



Australian Government

MSS405077 Develop a proactive maintenance strategy

Release: 1

MSS405077 Develop a proactive maintenance strategy

Modification History

Release 1. Unit code changed. Application changed. Performance Criteria changed. Foundation Skills populated. Range of Conditions removed. Assessment Requirements changed. Workplace outcome changed. Supersedes and is not equivalent MSS405081 Develop a proactive maintenance strategy and MSS405032 Analyse cost implications of maintenance.

Application

This unit describes the skills and knowledge required to develop and implement a proactive maintenance strategy, such as total productive maintenance (TPM) or reliability centred maintenance (RCM), for an organisation.

This unit applies to managers, technical specialists or those in similar roles with responsibility for selection of appropriate strategies, initial development and implementation as well as application of the strategies to new areas and the improvement of operation in existing areas.

This unit applies to any organisation that is implementing a proactive maintenance approach.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Competitive systems and practices

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine appropriate analytical techniques	1.1 Liaise with key stakeholders to determine objectives of maintenance strategy 1.2 Examine current maintenance situation to determine major areas requiring improvement 1.3 Calculate costs of maintenance situation 1.4 Compare possible strategies, techniques and tools against organisation needs 1.5 Estimate costs for different strategies 1.6 Select possible strategies, techniques and tools 1.7 Confirm selected strategies, techniques and tools with key

Elements	Performance Criteria
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	stakeholders
2. Develop reliability strategies	2.1 Select preferred maintenance strategy 2.2 Examine and adapt strategy to organisation needs and priorities 2.3 Examine and adapt techniques and tools required to implement strategy 2.4 Liaise with key stakeholders to develop an implementation plan 2.5 Identify key information and performance indicators relevant to strategy
3. Implement strategy	3.1 Determine data collection processes 3.2 Identify hardware and other resources required 3.3 Identify skills development needs in consultation with key stakeholders and initiate action to address needs 3.4 Confirm agreement on strategy with relevant managers and obtain any required authorisations 3.5 Coordinate activities required to implement strategy
4. Monitor implementation of strategy	4.1 Compare information and performance indicators with desired levels 4.2 Discuss strategy and implementation with key stakeholders to identify and resolve issues 4.3 Take action to adjust implementation and/or strategy, as required, in response to issues

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret workplace documentation
- Writing skills to document and communicate implementation plans
- Oral communication skills to facilitate engagement and participation
- Numeracy skills to determine and interpret KPIs, calculate and estimate costs.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>

Assessment Requirements for MSS405077 Develop a proactive maintenance strategy

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- develop and implement a proactive maintenance strategy for at least one work area or product family.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- maintenance strategies, techniques and tools appropriate to the organisation, their characteristics, strengths and weaknesses
- strategic thinking and its application to proactive maintenance
- principles of process equipment and how to improve its reliability
- resources required and how to obtain them
- overall equipment effectiveness (OEE)
- mean time between failure (MTBF)
- failure mode effects analysis (FMEA)
- condition monitoring
- cost components of maintenance strategies, including:
 - direct and indirect costs
 - techniques for estimating costs related to maintenance strategies
 - depreciation, capital versus expense
 - determination and use of present day value of future costs
 - life cycle costing
 - techniques to facilitate communication and agreement across levels and areas of the organisation.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources
- modelling of industry operating conditions.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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