



Australian Government

MEM06006 Repair springs

Release: 1

MEM06006 Repair springs

Modification History

Release 1. Supersedes and is equivalent to MEM06006C Repair springs

Application

This unit of competency defines the skills and knowledge required to assess spring condition, set and reset springs for repair, set up and operate spring forming equipment, form and shape material and test components.

Equipment use does not include automated spring making equipment.

Where the interpretation of technical drawings is required unit MEM09002 Interpret technical drawing should also be selected.

Where the selection and use of engineering measurement is required unit MEM12023 Perform engineering measurements should also be selected.

Where the selection and use of power tools/hand held operations is required unit MEM18002 Use power tools/hand held operations should also be selected.

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

Band: A

Unit Weight: 4

Pre-requisite Unit

MEM06001	Perform hand forging
MEM06003	Carry out heat treatment
MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Competency Field

Forging

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, sketches, job sheets or work instructions
2	Assess spring condition	2.1	Check springs for correct operation and identify defects in accordance with SOPs
		2.2	Identify springs suitable for rework and the appropriate repair procedure
3	Set and reset springs for repair	3.1	Apply correct stripping procedure
		3.2	Allow for setting tolerances in set/reset of springs to specification
		3.3	Control correct temperature for setting/resetting springs
4	Set up and operate spring forming equipment	4.1	Set up and use equipment in accordance with procedures
		4.2	Position spring material and safety guards
		4.3	Select forming equipment and tools for given application
5	Form and shape material	5.1	Determine material lengths
		5.2	Taper, roll and bend material to conform to specifications
		5.3	Adopt correct procedure for hot and cold forming
		5.4	Make allowance for relief and spring-back

Elements describe the essential outcomes.

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

- | | | | |
|---|------------------------|-----|--|
| 6 | Test components | 6.1 | Determine spring compression from specifications |
| | | 6.2 | Determine any defects and confirm dimensional accuracy |
| | | 6.3 | Re-set non-conforming springs and adjust spring forming equipment as necessary |
| | | 6.4 | Nest springs to specification |

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

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, accessibility of the item, and local industry and regional contexts) are included.

Springs include one (1) or more of the following:

- laminated
- compression/coil
- plate

Equipment includes one (1) or more of the following:

- tapering
- coiling
- stripping and buckling
- spring testing machines

Material includes one (1) or more of the following:

- spring
- specialised steel

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM06006C Repair springs

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>