



Australian Government

MSTTX3006 Ensure efficient operation of textile machines

Release: 1

MSTTX3006 Ensure efficient operation of textile machines

Modification History

Release 1. Supersedes and is equivalent to LMTTX3006B Ensure efficient operation of textile machines

Application

This unit of competency covers the skills and knowledge required to ensure efficient operation of textile machines.

The unit of competency applies to the routine monitoring, problem solving and maintenance of machines and equipment used in the textile industry.

It involves working with discretion, judgement and initiative on the job in own work, and may include liaison with specialist technicians, including mechanics and technicians and production supervisors.

The application of machine fault diagnosis is within the competency and scope of the operator. The unit does not cover complex problems requiring a textile mechanic.

Work may be conducted in a variety of environments, such as operational workplace activities, restricted space, and hazardous, controlled or exposed conditions.

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.

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| 1 | Determine job | 1.1 | Follow standard operating procedures (SOPs) |
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	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 ensure efficient machine operation	2.1	Monitor and review machine performance and make necessary adjustments to ensure operations and product meet quality standards and workplace procedures
		2.2	Consult machine operator to assess machine operations and processes, and maintain records and documentation of machine performance
		2.3	Identify symptoms of machinery fault
		2.4	Visually inspect machine components and product to identify source of fault
		2.5	Refer to operating manuals or documentation, as required
3	Determine problem cause and solution	3.1	Determine possible causes of problem and gather further information to confirm or eliminate possible cause
		3.2	Consult appropriate personnel to confirm cause
		3.3	Determine immediate solution and trial or implement
		3.4	Determine permanent solution in consultation with appropriate personnel
4	Conduct routine checks of performance efficiency	4.1	Use appropriate hand tools and hand-held power tools to implement routine checks of machine performance and preventative maintenance strategy, in accordance with manufacturer instructions
		4.2	Assess and perform periodic servicing, such as lubrication and greasing, in accordance with manufacturer instructions

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| | | 4.3 | Clean machine in accordance with manufacturer cleaning instructions and work environment |
| 5 | Perform preventative maintenance procedures | 5.1 | Inspect parts according to operating procedures and manufacturer instructions |
| | | 5.2 | Maintain service and production records to assist with life cycle monitoring of parts and machine, as required |
| | | 5.3 | Identify faulty parts for repair, replacement or adjustment and take necessary action |
| | | 5.4 | Inspect, check and monitor replacement parts and consumables to ensure they comply with operational specifications |

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
Identify problems includes one or more of the following:	• identifying symptoms of machinery fault • using visual inspection of machine and product to locate fault • locating fault within section or component of machine • referring to operating manuals or documentation for information, as required
Symptoms include one or more of the following:	• product does not meet specification • machine is not operating to specification • sounds not attributed to normal operation • recurrent faults, such as yarn breaking
Machines include one or more of the following:	• knitting machines • carding machines • spinning machines • weaving looms • dyeing equipment • tufting looms • finishing equipment • creeling and warping machines
Appropriate personnel include one or more of the following:	• textile mechanic • supervisor • senior operator
Immediate solutions include one or more of the following:	• decommission machine • change settings • adjust operation • perform temporary fix • refer to textile mechanic
Parts and consumables include one or more of the following:	• belts • globes • combs

- other items that require periodic replacement as a result of normal machine and production operations

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTX3006B Ensure efficient operation of textile machines

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>