



Australian Government

MSTTD4010 Apply manipulation techniques to create experimental textile samples

Release: 1

MSTTD4010 Apply manipulation techniques to create experimental textile samples

Modification History

Release 1. Supersedes and is equivalent to LMTTD4010A Apply manipulation techniques to create experimental textile samples

Application

This unit of competency covers the skills and knowledge required to use manipulation techniques to create a variety of different effects using fabrics, fibres and other materials for 2-D and 3-D design effects.

The unit of competency applies to the manipulation of a range of fibres, fabrics and other material used in the production of garments, accessories, interior and exterior applications, commissioned textiles and objects.

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 apply manipulation techniques	2.1	Identify types of manipulation
		2.2	Describe effects of manipulation on different materials
		2.3	Describe processes used to achieve different manipulations
		2.4	Prepare tools and equipment to apply a range of manipulation techniques
3	Identify uses of manipulation in design process	3.1	Describe uses of manipulation to inform and inspire design
		3.2	Describe role of manipulation as a production tool
		3.3	Describe effect of manipulation on the design
4	Manipulate textiles to produce work sample	4.1	Apply manipulation techniques to a variety of textiles and textile products
		4.2	Analyse process to assess outcome
		4.3	Modify manipulation, as required
		4.4	Produce work samples of manipulated textiles
		4.5	Implement workplace procedures in manipulation of fabrics
		4.6	Use industry appropriate tools to document techniques to manipulate textiles and their effects, and retain for future reference

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

Types of manipulation include three or more of the following:

- crushing
- heat application
- tucking
- pleating
- shrinking
- dyeing
- off loom weaving
- painted and printed warps
- tie dye techniques
- felt making
- paper making
- embroidery
- knotting
- looping

Materials include two or more of the following:

- knitted fabrics, including weft knits and warp knits
- woven fabrics, including plain, twill, satin, dobby and jacquard
- non-woven fabrics, such as felts, nets, braids, bonded and lace

- raw materials
- yarns
- man-made materials
- recycled materials

Tools and equipment include one or more of the following:

- poles for Shibori
- looms floor and table
- paper making kits
- tables and chairs
- access to wet areas
- dye pots hot and cold

Industry appropriate documentation techniques include one or more of the following:

- photographic display
- storyboards
- collection of samples
- filmed demonstration
- electronic data
- written documentation
- instructions
- formulae/recipes
- file notes

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTD4010A Apply manipulation techniques to create experimental textile samples

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 MSTTD4010 Apply manipulation techniques to create experimental textile samples

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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 and safe work practices
- undertaking a minimum of three (3) types of manipulation to create 2-D and 3-D design effects, on at least two (2) occasions
- undertaking manipulations on a range of fabrics and fibres with different characteristics
- creating work samples of manipulated textiles
- analysing performance characteristics
- using tools and equipment associated with manipulating fabrics
- documenting process and outcomes using industry appropriate tools
- applying workplace procedures.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- uses and performance characteristics of fibres and fabrics
- information resources on fibres and fabrics
- types of manipulation and effects on materials
- material used in the production of garments, accessories, interior and exterior applications, commissioned textiles and objects
- 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 applying manipulation techniques to create experimental textile samples, 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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