



Australian Government

Department of Education, Employment and Workplace Relations

LMTTD4003A Produce woven textile samples

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to perform weaving techniques to produce woven design samples.

Application of the Unit

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The unit applies to the interpretation of design specifications, and use of weaving looms to produce sample woven products.

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 communications skills associated with interpreting patterns and specifications, and planning and organising skills for the safe and effective use of weaving technology and operations. This unit also requires an ability to check the quality of outcomes and identify and address problems relating to production. Initiative and enterprise and problem solving will be used to combine yarns and processes to achieve desired design outcomes.

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 Interpret production requirements	1.1 Design specifications and pattern for woven product are analysed and discussed with appropriate personnel to confirm production requirements 1.2 Desired effects of weaving are identified and appropriate weaving technique selected to achieve required outcome 1.3 Yarns, quantities and equipment are selected according to design requirements
2 Produce woven design sample	2.1 Workstation, tools and equipment are set up according to specifications for work 2.2 Yarns to be woven are checked against quality standards 2.3 Weaving techniques are undertaken to meet design specifications for sample and according to OHS practices 2.4 Weaving techniques and outcomes are monitored throughout to identify production faults
3 Check quality of sample	3.1 Completed sample is checked against design specifications and pattern to ensure quality standards are met 3.2 Weaving faults and production problems are identified and causes determined 3.3 Weaving process, technique and materials used are analysed to determine necessary modifications to weaving techniques, processes or patterns
4 Complete production process	4.1 Weaving faults and production problems are rectified or sample is reproduced according to modifications 4.2 Woven sample is finished according to design specifications 4.3 Outcomes are examined with appropriate personnel and possible modifications to design are discussed and documented 4.4 Required documentation is completed

Required Skills and Knowledge

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

Demonstrates knowledge of

- weaving modification techniques
- weaving loom techniques
- yarn characteristics
- typical fault conditions
- fault-finding procedures
- types and styles of knitted fabrics
- simple equipment maintenance techniques
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices
- workplace practices
- recording and reporting practices

Demonstrates skill to

- check operational readiness of equipment
- prepare yarn for production
- start and stop equipment
- monitor production
- recognise and rectify faults or problems as required
- 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.

Critical aspects of evidence to be considered	Demonstrates skills and knowledge to: • analyse design specifications and interpret production requirements • produce knitted sample according to design specifications • identify and address faults • make minor adjustments to equipment • monitor own work and conduct quality check of sample outcome
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks • identifying improvements • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment used and work processes • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions • completing work systematically with attention to detail without damage to goods and equipment
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	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.

Production requirements may include

- shaping
- edging
- tension
- stitches
- patterning
- weaving
- tuck and slip
- colour
- pattern
- size
- tension

Appropriate personnel may include

- trainers
- colleagues
- mentors
- designers
- patternmakers
- members of the design team

Weaving techniques may include

- plain weave
- twill weave
- satin or sateen weave
- soumak
- leno
- rya
- inlay
- wrapped ends
- Spanish lace
- hatchings
- honeycomb
- traditional bronson
- warp faced weaves
- weft faced weaves

Yarns may include	• singles yarns • plied yarns: • wool • cotton • silk • novelty • synthetics • metallics • unspun fleece • rovings • rag strips • hand spun • ribbon • silk tops • nylon filament
Sample may include:	• complete woven product • sample weave
Tools and equipment may include	• 4-shaft Loom • shuttles (stick, rag, ski) • warping boards • cross sticks • scissors • measuring tape
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
Weaving faults and production problems may include	• incorrect warp tension • broken warp threads • incorrect beating of weft • incorrect threading, tie-up, treadling of design

- incorrect use of materials
- incorrect use of equipment
- holes
- foreign matter
- loom or equipment faults

Unit Sector(s)

Sector Textile Design and Development