



Australian Government

MSTTD4003 Produce woven textile samples

Release: 2

MSTTD4003 Produce woven textile samples

Modification History

Release 2. Removal of components irrelevant to weaving terminology from the Knowledge Evidence field. Supersedes and is equivalent to MSTTD4003 Produce woven textile samples (Release 1).

Application

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

The unit of competency applies to interpreting design specifications, and using weaving looms to produce sample woven products.

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 produce woven textile samples | <div>2.1 Analyse design specifications and pattern for woven product and discuss with appropriate personnel to confirm production requirements</div> <div>2.2 Identify desired effects of weaving and select appropriate weaving technique to achieve required outcome</div> <div>2.3 Select yarns, quantities and equipment according to design requirements</div> |
| 3 | Produce woven design sample | <div>3.1 Set up workstation, tools and equipment according to specifications for work</div> <div>3.2 Check yarns to be woven against quality standards</div> <div>3.3 Undertake weaving techniques to meet design specifications for sample and according to workplace procedures</div> <div>3.4 Monitor weaving techniques and outcomes throughout to identify production faults</div> |
| 4 | Check quality of sample | <div>4.1 Check completed sample against design specifications and pattern to ensure quality standards are met</div> <div>4.2 Identify weaving faults and production problems and determine causes</div> <div>4.3 Analyse weaving process, technique and materials used to determine necessary modifications to weaving techniques, processes or patterns</div> |
| 5 | Complete production process | <div>5.1 Rectify weaving faults and production problems or reproduce sample according to modifications</div> <div>5.2 Finish woven sample according to design specifications</div> <div>5.3 Examine outcomes with appropriate personnel and discuss and document possible modifications to design</div> |

5.4 Complete required 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

Appropriate personnel include one or more of the following:

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

Yarns include one or more of the following:

- singles yarns
- plied yarns:
- wool
- cotton

- silk
- novelty
- synthetics
- metallics
- unspun fleece
- rovings
- rag strips
- hand spun
- ribbon
- silk tops
- nylon filament

Sample includes one or more of the following:

- complete woven product
- sample weave

Weaving tools and equipment include one or more of the following:

- 4-shaft Loom
- shuttles (stick, rag and ski)
- warping boards
- cross sticks
- scissors
- measuring tape

Unit Mapping Information

Release 2. Supersedes and is equivalent to MSTTD4003 Produce woven textile samples (Release 1).

Release 1. Supersedes and is equivalent to LMTTD4003A Produce woven 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 MSTTD4003 Produce woven 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 (SOPs), safe work practices
- analysing design specifications and interpreting production requirements
- producing at least two (2) woven samples according to design specifications
- identifying and addressing faults
- making minor adjustments to equipment
- monitoring own work, conducting quality check of sample outcome and modifying process, if necessary
- applying workplace procedures
- documenting outcomes and maintaining records.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- production requirements:
 - tension
 - colour
 - pattern
- weaving modification techniques
- weaving loom techniques:
 - 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
- yarn characteristics
- typical fault conditions:
 - 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
- fault-finding procedures
- types and styles of woven fabrics
- simple equipment maintenance techniques
- 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 producing woven textiles 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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