



Australian Government

MSS404088 Undertake proactive maintenance analyses

Release: 1

MSS404088 Undertake proactive maintenance analyses

Modification History

Release 1. Unit code changed. Application changed. Performance Criteria changed. Foundation Skills populated. Assessment Requirements changed. Supersedes and is equivalent to MSS404085 Undertake proactive maintenance analyses.

Application

This unit describes the skills and knowledge required to undertake common forms of analyses associated with proactive maintenance strategies.

This unit applies to technical experts, technicians, engineers, tradespeople or other roles who are required to undertake analyses for predictive, preventative and/or reliability centred maintenance of plant and/or equipment. This includes undertaking a failure effects analysis in accordance with organisation's procedures.

This unit applies in any organisation that is implementing proactive maintenance as part of a competitive systems and practices strategy.

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. Liaise with operator	1.1 Establish relationship with operator of equipment 1.2 Check operator has required skills and resources to keep equipment clean 1.3 Check operator can monitor operation of the equipment 1.4 Communicate with operator about overall equipment effectiveness (OEE) of equipment 1.5 Involve operator, team leader and key personnel in identification of skill needs and means of skill acquisition to fill any identified gaps
2. Analyse history	2.1 Read maintenance records and analyse mean time between failures (MTBF)

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	2.2 Read and analyse performance data of equipment 2.3 Identify causes of changes to historic trends and status 2.4 Determine methods of ensuring causes of improvements and resolution of deterioration are locked in
3. Undertake failure effects analysis	3.1 Undertake analysis of failure effects and causes and record results 3.2 Investigate methods of eliminating possibility of failure and minimising probability of failure 3.3 Investigate methods of minimising impact when failure cannot be eliminated 3.4 Liaise with operator, team leader and key personnel regarding solution options 3.5 Select and implement solution/s
4. Undertake condition monitoring analysis	4.1 Obtain data for condition monitoring analysis 4.2 Read and interpret condition monitoring data 4.3 Predict required maintenance type and timing from condition monitoring data 4.4 Liaise with operator, team leader and key personnel regarding implications of condition monitoring report 4.5 Involve team members in development of changes to maintenance strategy to promote awareness, learning and commitment

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 condition monitoring reports, maintenance records
- Writing skills to document changes to maintenance strategy
- Oral communication skills to liaise with stakeholders, promote team engagement
- Numeracy skills to interpret and analyse performance data and information.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS404085 Undertake proactive maintenance analyses.

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 MSS404088 Undertake proactive maintenance analyses

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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:

- undertake proactive maintenance analyses of at least 2 items of plant or equipment

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- cleaning requirements and operational principles of equipment in area of responsibility
- methods of assessing operator and maintenance skill gaps and addressing them
- techniques for determining mean time between failures (MTBF)
- techniques for undertaking failure effects analysis
- principles of competitive systems and practices strategies being implemented and how to adapt them to maintenance
- root cause analysis
- techniques to analyse condition monitoring data.

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, including:
 - proactive maintenance processes and procedures.

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

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