



**Australian Government**

# **MEM18010 Perform equipment condition monitoring and recording**

**Release: 1**

# MEM18010 Perform equipment condition monitoring and recording

## Modification History

Release 1. Supersedes and is equivalent to MEM18010C Perform equipment condition monitoring and recording

## Application

This unit of competency defines the skills and knowledge required to undertake condition monitoring of equipment, including recording the results.

It applies where specialist monitoring activities are undertaken as part of a preventive maintenance or total productive maintenance plan or program and monitoring is undertaken in workshop, laboratory or in situ environment.

Where only routine maintenance checking and diagnostic skills are applied see other appropriate units.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: B

Unit Weight: 4

## Pre-requisite Unit

|          |                                                              |
|----------|--------------------------------------------------------------|
| MEM09002 | Interpret technical drawing                                  |
| MEM11011 | Undertake manual handling                                    |
| MEM12023 | Perform engineering measurements                             |
| MEM13015 | Work safely and effectively in manufacturing and engineering |
| MEM16006 | Organise and communicate information                         |
| MEM18001 | Use hand tools                                               |
| MEM18002 | Use power tools/hand held operations                         |
| MEM18055 | Dismantle, replace and assemble engineering components       |

## 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.

- |                                         |                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 Determine job requirements</b>     | <ul style="list-style-type: none"><li>1.1 Follow standard operating procedures (SOPs)</li><li>1.2 Comply with work health and safety (WHS) requirements at all times</li><li>1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs</li><li>1.4 Identify job requirements from specifications, drawings, job sheets or work instructions</li></ul> |
| <b>2 Undertake condition monitoring</b> | <ul style="list-style-type: none"><li>2.1 Apply principles and methods of equipment condition monitoring</li><li>2.2 Select appropriate condition monitoring technique to achieve required outcomes</li><li>2.3 Undertake checks safely</li><li>2.4 Plot results and report deviations from specification to appropriate authority and record</li></ul>                     |

## 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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**Techniques include one (1) or more of the following:**

- built-in systems (software and site displays)
- vibration monitors
- infra-red and ultraviolet non-destructive testing

## 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>