



**Australian Government**

# **MSTTX3002 Contribute to textile production process improvements**

**Release: 1**

# MSTTX3002 Contribute to textile production process improvements

## Modification History

Release 1. Supersedes and is equivalent to LMTTX3002B Contribute to textile production process improvements

## Application

This unit of competency covers the skills and knowledge required to review production processes used in textile manufacture, and to contribute to identifying and implementing improvements.

The unit of competency applies to a range of textile production environments, including volume and custom production. Work is performed in a supervisory capacity and applies across the range of textile production processes. Skills and knowledge in textile production processes, tools, materials and equipment is essential.

Work may be self-directed and unsupervised.

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 production

## 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 | <b>Determine job requirements</b> | 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 | <b>Prepare to identify process improvements</b> | 2.1 | Identify key external and internal customers and their needs and expectations                                                                      |
|   |                                                 | 2.2 | Distinguish the contribution of textile production processes to the value chain                                                                    |
|   |                                                 | 2.3 | Identify key suppliers and their role in the value chain                                                                                           |
|   |                                                 | 2.4 | Identify quality standards for critical points of the production process and production requirements                                               |
|   |                                                 | 2.5 | Review production operations                                                                                                                       |
| 3 | <b>Assess improvement opportunities</b>         | 3.1 | Identify opportunities for improvement and make suggestions to improve operations                                                                  |
|   |                                                 | 3.2 | Test improvement in consultation with appropriate personnel and identify implications of improvement                                               |
|   |                                                 | 3.3 | Provide reports, records and recommendations for improvement                                                                                       |
|   |                                                 | 3.4 | Determine a timeframe for implementing improvement                                                                                                 |
| 4 | <b>Implement improvement</b>                    | 4.1 | Identify desired result of improvement and establish method of measuring outcome                                                                   |
|   |                                                 | 4.2 | Identify and implement methods of addressing any possible negative implications                                                                    |
|   |                                                 | 4.3 | Consult and work with appropriate personnel to communicate and implement improvement                                                               |
|   |                                                 | 4.4 | Monitor improvement and review outcomes with other team members to ensure improvement is implemented effectively and produces the desired outcomes |
|   |                                                 | 4.5 | Make adjustments to improvement, as required, and                                                                                                  |

## document improvement processes

### 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

**Australian Standards include:**

- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

**Textile production processes include one or more of the following:**

- receiving and processing of fibres and yarns
- identification of yarn and fibre quality
- specialist machine use, such as tufting, spinning and weaving
- repairs and alterations
- testing and inspecting
- despatch, storage and packing
- finishing processes

**Reviewing production operations includes one or more of the following:**

- identifying and reviewing housekeeping practices against workplace standards to assess conformity
- identifying and reviewing safety practices
- identifying production waste
- identifying methods of monitoring production outcomes
- assessing textile production outcomes against production goals, as required

**Improvements include one or more of the following:**

- production practices
- documentation
- supply
- despatch
- operator practices
- safety
- quality
- housekeeping

**Tests include one or more of the following:**

- trial
- verify
- pilot
- measure against research

**Appropriate personnel include one or more of the following:**

- managers
- supervisors
- colleagues
- specialist staff

## Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTX3002B Contribute to textile production process improvements

## 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 MSTTX3002 Contribute to textile production process improvements

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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
- applying relevant standards
- identifying key suppliers and quality standards for critical points of the production process and production requirements in an identified context
- reviewing textile production operations and identifying at least two (2) operations that have opportunity for improvement
- identifying and assessing at least two (2) improvement opportunities for one (1) or more of the production operations
- identifying desired result of improvements and establishing method of measuring outcome
- documenting and reporting recommendations for process improvement for an identified timeframe
- identifying and implementing methods of addressing any possible negative implications
- consulting and working with appropriate personnel to communicate and implement improvement
- monitoring improvement and reviewing outcomes with other team members to ensure improvement is implemented effectively and produces the desired outcomes
- making adjustments to improvement, as required, and documenting improvement processes.

## Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- quality standards applying to textile handling procedures, construction processes and finished product
- production requirements:
  - timing requirements
  - quantity
  - quality

- specific order requirements
- procedural requirements
- safety
- personnel
- resource use
- impact of incorrect production techniques
- sequence of operations in the production process
- production suppliers and value chain concepts:
  - suppliers of materials, yarns, fibres and fabrics
  - personnel, specialist support and contractors
  - despatch, warehousing and transport operators
  - publicity and promotional suppliers
  - machinery and equipment suppliers and repair contractors
- production waste:
  - unusable materials and off-cuts
  - delays
  - poor process design
  - inventory
  - inefficient performance of a process
  - making defective items
- quality tools and benchmarking procedures
- plan, do, check, act (PDCA) cycle
- 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 textile production process improvements, 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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