



Australian Government

MSFMB2005 Make springs for mattresses and bases

Release: 1

MSFMB2005 Make springs for mattresses and bases

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers using coiling machines and related tools and materials to produce springs for mattresses and bases and includes determining the type of spring required, spring tension, positioning, wire type and diameter, and coil count.

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	Specifications for springs are confirmed, including the type of spring required, spring tension, positioning, wire type and diameter and coil count
		1.2	Work health and safety (WHS) requirements, including ergonomic criteria and personal protection needs, are observed throughout the work
		1.3	Suitable work area is selected, tidied and cleaned of any contaminants
		1.4	Appropriate equipment and tools are selected and checked for the required spring coiling process

2	Operate machinery to make springs	2.1	Machine is checked for safe and effective operation
		2.2	Machine settings and adjustments are made in accordance with job requirements and machine and tool manufacturer instructions
		2.3	Machine start-up procedure is carried out in accordance with manufacturer instructions
		2.4	Machine is operated in accordance with its designed capacity and purpose, tooling requirements and to manufacturer recommendations
		2.5	Material is fed into machine in accordance with manufacturer instructions, safe handling procedures and standard workplace operating procedures
		2.6	Machine operation is monitored to ensure springs are produced to job specifications and quality requirements
		2.7	Problems with the required work and/or the operation of the machine are identified and reported to appropriate persons
3	Clean up work area and maintain equipment	3.1	Items that do not meet quality requirements are recycled or discarded according to workplace procedures
		3.2	Material that can be re-used is collected and stored
		3.3	Waste and scrap are removed following workplace procedures
		3.4	Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures

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| 3.5 | Unserviceable equipment is tagged and faults identified in accordance with workplace procedures |
| 3.6 | Equipment and tooling is maintained in accordance with workplace 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.

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| 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 |
| Tools and equipment include: | <ul style="list-style-type: none"> • spring coiling machine • related tools |
| Materials include: | <ul style="list-style-type: none"> • helical wire |
| 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 LMFMB3002B Make springs for mattresses and bases.

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 MSFMB2005 Make springs for mattresses and bases

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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
- Produce the following three (3) types of springs:
 - coil springs
 - spiral springs
 - stabilising springs
- 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

- Work requirements, including workplace standards
- Spring types and characteristics, common faults and inspection procedures
- Types of wire and their application
- Risks to health from repetitive actions and prevention strategies

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 appropriate equipment and tools, including a coiling machine, wire, work procedures and equipment instructions.

Links

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