



Australian Government

MSFFDT5015 Work collaboratively on a design project

Release: 1

MSFFDT5015 Work collaboratively on a design project

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers working collaboratively on a design project from initial agreement to fulfilment and delivery of the final product, applying integral design elements and principles. It applies to an industry workplace or design studio environment and involves application of skills and knowledge at a managerial 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 project collaboration	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to collaborating on a design project are verified and complied with
		1.2	Project requirements are agreed with client, confirmed and clarified
		1.3	Communication with others is established and maintained with all involved in the design process
		1.4	Potential collaborators are scrutinised and confirmed based on displayed expertise potential
		1.5	End users and other interested parties are involved in the collaboration
2	Work	2.1	Methods of collaboration are negotiated and followed

	collaboratively on projects	2.2	Project objectives are researched, a design brief developed and instigated
		2.3	Ideas for concept development are shared and worked through
		2.4	Concepts are critiqued and final outcomes agreed upon in accordance with the elements and principles of design
		2.5	Management systems are set in place, plan developed and quality control measures adopted for the project
		2.6	Type and quantity of material to be used is debated, agreed and obtained
		2.7	Equipment requirements are debated and selected appropriate to project requirements
		2.8	Project manufacturing procedures are debated and final manufacturing processes agreed, including assembly techniques and finishing methods
		2.9	Distribution channels, marketing and despatch strategies are debated and instigated
		2.10	Final presentation of the project is made displaying respect for all collaborators
3	Evaluate design collaboration	3.1	Quality systems are evaluated for effectiveness of outcomes
		3.2	Client satisfaction with the project outcome is measured
		3.3	Observations from collaborators on improvement of the process is collected
		3.4	Collaborators are assessed and reviewed for their effectiveness in the process
		3.5	Systems are analysed for improvement opportunities

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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|---|---|
| Organisational requirements include: | <ul style="list-style-type: none">• 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• WHS, emergency and evacuation requirements• 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 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 |
| Collaboration includes: | <ul style="list-style-type: none">• a group of people working together to achieve an outcome, including:<ul style="list-style-type: none">• designers• senior management• tradespeople |

	• consumers • sales staff • distributors • clients
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 • control • equipment • capabilities • aesthetic relations • tension • development methods
Concepts include:	• ideas generated to respond to the design brief through both

	ideation drawings or sketching and written explanation
Critique includes:	• the process of undertaking a critical analysis of a product • the design process used • the manufacturing methodology • final outcomes
Management systems include:	• the project plan and attributes within it to fulfil the design brief and intended outcomes of the project, including: • personnel management • quality mechanisms • project stages • resource management • process management • problem solving mechanisms • performance targets
Quality systems include:	• inspection systems for ensuring that pre-determined quality standards are being met, highlighting non-conformances requiring intervention
Manufacturing processes include:	• the method by which the product will be produced, these steps usually entail working from drawings and specifications, producing components utilising machine operations, assembly of the components and finishing techniques
Materials include:	• native 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
- Distribution channels include:**
 - self-promotion and distribution
 - organisation through agents representing individuals
 - hired distribution organisations
 - joint ventures
 - establishment of own distribution network
- Packaging and despatch include:**
 - wrapping in fabric
 - plastic wrapping
 - shrink wrapping
 - boxing
 - foam shells
 - despatch by truck, trailer, train, plane or ship

Unit Mapping Information

Supersedes and is equivalent to LMFFDT6005A Work collaboratively on a design project

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 MSFFDT5015 Work collaboratively on a design project

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Performance Evidence

- Apply design elements and principles and work collaboratively on a design project in accordance with client requirements, setting a project plan and design brief
- Plan processes and encourage interchange of ideas to facilitate collaborative development of design concepts
- Evaluate design processes to determine improvements
- Determine report requirements and present information in appropriate formats
- Use mathematical ideas and techniques to correctly complete calculations for design assessment
- 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 the full range of processes for working collaboratively on a design project
- Organisational and site standards, requirements, policies and procedures for working collaboratively on a design project
- Environmental protection requirements
- Established communication channels and protocols
- Relevant 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 furnishing materials, products and defects
- Set-up and operation of equipment
- Relevant computer programs

- Product machining, assembly and finishing 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 specifications and opportunities for working collaboratively on a design project.

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