



**Australian Government**

# **MSS405083 Adapt a proactive maintenance strategy for a seasonal or cyclical business**

**Release: 1**

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## **Modification History**

Release 1. Supersedes and is equivalent to MSS405083A Adapt a proactive maintenance strategy for a seasonal or cyclical business

## **Application**

This unit of competency applies to an individual responsible for developing a proactive maintenance strategy for an organisation that operates seasonal/cyclical plant and also adopts proactive maintenance strategies. The organisation will also usually be implementing other competitive systems and practices. Typical applications include many food processing enterprises, cotton ginning, sugar refineries, and so on. The unit covers changing the normal priority of some of the choices that need to be made in implementing a proactive maintenance strategy.

The unit applies to the selection of appropriate strategies; initial development and implementation will need to be managed as well as application of the strategies to new areas and the improvement of operation in existing areas. This would typically be done in a team environment and in consultation with all key stakeholders.

This unit requires the application of skills associated with problem solving, initiative, enterprise, planning and organising in order to adapt a proactive maintenance strategy to meet seasonal or cyclical needs of the enterprise. This work is done in the context of using computer technology and also requires aspects of self-management and learning to ensure improvement of own performance.

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

## **Pre-requisite Unit**

Nil

## **Competency Field**

Competitive systems and practices

## **Unit Sector**

Not applicable

## **Elements and Performance Criteria**

Elements describe the      Performance criteria describe the performance needed to

essential outcomes.	demonstrate achievement of the element.
1 <b>Interpret proactive maintenance strategy</b>	1.1 Analyse proactive maintenance strategy.
	1.2 Identify areas which may conflict with cyclical requirements.
	1.3 Identify critical conditions which must be met in order to maintain plant reliability until season end.
	1.4 Compile cycle requirements for proactive maintenance strategy.
2 <b>Identify cyclical requirements of the process</b>	2.1 Establish when the season finishes and the expected cycle duration.
	2.2 Identify plant items and maintenance activities which production imperatives dictate can only be completed after season end.
	2.3 Identify critical conditions which must be met in order to maintain plant reliability until season end.
	2.4 Compile cycle requirements for proactive maintenance strategy.
3 <b>Identify maintenance requirements of ancillary equipment</b>	3.1 Identify proactive maintenance requirements of ancillary equipment.
	3.2 Identify maintenance which can only be done at season end.
	3.3 Compile ancillary equipment requirements for proactive maintenance strategy.
4 <b>Identify maintenance requirements during season</b>	4.1 Identify critical maintenance activities which must be done during season.
	4.2 Negotiate conflicts with seasonal or cyclical processing requirements.
	4.3 Compile proactive maintenance strategy requirements during season.

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|---|---|-----|---|
| 5 | <b>Adapt proactive maintenance strategy</b> | 5.1 | Compare identified requirements to the proactive maintenance strategy.  |
|   |   | 5.2 | Negotiate a proactive maintenance strategy which meets these requirements.  |
|   |   | 5.3 | Involve team members in relating identified problems and opportunities for improvement to the maintenance strategy, and involve them in developing any required changes to ensure awareness, learning and commitment. |
|   |   | 5.4 | Monitor the implementation of the strategy to ensure the identified requirements are met.   |
|   |   | 5.5 | Make required adjustments and arrange review schedule.  |

## Foundation Skills

This section describes those required skills (language, literacy and numeracy) 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.

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| <b>Competitive systems and practices include one or more of:</b> | <ul style="list-style-type: none"><li>• lean operations</li><li>• agile operations</li><li>• preventative and predictive maintenance approaches</li><li>• statistical process control systems, including six sigma and three sigma</li><li>• Just in Time (JIT), kanban and other pull-related operations control systems</li><li>• supply, value, and demand chain monitoring and analysis</li><li>• 5S</li><li>• continuous improvement (kaizen)</li><li>• breakthrough improvement (kaizen blitz)</li><li>• cause/effect diagrams</li></ul> |
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- overall equipment effectiveness (OEE)
- takt time
- process mapping
- problem solving
- run charts
- standard procedures
- current reality tree.

**Critical conditions include one or more of:**

- maximum load factors
- lubrication schedules
- correct operating conditions, e.g. temperatures
- cleaning and waste removal schedules
- equipment inspection and test schedules
- development of standard operating procedures and training of operators.

**Ancillary equipment includes one or more of:**

- boilers
- utilities
- plants
- waste treatment and hazard control equipment (e.g. fire ring mains, fire monitors, steam curtains, gas (or other loss of containment) monitors, blast protection and flare stacks).

## Unit Mapping Information

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## Links

Companion Volume implementation guides are found in VETNet -

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