



Australian Government

MSTCL2001 Use a sewing machine

Release: 1

MSTCL2001 Use a sewing machine

Modification History

Release 1. Supersedes and is equivalent to LMTCL2001B Use a sewing machine

Application

This unit of competency covers the skills and knowledge required to use a sewing machine to align and sew work pieces.

The unit of competency applies to sewing techniques where the positioning of the work is controlled by guide bars, sensor lights or other such guiding devices, or where there is uncomplicated feeding of the fabric.

Work is conducted according to defined procedures.

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

Clothing 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 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 use sewing machine | 2.1 | Receive work pieces, check specification sheets and plan follow-up action |
| | | 2.2 | Check that the bundle matches ticket information and that previous operations, such as pressing and cutting, have been successfully completed |
| | | 2.3 | Lay out work pieces in sequence |
| | | 2.4 | Set up workbench and seating according to workplace procedures |
| | | 2.5 | Clean, check, set up and adjust machines according to specifications for work |
| | | 2.6 | Identify poor machine performance and adjust as required |
| | | | |
| 3 | Sew work pieces | 3.1 | Sew pieces according to product requirements and quality standards |
| | | 3.2 | Use machine according to requirements for speed of work |
| | | 3.3 | Control machine speed and work handling according to type of operations, fabrics and product type |
| | | | |
| 4 | Assess quality of sewn pieces | 4.1 | Inspect sewn pieces against quality standards |
| | | 4.2 | Identify any faults or pieces that do not meet quality standards and report |
| | | 4.3 | Record results of quality inspection |
| | | 4.4 | Complete production records or packing slips as required |
| | | 4.5 | Direct work to next operation or packing section |

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

Machines include:

Automatic machines used to perform basic machining tasks where feeding and positioning of fabric is guided by the machine, including one or more of the following:

- plain lockstitch machine
- three thread overlocker
- zigzag sewing machine

Fabrics include one or more of the following

- stable woven and knitted fabrics, such as cotton drill, calico, double knit, rugby knit and poplin

Set-up includes the

- ensuring correct thread, needle size and type, needle guard, tension setting and attachments

following:**Identify poor machine performance includes the following:**

- identifying worn or damaged parts, and reporting or replacing according to manufacturer specifications
- identifying tension faults
- identifying poor thread performance or incorrect thread selection
- identifying incorrect foot or needle for sewing
- identifying impact of poor machine performance on sewing
- checking and replacing worn or damaged needles and attachments (feet)

Sewing operations include the following:

- aligning and sewing straight seams
- joining flat pieces of stable fabric together
- top stitch, edge stitch, open seams, closed seams and lapped seams

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTCL2001B Use a sewing machine

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 MSTCL2001 Use a sewing machine

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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) and safe work practices
- checking work against ticket information or specification sheets
- preparing workstation tools and equipment
- performing basic machining tasks where feeding and positioning of fabric is guided by the machine, using at least two (2) different fabrics, to sew at least one (1) sample of each of the following operations:
 - aligning and sewing straight seams
 - joining flat pieces of stable fabric together
 - top stitch, edge stitch, open seams, closed seams and lapped seams
- sewing and doing routine maintenance on at least one (1) of the following machines:
 - plain lockstitch machine
 - three thread overlocker
 - zigzag machine
- inspecting completed work to check quality and production output requirements, and identifying and correcting faults
- recording results of quality inspection and completing production records or packing slips as required.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- garment assembly processes and machines where the positioning of the work may be controlled by guide bars, sensor lights or other such guiding devices, or where there is uncomplicated feeding of the fabric
- techniques in using and maintaining one or more automatic machines:
 - plain lockstitch machine
 - three thread overlocker
 - zigzag machine
- characteristics of stable woven and knitted fabrics and threads, such as cotton drill, calico, double knit, rugby knit and poplin

- 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 using a sewing machine, 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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