



Australian Government

MSTTD4011 Estimate costs for development of textile designs

Release: 1

MSTTD4011 Estimate costs for development of textile designs

Modification History

Release 1. Supersedes and is equivalent to LMTTD4011A Estimate costs for development of textile designs

Application

This unit of competency covers the skills and knowledge required to estimate costs associated with the development and production of textile designs.

The unit of competency applies to cost estimating for development of designs for textile products, including sample production.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

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

Pre-requisite Unit

Nil

Competency Field

Textile design and development

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	Identify job requirements from specifications, drawings, job sheets or work instructions

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| 2 | Prepare to estimate costs | 2.1 | Analyse product and design specifications and determine yarn and other material requirements |
| | | 2.2 | Analyse production requirements to determine impact on material selection and costs |
| | | 2.3 | Identify costing factors to consider when purchasing materials for textile products and related production requirements |
| | | 2.4 | Identify market forces that affect costing for the textiles industry and consider in line with purchasing requirements |
| | | | |
| 3 | Calculate material costs for producing textile products | 3.1 | Estimate costs of materials for textile sample production |
| | | 3.2 | Compare similar products from different price points within textiles industry and identify any production differences |
| | | 3.3 | Identify hidden costs in sample production |
| | | 3.4 | Calculate differences in costs for sample and bulk production and compare |
| | | 3.5 | Document material cost estimate details for textile production |
| | | | |
| 4 | Determine labour costs for producing textile products | 4.1 | Identify labour required for textile product production |
| | | 4.2 | Calculate labour costs for production of sample and bulk production and compare |
| | | 4.3 | Identify different methods of utilising labour in the textile industry and compare |
| | | 4.4 | Document labour cost estimate details for textile production |
| | | | |
| 5 | Complete cost estimate | 5.1 | Use production specifications and information to identify components of costing sheets |

- 5.2 Develop costing sheets for sample or bulk production to meet textile industry standards
- 5.3 Check costing sheets against production requirements and budget information and complete according to industry standards and workplace procedures
- 5.4 Finalise cost estimates, communicate with relevant personnel and complete all documentation

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for 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.

Workplace procedures include one or more of the following:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- SOPs
- work instructions
- PPE
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling
- WHS practices

Costing factors include the following:

- variable costs (e.g. materials)
- fixed costs (e.g. overheads)
- profit
- industry and quality standards

Hidden costs include one or more of the following:

- sample textiles not included in costing of bulk production
- equipment costs for short runs
- labour costs for short runs

Different methods of utilising labour include one or more of the following:

- subcontractors
- offshore production

Components of costing sheets include the following:

- date
- style/design number
- dimension
- extras (e.g. printing and embroidery)
- labour
- freight and shipping
- packaging
- overheads
- labels
- yarn type
- dye or colour

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTD4011A Estimate costs for development of textile designs

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>

Assessment Requirements for MSTTD4011 Estimate costs for development of textile designs

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices
- accessing and interpreting information related to production of textiles, including materials and labour costs
- identifying costing factors, including industry and quality standards
- performing calculations for all costs, including cost of sample and bulk production, material cost estimates and different sources of labour, on at least two (2) occasions
- comparing and analysing costing information and evaluating information to develop cost estimates in line with requirements
- developing costing sheets for sample or bulk production to meet textile industry standards
- checking costing sheets against production requirements and budget information, and completing according to industry standards and workplace procedures
- finalising cost estimates, communicating with relevant personnel and completing all documentation.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- industry standards for costing specifications
- costing components:
 - raw materials
 - printing
 - machinery and equipment
 - labour
 - overheads
 - extras (e.g. trims, fibres and dyes)
 - other materials required for production
- textile products:
 - tapestries

- knitted products
- woven products
- screen printed products
- carpets
- pattern or design terminology
- style features
- market forces:
 - market demand for textile products (e.g. one-offs, samples and large scale production)
 - supply of raw materials
 - international competition
- quality standards and practices
- sequence of operations
- production requirements:
 - timelines
 - budget
 - quality standards
 - quantity
 - performance
 - use of machinery and processes
- labour requirements, such as:
 - designers
 - machinists
 - weavers
 - knitters
 - screen printers
 - dyers
 - patternmakers
 - quality controllers
 - quality control
 - packaging
 - marketing and sales
 - transportation
 - machine operators
- workplace procedures
- recording and reporting practices.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator

- have vocational competency in estimating costs for development of textile designs, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

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