MEM18016 Analyse plant and equipment condition monitoring results
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Modification History

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

3  **Develop**

   3.1  Develop recommendations based on previous history, results, specifications and any relevant legislative
Elements describe the essential outcomes. Performance criteria describe the performance needed to demonstrate achievement of the element.

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

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Links

Companion Volume implementation guides are found in VETNet -