 1.4. Drawing equipment is selected appropriate to work requirements and checked for operational effectiveness in accordance with manufacturers recommendation 1.5. Communication with others is established and maintained in accordance with OHS requirements
2. Produce ideation drawings	2.1. Multiple concept drawings are produced in keeping with the design brief 2.2. Images are represented as thumbnails exploring design ideas and to provide a sense of feeling for the product and materials used 2.3. Human figures are included in the drawings to provide a sense of balance 2.4. Scale ideation drawings are produced to roughly represent the detail of joints, sections or product details 2.5. Specifications are added to the ideation drawings as reference points for working drawings 2.6. Ideation drawings are assessed for their elements of design 2.7. Ideation drawings are assessed for their principles of design 2.8. Ideation drawings are modified according to the design assessment and design brief requirements 2.9. Ideation drawing faults are recorded and reported to the appropriate personnel

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- draw designs
- make presentations
- source information
- collect, organise and understand information related to design requirements
- maintain accurate records
- communicate ideas and information
- sequence operations
- carry out work according to ohs practices
- maintain current knowledge of interior decoration and design techniques.

Required knowledge

- State or Territory OHS legislation, regulations, standards and codes of practice relevant to the full range of processes for producing ideation drawings
- organisational and site standards, requirements, policies and procedures for producing ideation drawings
- environmental protection requirements
- established communication channels and protocols
- problem identification and resolution
- 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
- setup and operation of equipment
- computer programs
- product assembly techniques
- sketching and drawing
- storage systems and labelling
- procedures for the recording, reporting and maintenance of workplace records and information
- appropriate mathematical procedures for estimation and measurement.

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- Effectively produce ideation drawings to establish the sense and look of a product in story form, working through the design process in readiness for the final working drawings
- Effectively apply design elements and principles to the ideation drawings
- Effectively produce ideation drawings in accordance with the design brief
- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for producing ideation drawings
- Communicate effectively and work safely with others in the work area

Context of and specific resources for assessment

- The application of competency is to be assessed in the workplace or simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to producing ideation drawings
 - specifications and work instructions

Method of assessment

- Assessment must satisfy the endorsed assessment guidelines of the Furnishing Industry Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge
- Assessment methods must be by direct observation of

EVIDENCE GUIDE	
	tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application • Assessment may be applied under project related conditions (real or simulated) and require evidence of process • Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances • Assessment may be in conjunction with assessment of other units of competency
Guidance information for assessment	

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements	- are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety policies and procedures - requirements may include but not be limited to the use of personal protective equipment and clothing, fire fighting equipment, first aid equipment, hazard and risk control and elimination of hazardous materials and substances, manual handling, including lifting and carrying
Legislative requirements	- are to be in accordance with applicable legislation from all levels of government that affect organisational operation - requirements may include but not be limited to award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, OHS, the environment, equal opportunity, anti-discrimination, relevant industry codes of practice, duty of care and heritage
Organisational requirements	may include but not be limited to legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage, environmental management (waste disposal, recycling and re-use guidelines)
Design brief	is to include the aims, objectives, milestones for the design project, the point of reference for everyone, elements and principles of design and may include organisational or personal profiles, aims, target audience,

RANGE STATEMENT	
	budget, timeline, consultation requirements, colour requirements, image requirements and function
Appropriate personnel	may include but not be limited to trainers, supervisors, suppliers, clients, colleagues and managers
Ideation drawings	are to include freehand drawings which represent a product as a story and methodology to the design brief solution. These are often drawn as thumbnail sketches
Drawing equipment	may include but not be limited to drawing tables, colouring pencils, pens, pastels, paints, pencils, pens, technical drawing pens, computers and computer aided drafting (CAD) software packages
Communication	may include verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
Concepts	are to include ideas generated to respond to the design brief through both ideation drawings or sketching and written explanation
Thumbnails	are to include a series of quick line drawings which explore and demonstrate the design ideas in basic terms, these are completed in freehand and can also be used to provide detail of parts in rough scale
Specifications	are to include the measurements, procedures by which a product is constructed and materials to be utilised
Working drawings	may include but not be limited to drafted technical drawings or drawings produced on computer using CAD software packages. These usually contain project specifications
Elements of design	may include but not be limited to line, shape, form (geometric or organic), texture, colour, and function
Principles of design	may include but not be limited to balance, proportion (symmetry, asymmetry), harmony,

RANGE STATEMENT	
	contrast, pattern, movement, rhythm, unity, style, focus, scale, dominant, sub dominant or subordinate relationship, emphasis, proximity, alignment, space, anthropometry, ergonomics, arrangement, workload, materials handling capacity, skills, control, equipment capabilities, aesthetic relations, tension and development methods
Records and reports	may include but not be limited to the sketching and drawing method, product type, size, inspection and labelling outcomes, storage locations, quality outcomes, hazards, incidents or equipment malfunctions

Unit Sector(s)

Unit sector	Furniture design and technology.
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		