

Australian Government

MEM07007 Perform milling operations

Release: 2

MEM07007 Perform milling operations

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07007 Perform milling operations (Release 1).

Release 1. Supersedes and is equivalent to MEM07007C Perform milling operations.

Application

This unit of competency has been developed for Engineering Tradesperson - Mechanical apprenticeship training and the recognition of trade-level skills in using a range of milling machines to produce components to required tolerances and specifications using all types of accessories.

Skills covered by this unit are generally applied in occupational and work situations associated with trade-level fitting and machining work.

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

MEM07005	Perform general machining
MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM12023	Perform engineering measurements
MEM12024	Perform computations
MEM13015	Work safely and effectively in manufacturing and engineering
MEM14006	Plan work activities
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Competency Field

Machine and process operations

Elements and Performance Criteria

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.		
	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	
2	Prepare to undertake work	2.1	Determine sequence of operations to meet job specifications	
		2.2	Select tooling, using International Standard Organisation (ISO) standards or according to SOPs, to produce component to specification	
		2.3	Determine cutting parameters	
3	Perform milling operations	3.1	Carry out milling operations to produce components to specification	
		3.2	Undertake operations using conventional and/or climb milling techniques and a variety of cutters	
		3.3	Use the full range of standard accessories	
4	Check components	4.1	Check components for compliance with specifications	
		4.2	Rectify non-compliant product in accordance with SOPs	

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.

Milling machines include one (1) or more of the following:	verticalhorizontaluniversal types
Tooling includes one (1) or more of the following:	 slab gang end shell slot form slitting cutters
Instruments include one (1) or more of the following:	 manual and digital micrometres vernier calipers dial indicators scribing blocks
Cutting parameters include one (1) or more of the following:	setting up machinefeed and speed calculations
Accessories include the following:	 dividing heads rotary tables

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2