



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **LMFMB3002B Make springs for mattresses and bases**

**Revision Number: 1**

## LMFMB3002B Make springs for mattresses and bases

### Modification History

Not applicable.

### Unit Descriptor

<b>Unit descriptor</b>	This unit covers the competency to use coiling machines and related tools and materials to produce springs for mattresses and bases.
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### Application of the Unit

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### Licensing/Regulatory Information

Not applicable.

### Pre-Requisites

<b>Prerequisite units</b>	Nil	

### Employability Skills Information

<b>Employability skills</b>	This unit contains employability skills.
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## Elements and Performance Criteria Pre-Content

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</p>
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## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan work operations	<p>1.1. Specifications for springs are confirmed, including:</p> <ul style="list-style-type: none"> <li>1.1.1. type of spring required</li> <li>1.1.2. spring tension</li> <li>1.1.3. spring positioning</li> <li>1.1.4. wire type and diameter</li> <li>1.1.5. coil count</li> </ul> <p>1.2. Workplace health and safety requirements, including ergonomic criteria and personal protection needs, are observed throughout the work</p> <p>1.3. Suitable work area is selected, tidied and cleaned of any contaminants</p> <p>1.4. Appropriate equipment and tools are selected and checked for the required spring coiling process</p>
2. Operate machinery to make springs	<p>2.1. Machine is checked for safe and effective operation</p> <p>2.2. Machine settings and adjustments are made in accordance with job requirements and, machine and tool manufacturer instructions</p> <p>2.3. Machine start-up procedure is carried out in accordance with manufacturer instructions</p> <p>2.4. Machine is operated in accordance with its designed capacity and purpose, tooling requirements and to manufacturer recommendations</p> <p>2.5. Material is fed into machine in accordance with manufacturer instructions, safe handling procedures and standard workplace operating procedures</p> <p>2.6. Machine operation is monitored to ensure springs are produced to job specifications and quality requirements</p> <p>2.7. Problems with the required work and/or the operation of the machine are identified and reported to appropriate persons</p>
3. Clean up work area and maintain equipment	<p>3.1. Items that do not meet quality requirements are recycled or discarded according to workplace procedures</p> <p>3.2. Material that can be reused is collected and stored</p> <p>3.3. Waste and scrap is removed following workplace procedures</p> <p>3.4. Equipment and work area are cleaned and inspected for serviceable condition in accordance with</p>

ELEMENT	PERFORMANCE CRITERIA
	workplace procedures 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

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

#### Required skills

- collect, organise and understand information related to spring making, work orders, maintenance systems and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with site supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities, including the preparation and layout of the worksite to avoid any back tracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to correctly complete measurements and estimate material requirements
- use pre-checking and inspection techniques to anticipate problems, avoid re-working and wastage
- use workplace technology related to the operation and maintenance of the spring coiling machine

#### Required knowledge

- 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

## Evidence Guide

### EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

#### Critical aspects of 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 and select materials used and any special handling requirements for those materials
- Follow work instructions, operating procedures and inspection practices to:
  - minimise the risk of injury to self and others
  - prevent damage to goods, equipment and products
  - maintain required production output and product quality
- Produce one of the following three types of springs:
  - coil springs
  - spiral springs
  - stabilising springs
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment

#### Resource implications

Appropriate equipment and tools, including a coiling machine, wire, work order; workplace information, including work procedures and equipment instructions.

#### Method of assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.

Assessment should be by direct observation of tasks and questioning on underpinning knowledge.

Assessment should be conducted over time and will generally be in conjunction with assessment of other units of competency.

#### Context of assessment

Assessment may occur on the job or in a workplace simulated facility with relevant process equipment, materials, work instructions and deadlines.



## Range Statement

<b>RANGE STATEMENT</b>	
<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<b>Unit scope</b>	This unit covers work involving the making of springs for mattresses and bases.
<b>Unit context</b>	<ul style="list-style-type: none"> <li>• Work requires individuals to demonstrate discretion, judgement and problem solving skills in the making of springs</li> <li>• Work is carried out in accordance with statutory requirements, organisation insurance requirements, OHS legislation, environmental legislation, manual handling procedures and relevant health regulations</li> <li>• Work may be performed in workplaces which are involved in the manufacture or restoration of mattresses and bases</li> </ul>
<b>Tools and equipment</b>	<ul style="list-style-type: none"> <li>• Tools and equipment are to include spring coiling machine and related tools</li> </ul>
<b>Materials</b>	Materials include but may not be limited to helical wire
<b>Personal protective equipment</b>	Personal protective equipment is to include that prescribed under legislation, regulation and enterprise policies and practices
<b>Information and procedures</b>	<ul style="list-style-type: none"> <li>• Workplace procedures relating to the use and operations of tools</li> <li>• Work instructions, including job sheets, plans, drawings and designs</li> <li>• Workplace procedures relating to reporting and communication</li> </ul>

## Unit Sector(s)

<b>Unit sector</b>	Mattress and Base Making
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## Competency field

<b>Competency field</b>	
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## Co-requisite units

<b>Co-requisite units</b>		