



Australian Government

MEM07009 Perform precision jig boring operations

Release: 2

MEM07009 Perform precision jig boring operations

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07009 Perform precision jig boring operations (Release 1).

Release 1. Supersedes and is equivalent to MEM07009B Perform precision jig boring operations.

Application

This unit of competency defines the skills and knowledge required to perform precision jig boring operations using a range of jig boring and milling machines.

It applies to operations where a range of jig boring and milling machine tools and accessories are used to achieve a high level of precision in finished products.

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
MEM07007	Perform milling operations
MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM12003	Perform precision mechanical measurement
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.

- | | | | |
|---|-----------------------------------|-----|--|
| 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 |
| | | 2.2 | Select tools and accessories to meet job specifications |
| | | 2.3 | Set up job using appropriate measuring instruments |
| | | | |
| 3 | Perform jig boring | 3.1 | Bore holes relative to coordinate position and to specification |
| | | 3.2 | Use rotary or tilting rotary table, as required |
| | | | |
| 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.

Tools and accessories include one (1) or more of the following:

- cutting tools
- tool attachments
- harts and nomograms
- rotary table
- tilting rotary table

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

- dial test indicators
- digital read out equipment

Appropriate techniques include the following:

- measuring techniques and comparison methods

Unit Mapping Information

Release 2. Supersedes and is equivalent to MEM07009 Perform precision jig boring operations (Release 1).

Release 1. Supersedes and is equivalent to MEM07009B Perform precision jig boring operations.

Links

Companion Volume implementation guides are found in VETNet -

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