



Australian Government

MSTDE3009 Maintain computerised embroidery machines

Release: 1

MSTDE3009 Maintain computerised embroidery machines

Modification History

Release 1. Supersedes and is equivalent to LMTDE3009A Maintain computerised embroidery machines

Application

This unit of competency covers the skills and knowledge required to set up and maintain computerised embroidery machines to ensure efficient operation.

The unit of competency applies to maintenance work on embroidery machines and responding to production problems. It targets the operator or assigned personnel who address common performance problems that do not require specialised sewing machine mechanic skills.

Work involves liaison with operators, if required.

Work may be conducted in a variety of environments, such as operational workplace activities, or home-based activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Digitising and computerised embroidery

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
2	Prepare to maintain computerised embroidery machines	2.1	Identify type of machine and determine maintenance requirements and schedule
		2.2	Inspect componentry of equipment, assess for wear and identify any need for maintenance
		2.3	Operate machine to assess performance and identify impact of fabric and needles
		2.4	Identify and adjust possible faults in software application or digitised file
3	Conduct basic maintenance	3.1	Identify performance problems and determine root cause
		3.2	Assess timing and adjust according to manufacturer specifications
		3.3	Assess and adjust positioning and timing of cutters, as required
		3.4	Assess and address other operational problems
		3.5	Identify electronic or major operational problems and refer to suitable personnel
		3.6	Document maintenance work according to workplace procedures

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
- 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
- WHS practices

Australian Standards include:

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

Software includes:

- any software classed as a digitising software (as opposed to customising or editing software)

Performance problems include one or more of the following:

- needle breaking
- thread breaking
- missing stitches
- stoppage

Root cause includes one or more of the following:

- incorrect timing
- electrical faults
- sharp or worn edges or components
- incorrect needle or positioning
- incorrect thread or material components
- machine needs oiling or cleaning
- incorrect tension
- blockages or clogging in components
- lack of operator skill

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTDE3009A Maintain computerised embroidery machines

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 MSTDE3009 Maintain computerised embroidery machines

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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:

- maintain at least two (2) computerised embroidery machines
- reading and following work instructions, standard operating procedures, safe work practices, manufacturer specifications
- applying relevant standards
- assessing operational performance of machine
- determining impacts of materials and componentry on performance
- identifying performance problems and determining root cause
- identifying and adjusting possible faults in software application or digitised file
- assessing timing and adjusting according to manufacturer specifications
- assessing and adjusting positioning and timing of cutters, as required
- identifying electronic or major operational problems and referring to suitable personnel
- documenting maintenance work according to workplace procedures.

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
- embroidery machines: domestic (single or multi-needle) or commercial (single or multi-head) machines
- computer navigation to use basic software functions
- machine embroidery techniques
- common performance problems, typical causes and related adjustments
- stabilisers, toppings and backings:
 - water soluble
 - tear away
 - iron on
 - cut away
 - varying weights
- fabric types and properties:

- woven
- non-woven
- knits
- lightweight
- heavyweight
- hoop types and uses:
 - tubular
 - sash
 - screw
 - cap
 - square
 - round
 - spring
- needle types and uses:
 - standard
 - metalfil
 - embroidery eye
 - stretch
- thread types:
 - polyester
 - metallic
 - rayon
 - cotton
- workplace policies and procedures
- environmental aspects related to workplace and machine or equipment operation and manual handling
- workplace practices
- practices for recording and reporting.

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 maintaining computerised embroidery machines, 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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