



Australian Government

MEM18016 Analyse plant and equipment condition monitoring results

Release: 2

MEM18016 Analyse plant and equipment condition monitoring results

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM18016 Analyse plant and equipment condition monitoring results (Release 1).

Release 1. Supersedes and is equivalent to MEM18016B Analyse plant and equipment condition monitoring results.

Application

This unit of competency defines the skills and knowledge required to analyse condition monitoring results and develop recommendations based on the analysis. The data analysed is generated by a continuous plant and equipment condition monitoring program.

Where production of formal reports is required unit MEM16010 Write reports should also be selected.

Where production of reports of a technical nature is required unit MEM16014 Report technical information should also be selected.

Where equipment condition monitoring and recording only is required to be performed then unit MEM18010 Perform equipment condition monitoring and recording should be selected.

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
MEM12003	Perform precision mechanical measurement
MEM12023	Perform engineering measurements
MEM12024	Perform computations
MEM12025	Use graphical techniques and perform simple statistical computations
MEM13015	Work safely and effectively in manufacturing and engineering

MEM14006	Plan work activities
MEM16006	Organise and communicate information
MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations
MEM18003	Use tools for precision work
MEM18006	Perform precision fitting of engineering components
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.

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	Analyse condition monitoring results	2.1	Examine and analyse records/graphs/results of condition monitoring and identify problem areas
		2.2	Undertake necessary calculations/computations to determine indications of malfunction or impending failure
		2.3	Undertake appropriate reports/determinations of analyses to prescribed site SOPs

Elements describe the essential outcomes.

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

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| 3 | Develop recommendations | 3.1 | Develop recommendations based on previous history, results, specifications and any relevant legislative requirements |
| | | 3.2 | Report recommendations to appropriate authority |

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

No range of conditions provided for this unit.

Unit Mapping Information

Release 2. Supersedes and is equivalent to MEM18016 Analyse plant and equipment condition monitoring results (Release 1).

Release 1. Supersedes and is equivalent to MEM18016B Analyse plant and equipment condition monitoring results.

Links

Companion Volume implementation guides are found in VETNet -

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