



Australian Government

MEM18011 Shut down and isolate machines/equipment

Release: 1

MEM18011 Shut down and isolate machines/equipment

Modification History

Release 1. Supersedes and is equivalent to MEM18011C Shut down and isolate machines/equipment

Application

This unit of competency defines the skills and knowledge required to isolate and shut down machines and equipment and applies to situations that require extensive system knowledge that exclude the straightforward starting/stopping of machinery/equipment through the use of simple switching, including use of emergency switches.

All shutdown and isolation must comply with relevant regulations, Australian Standards and legislative requirements governing isolation and shutdown.

Where 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 tools is required unit MEM18001 Use hand tools and unit MEM18002 Use power tools/hand held operations should also be selected as appropriate.

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: 2

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

Competency Field

Maintenance and diagnostics

Elements and Performance Criteria

Elements describe the essential outcomes.

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

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|---|--|-----|---|
| 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, job sheets or work instructions |
| | | 1.5 | Identify any relevant regulations, Australian Standards and legislative requirements governing isolation and shutdown |
| 2 | Shut down and isolate machine/equipment | 2.1 | Determine machine/equipment operational function |
| | | 2.2 | Undertake shutdown/isolation sequence safely and to SOPs |
| | | 2.3 | Ensure machine/equipment is depressurised/emptied/de-energised/bled to SOPs |
| | | 2.4 | Verify safe shutdown/isolation of machine/equipment |
| | | 2.5 | Install safety/security lock-off devices and signage |
| | | 2.6 | Confirm shutdown and isolation complies with relevant regulations, Australian Standards and legislative requirements governing isolation and shutdown |

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

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| Shut down/isolate includes one (1) or more of the following: | <ul style="list-style-type: none">• isolation of mechanical and electrical drives• pipework (pressure)• rotating equipment utilising electrical lock-off isolators• mechanical and power driven valves |
| Machine/equipment includes one (1) or more of the following: | <ul style="list-style-type: none">• manual• semi-automatic• automatic machines of a stand-alone, continuous production or process nature |

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM18011C Shut down and isolate machines/equipment

Links

Companion Volume implementation guides are found in VETNet -

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