

MEM07016 Set and edit computer controlled machines and processes

Release: 2

MEM07016 Set and edit computer controlled machines and processes

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07016 Set and edit computer controlled machines and processes (Release 1).

Release 1. Supersedes and is equivalent to MEM07016C Set and edit computer controlled machines and processes.

Application

This unit of competency defines the skills and knowledge required to set and edit computer controlled machines and processes.

Work is performed to established processes, practices and specifications and machine operations, including welding, metal cutting, forming and shaping.

Technical difficulties are resolved in consultation with appropriate technical advisers.

Where setting and editing of computer controlled thermal cutting machines is required unit MEM05053 Set and edit computer controlled thermal cutting machines should also be selected.

Where additional machining skills in excess of unit MEM07005 Perform general machining are required then appropriate units 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: This unit has dual status and is to be regarded as both a Specialisation Band A unit and Specialisation Band B unit for progression to C7 (AQF level IV).

Unit Weight: 4

Pre-requisite Unit

MEM07015	Set computer	controlled	machines	and	processes
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MEM09002 Interpret technical drawing

MEM11011 Undertake manual handling

MEM12023 Perform engineering measurements

MEM12024 Perform computations

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MEM13015 Work safely and effectively in manufacturing and engineering

MEM14006 Plan work activities

MEM16006 Organise and communicate information

MEM18001 Use hand tools

Plus, one or more of the following, including their prerequisites:

MEM07005 Perform general machining

MEM07028 Operate computer controlled machines and processes

Competency Field

Machine and process operations

Elements and Performance Criteria

Elements describe the 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 Set work holding fixtures/devices/to ols
- 2.1 Select correct ancillary devices and attach to machine
- 2.2 Prepare machine to accept work holding devices
- 2.3 Set work holding fixtures/devices/tools to zero or a datum using appropriate setting devices
- 2.4 Measure tooling offsets and record in machine controller

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Elements describe the essential outcomes.

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

3 Trial program

- 3.1 Operate machine to produce first-off samples, observing all safety procedures
- 3.2 Check first-off samples for compliance with specifications
- 3.3 Undertake program editing to change speeds, feed and operational sequence requirements to ensure job conforms to specification
- 3.4 Replace tools, adjust tool offsets or take other corrective action using SOPs, where appropriate
- 3.5 Instruct operator, if necessary, ensuring that all safety procedures and devices are in place

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.

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

- numerically controlled (NC) machines
- computer numerically controlled (CNC) machines
- industrial robots

Unit Mapping Information

Release 2. Supersedes and is equivalent to MEM07016 Set and edit computer controlled machines and processes (Release 1).

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Release 1. Supersedes and is equivalent to MEM07016C Set and edit computer controlled machines and processes.

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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