



Australian Government

MSTTD5007 Develop textile designs using computer-based design programs

Release: 1

MSTTD5007 Develop textile designs using computer-based design programs

Modification History

Release 1. Supersedes and is equivalent to LMTTD5007A Develop textile designs using computer based design programs

Application

This unit of competency covers the skills and knowledge required to use a range of computer-based design programs, equipment and computing technology to generate, produce and manufacture designs for textile products.

The unit of competency applies to the creation of designs and production specifications for woven, knitted or printed textiles, tapestries and experimental textile products using computer-based design programs and equipment.

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
2	Prepare to use computer-based design tools	2.1	Analyse design brief and interpret textile design specifications
		2.2	Identify product considerations and production requirements
		2.3	Identify and plan work using suitable programs and equipment
3	Use design tools	3.1	Use design programs and equipment to create, modify and edit required designs and production specifications
		3.2	Use design programs and equipment to test designs, patterns and production specifications according to workplace procedures
		3.3	Present outputs to appropriate personnel to assess accuracy and completeness and modify, as required
4	Assess design results and maintain systems	4.1	Assess outputs generated using electronic design programs against design specifications and production requirements
		4.2	Make improvements, as required
		4.3	Create, store, organise and protect designs, patterns or production specifications according to workplace procedures
		4.4	Use, maintain and store design programs and equipment according to workplace procedures

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

Design specifications include one or more of the following:

- colour
- style details
- fabric, fibre and quantity
- production requirements
- special effects or features
- quality criteria
- sizing
- finishing details
- presentation

Product considerations include one or more of the following:

- product outcome or end-use of woven fabrics, tapestry works, knitted fabrics and digitally-printed fabrics
- quality standards
- colours and trends
- environmental factors

Programs and equipment include at least four or more of the following:

- computer
- software programs (e.g. Illustrator, Photoshop, Scotweave, Lectra, WeaveMaker, and DesignerKnit)
- internet
- hardware peripherals
- colour scanners

- laser or inkjet printers (film output and film separations)
- digital printers
- drawing tablets
- data projector
- specialised equipment:
- direct digital textile printer
- industrial knitting machine
- electronic jacquard loom
- networked file storage and back-up devices
- trade journals and trend information

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTD5007A Develop textile designs using computer based design programs

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 MSTTD5007 Develop textile designs using computer-based design programs

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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
- analysing and interpreting design brief
- using design programs and equipment to create, modify and edit designs and production specifications on at least three (3) occasions
- using design programs and equipment to test designs, patterns and production specifications according to workplace procedures
- creating, reviewing and modifying designs using relevant software programs
- creating, storing, organising and protecting designs, patterns or production specifications according to workplace procedures
- using, maintaining and storing design programs, products and equipment according to workplace procedures.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- principles of design
- textile products, including:
 - woven
 - knitted
 - printed
 - tapestries
 - experimental textile products
- electronic equipment and program features
- editing tools and procedures
- operating procedures
- product production requirements
- reporting procedure
- quality practices

- 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 using computer based design programs, 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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