



Australian Government

MSFMB2007 Set up, operate and maintain a quilting machine

Release: 1

MSFMB2007 Set up, operate and maintain a quilting machine

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers setting up, operating and maintaining a quilting machine which uses automated processes to apply padding/foam to plain or patterned fabric.

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

Pre-requisite Unit

Competency Field

Unit Sector

Mattress and Base Making

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | | | |
|---|----------------------|-----|--|
| 1 | Plan work operations | 1.1 | Work instructions are used to determine job requirements, including quality, materials, equipment and quantities |
| | | 1.2 | Work health and safety (WHS) requirements, including personal protection needs, are observed through the work |
| | | 1.3 | Material for processing is selected and inspected for quality |
| | | 1.4 | Machine, the thread guides and needles are identified and checked for safe and effective operation |
| | | 1.5 | Procedures are determined for minimising waste material |
| | | 1.6 | Procedures are identified for maximising energy efficiency while completing the job |
| 2 | Set up machines | 2.1 | Machine settings and adjustments are made in accordance with job requirements and machine and tool manufacturer instructions |

- 2.2 Trial runs are conducted to check machine operation, accuracy and quality of finished work
 - 2.3 Necessary adjustments are made to machine settings
- 3 Complete the quilting process
 - 3.1 Machine start-up procedure is carried out in accordance with manufacturer instructions
 - 3.2 Materials are fed into machine in accordance with manufacturer instructions, tooling requirements, safe handling procedures and standard workplace operating procedures
 - 3.3 Machine is operated in accordance with its designed capacity and purpose, and to manufacturer recommendations
 - 3.4 Machine operation, including inputs and outcomes, is monitored to ensure product quality and output
 - 3.5 Waste quantities are checked and minimised
 - 3.6 Items that do not meet quality requirements are repaired, recycled or discarded according to workplace procedure
 - 3.7 Problems with the required work or the operation of the machine are identified and reported to appropriate persons
- 4 Clean up work area and maintain equipment
 - 4.1 Material that can be re-used is collected and stored
 - 4.2 Waste and scrap is removed following workplace procedures
 - 4.3 Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures
 - 4.4 Unserviceable equipment is tagged and faults identified in accordance with workplace procedures
 - 4.5 Operator maintenance is completed in accordance with manufacturer specifications and site procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies 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. Range is restricted to essential operating conditions and any other variables essential to the work environment.

- | | |
|--|--|
| Unit context includes: | <ul style="list-style-type: none">• WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent• work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements• work requires individuals to demonstrate some discretion, judgement and problem solving |
| Quilting machines include: | <ul style="list-style-type: none">• semi-automated quilting machines• fully automated quilting machines |
| Material to be processed include: | <ul style="list-style-type: none">• plain or patterned fabrics• padding materials and foam |
| Operator maintenance includes: | <ul style="list-style-type: none">• cleaning and refurbishing of the quilting needle unit, thread guides, shuttles and loopers |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulations and enterprise policies and practices |
| Information and procedures include: | <ul style="list-style-type: none">• workplace procedures relating to the use of tools and equipment• work instructions, including job sheets, cutting lists, plans, drawings and designs• workplace procedures relating to reporting and communication• manufacturer specifications and operational procedures |

Unit Mapping Information

Supersedes and is equivalent to LMFMB3004B Set up, operate and maintain a quilting machine.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFMB2007 Set up, operate and maintain a quilting machine

Modification History

Release 1 - New unit of competency

Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Identify, set up and operate a semi-automated or automated quilting machine to complete:
 - setting up and applying at least two (2) different fabrics and padding/foam
 - identifying and correcting at least two (2) real or simulated machining faults
 - one cam change
- Conduct operator maintenance on the machines and equipment
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Types, characteristics, uses and limitations of the machines
- Characteristics, uses and limitations of thread, fabric, padding and foam
- Workplace guidelines regarding acceptable tolerance levels
- Workplace safety policies and procedures
- Procedures for reporting machinery faults and material defects

Assessment Conditions

- Assessors must:

- hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
- have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
- be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to a semi-automated or automated quilting machine, including tooling equipment and accuracy devices.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>