



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **LMTTD4010A Apply manipulation techniques to create experimental textile samples**

**Revision Number: 1**

## **LMTTD4010A Apply manipulation techniques to create experimental textile samples**

### **Modification History**

Not applicable.

### **Unit Descriptor**

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

## Application of the Unit

### Application of the Unit

The unit 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. Evidence of competency in this skill requires a minimum of three types of manipulation.

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

The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:

- requirements prescribed by legislation, awards agreements and conditions of employment
- standard operating procedures
- work instructions
- 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

This unit requires the application of learning, problem solving and initiative and enterprise associated with achieving experimental manipulation outcomes. This unit also requires an ability to check the effects of outcomes and identify and address problems relating to production.

## Licensing/Regulatory Information

Not applicable.

## Pre-Requisites

### Prerequisites

## Employability Skills Information

**Employability Skills** This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

Not applicable.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Identify manipulation techniques	1.1 <i>Types of manipulation</i> are identified. 1.2 Effects of manipulation on different <i>materials</i> are described. 1.3 Processes used to achieve different manipulations are described.
2 Describe uses of manipulation in design process	2.1 Uses of manipulation to inform and inspire design are described. 2.2 Role of manipulation as a production tool is described. 2.3 Effect of manipulation on the design is described. 2.4 <i>Tools and equipment</i> to be used are prepared.
3 Manipulate textiles to produce work sample	3.1 Manipulation techniques are applied to a variety of textiles and textile products. 3.2 Process is analysed to assess outcome. 3.3 Manipulation is modified as required. 3.4 Work sample of manipulated textile is produced. 3.5 <i>OHS practices</i> and procedures are implemented in manipulation of fabrics. 3.6 Techniques used to manipulate textiles and their effects are documented for future reference.

## Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- uses and performance characteristics of fibres and fabrics
- information resources on fibres and fabrics
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- analyse performance characteristics
- use tools and equipment associated with manipulating fabrics
- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

## Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

<b>Critical aspects of evidence to be considered</b>	Demonstrates skills and knowledge to: <ul style="list-style-type: none"><li>• identify textile fibres, fabrics and other materials</li><li>• determine effects of manipulating textiles</li><li>• apply techniques to achieve manipulation effects</li><li>• apply OHS practices in work operations</li></ul>
<b>Consistency in performance</b>	Consistently applies skills and knowledge when: <ul style="list-style-type: none"><li>• organising work</li><li>• completing tasks</li><li>• identifying improvements</li><li>• using workplace practices</li><li>• using OHS practices</li><li>• recording and reporting accidents and incidents</li><li>• assessing operational readiness of equipment used and work processes</li><li>• recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions</li><li>• completing work systematically with attention to detail without damage to goods and equipment</li></ul>
<b>Resource implications</b>	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
<b>Context for assessment</b>	Assessment may occur on the job or in an appropriately simulated environment.
<b>Interdependent assessment</b>	This unit may be assessed independently or in combination with other relevant units.

## Range Statement

### RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

**Legislative/regulatory requirements** All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.

**Types of manipulation may include**

- 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 may include**

- 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 may include**

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

**OHS practices** OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit and may include:

- manual handling techniques

- standard operating procedures
- personal protective equipment
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- other OHS practices relevant to the job and enterprise

## **Unit Sector(s)**

**Sector** Textile Design and Development