



**Australian Government**

# **MEM30017 Use basic preventative maintenance techniques and tools**

**Release: 1**

# MEM30017 Use basic preventative maintenance techniques and tools

## Modification History

Release 1. Supersedes and is equivalent to MEM30017A Use basic preventative maintenance techniques and tools.

## Application

This unit of competency defines the skills and knowledge required to support the implementation of predictive or proactive preventative maintenance strategies in a manufacturing enterprise. It covers the common strategies of total productive/preventive maintenance and reliability-centred maintenance and common techniques and statistical tools.

The unit applies to engineering or related maintenance activities and is suitable for people giving technical support in manufacturing or engineering operations and those pursuing technical qualifications and careers at paraprofessional or technician level. All work is carried out under supervision.

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

## Pre-requisite Unit

Nil

## Competency Field

Engineering technician

## Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Interpret organisation maintenance strategy	1.1 Follow standard operating procedures (SOPs) and comply with work health and safety (WHS) requirements at all times 1.2 Obtain objectives and details of organisation maintenance strategy 1.3 Confirm major techniques and tools for monitoring used in the organisation
2. Use preventative maintenance techniques	2.1 Select techniques and tools and confirm in consultation with key stakeholders and supervisor

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
and tools	2.2 Identify key information and performance indicators required 2.3 Undertake data collection based on workplace needs
3. Interpret results	3.1 Compare actual information and/or performance indicators with target levels set by supervisors and/or equipment manufacturers 3.2 Develop required adjustments in consultation with key stakeholders and supervisor

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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.

Strategies include:	<ul style="list-style-type: none"> <li>total productive/preventive maintenance</li> <li>reliability centred maintenance.</li> </ul>
Techniques and tools include:	<ul style="list-style-type: none"> <li>root cause analysis (RCA)</li> <li>mean time between failures (MTBF)</li> <li>failure modes effects analysis (FMEA)</li> <li>condition monitoring not involving application of trade skills.</li> </ul>

## Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM30017A Use basic preventative maintenance techniques and tools.

## **Links**

Companion Volume implementation guides are found in VETNet -

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