

MEM07013 Perform machining operations using horizontal and vertical boring machines

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07013 Perform machining operations using horizontal and vertical boring machines (Release 1).

Release 1. Supersedes and is equivalent to MEM07013B Perform machining operations using horizontal and/or vertical boring machines.

Application

This unit of competency defines the skills and knowledge required to perform horizontal and vertical boring operations on standard engineering materials using cutting tools and precision measuring instruments.

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		

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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.		
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, drawings, job sheets or work instructions	
2	Prepare to undertake work	2.1	Determine sequence of operations to meet job specifications	
		2.2	Select tools to produce component to specification using International Standard Organisation (ISO) or SOPs	
		2.3	Determine cutting parameters	
3	Perform boring operations	3.1	Carry out horizontal and vertical boring operations to drawing specifications	
		3.2	Check components for compliance with specifications	
		3.3	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.

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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.

Horizontal boring *machines include one (1) *or more of the following:

- table type
 - floor type

Vertical boring machines include one (1) or more of the following:

- double column single column
- Horizontal and vertical boring operations include one (1) or more of the following:
- parallel line and taper boring
- facingturning
- drilling
- reaming

Unit Mapping Information

Release 2. Supersedes and is equivalent to MEM07013 Perform machining operations using horizontal and vertical boring machines (Release 1).

Release 1. Supersedes and is equivalent to MEM07013B Perform machining operations using horizontal and/or vertical boring machines.

Links

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

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