



Australian Government

MSTTX3010 Monitor textile production processes

Release: 1

MSTTX3010 Monitor textile production processes

Modification History

Release 1. Supersedes and is equivalent to LMTTX3010B Monitor textile production processes

Application

This unit of competency covers the skills and knowledge required to monitor textile production processes.

The unit of competency applies to ensuring that textile production outcomes are consistent with job specifications, identifying performance parameters, solving problems and conducting checks of performance efficiency.

The unit of competency involves working with discretion, judgement, and initiative on the job either individually or in a team environment, and may include liaison with specialist technicians, including textile mechanics or technicians and production supervisors.

Enterprises covered by this unit will process natural or synthetic source fibres, yarns or textile materials. Production processes covered include, but are not limited to, carding, spinning, knitting, tufting, weaving, finishing, dyeing and non-woven production processes.

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 | Determine job | 1.1 | Follow standard operating procedures (SOPs) |
|---|----------------------|-----|---|

	requirements	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 monitor textile production procedures	2.1	Check job specifications for requirements including quantity, quality, colour and pattern
		2.2	Identify performance parameters to the extent required to be able to report known or suspected problems
		2.3	Monitor production processes to ensure consistency with specified outcomes and comply with workplace procedures
		2.4	Maintain job records and other documentation
3	Determine problem cause and solution	3.1	Identify problems and categorise as either machine or process faults
		3.2	Refer to operating manuals and documentation and determine possible causes of the problems
		3.3	Gather further information to confirm and eliminate possible causes
		3.4	Consult appropriate personnel to confirm causes
		3.5	Determine and trial immediate or short-term solution and/or determine permanent solution to eliminate the cause of the problem in consultation with appropriate personnel
4	Conduct regular checks of performance	4.1	Make regular checks of process operation and assess results against job specifications
		4.2	Record results of checks and identify opportunities for process improvements
		4.3	Communicate and document improvements

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

Job specifications include one or more of the following:

- customer orders
- pattern diagrams
- colour charts
- simple formulae
- written and verbal instructions
- drawings

Performance parameters include the following:

- processing time
- acceptable error rate
- wastage

- noise
- vibration

Production processes include one or more of the following:

- carding
- spinning
- sizing
- winding
- weaving
- tufting
- knitting
- dyeing
- finishing
- non-woven textile production process
- any special production systems of manufacturing practice, including:
 - just in time (JIT) movement between departments and suppliers or customers
 - special housekeeping practices, including 5S

Appropriate personnel include one or more of the following:

- internal technical specialists
- supervisors
- equipment manufacturer service personnel

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTX3010B Monitor textile production processes

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 MSTTX3010 Monitor textile production processes

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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, operating manuals
- checking job specifications for requirements including quantity, quality, colour and pattern
- identifying performance parameters
- monitoring production processes on at least two (2) occasions to ensure they are consistent with specified outcomes and comply with workplace procedures
- identifying major faults and out-of-specification performance
- maintaining job records and other documentation
- identifying faults and trialling immediate or short-term solution, and/or determining permanent solution to eliminate the cause of the problem in consultation with appropriate personnel
- making regular checks of process operation and assessing results against job specifications
- recording results of checks and identifying opportunities for process improvements
- communicating and documenting improvements.

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
- textile production processes used in an enterprise
- range of problems and their solutions associated with textile production operations
- structure of organisation
- internal and external suppliers
- internal and external customers
- raw materials
- product flow
- quality standards and 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 monitoring textile production processes, 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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