



Australian Government

MSFFDT5011 Assess economic impact of a design

Release: 1

MSFFDT5011 Assess economic impact of a design

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers assessing the economic impact of a design, and recording its marketability, volume potential and competition. It applies in 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	Research economic factors	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to assessing the economic impact of a design are verified and complied with
		1.2	Design brief is reviewed, confirmed and clarified with appropriate personnel
		1.3	Communication with others is established and maintained in accordance with WHS requirements
		1.4	Market research fundamentals undertaken to assess the size and nature of a market are considered and analysed
		1.5	Potential designed products sales volume of amount sold within a specified time period, expressed in monetary terms or in terms of the total amount of stock or products sold f are analysed and evaluated

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| | | 1.6 | Niche markets are discovered and analysed for cost-benefit analysis assigning monetary value to the costs and benefits (social, environmental and monetary) associated with a project for the purpose of selecting and evaluating project investment opportunities |
| 2 | Assess economic impact of the design | 2.1 | Production costs of a design are assessed and evaluated |
| | | 2.2 | Longitudinal statistical studies of a design that produces data gathered over a period of time are undertaken to explore potential success factors |
| | | 2.3 | Scale of production is estimated taking into account market analysis |
| | | 2.4 | Profit margins of the amount by which income exceeds expenditure, including the sale price minus the cost of production, distribution and marketing are analysed based on expected turnover

Full costing of product, including the price point of the cost for sale placed on a product which caters to a market segment based on production costs, overheads and profit margins in relation to demand, supply and volume of sales in the market and demand for the product is conducted |
| | | 2.5 | Competition in the market place with similar design solutions or products in that market segment are analysed and strategies reviewed |
| | | 2.6 | Availability of resources is assessed to ascertain what impact this will have on economic viability |
| | | 2.7 | Product lifecycle analysis is evaluated for economic significance |
| | | 2.8 | Long-term economic impact on the business, staff and associated suppliers is analysed and strategised |
| | | 2.9 | Intended manufacturing processes, including assembly and finishing, are assessed for their economic impact |
| | | 2.10 | Final documentation outlining the full analysis of the designs economic impact is compiled and produced as a report |
| | | 2.11 | Production costs of a design are assessed and evaluated |

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.

Organisational requirements include:

- 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:

- 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
Niche markets include:	• a very specific market segment within a broader segment of the market that involves the provision of specialist products where relatively few or no competitors exist
Resources include:	• materials • personnel • equipment • systems
Product lifecycle includes:	• the evolution of a product from its raw source, through its inception, development, manufacture, completion and time as a completed product until potential renewal
Manufacturing processes include:	• the methods by which the product will be produced, these steps entail working from working drawings and specifications, producing components utilising machine operations, assembly of the components and finishing techniques
Assembly methods include:	• nailing • gluing • screwing • welding • pressing • sewing • bonding • jointing • other methods of connecting various materials
Finishing includes:	• paints • waxes • lacquers • stains • pigments • oils • plastic coatings

Unit Mapping Information

Supersedes and is equivalent to LMFFDT6001A Assess economic impact of a design

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 MSFFDT5011 Assess economic impact of a design

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Performance Evidence

- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- 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
- Assess the economic impact of a design from inception through manufacture, including marketing, sales volume and competition impact, and recording of the impact study outcomes
- Research, contrast and compare a range of economic factors upon a design and interpret costing and financial documentation
- Produce a report on the economic impact study outcomes of a product
- 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 assessing the economic impact of a design
- Organisational and site standards, requirements, policies and procedures for assessing the economic impact of a design
- Economic conditions and markets nationally and internationally
- Established communication channels and protocols
- Relevant problem identification and resolution
- Elements and principles of design

- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Characteristics of furniture materials, products, sources and defects
- Relevant computer programs
- Product assembly techniques and equipment capabilities
- 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, materials and equipment relevant to assessing the economic impact of a design.

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