



Australian Government

MSS50116 Diploma of Sustainable Operations

Release 1

MSS50116 Diploma of Sustainable Operations

Modification History

Release 1. Supersedes and is equivalent to MSS50111 Diploma of Sustainable Operations.

Qualification Description

The MSS50116 Diploma of Sustainable Operations specifies the competencies required to work in a technical, supervisory or operational role in sustainability in an organisation and/or its value chain (e.g. suppliers of goods or services, or customers). The qualification has been developed with manufacturing operations as a focus. However, because of the range of organisations in a typical manufacturing value chain it may also be applied to other types of organisations.

This qualification provides the skills needed to measure current sustainability performance and to establish processes for improved sustainability performance within organisations. It complements but does not duplicate qualifications supplying technical skills related to engineering, chemical, environmental and other technical analyses that may be needed for improving sustainability. Where these skills are required appropriate qualifications from other Training Packages, such as the MEM05 Metal and Engineering, PMA Chemical, Hydrocarbons and Refining and MSM Manufacturing Training Packages, should be considered.

This qualification has no formal entry requirement due to the wide variety of sustainability applications in industry. However, most enterprises will expect technical skills relevant to their operations or equivalent vocational experience and for this reason the qualification is unlikely to be suitable for direct entry from school.

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

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

To be awarded the MSS50116 Diploma of Sustainable Operations, competency must be achieved in **twenty (20)** units of competency.

- **five (5)** core units of competency
- **fifteen (15)** elective units of competency, as specified below:
 - a minimum of **seven (7)** units from Group A
 - a minimum of **three (3)** units from Group B
 - the balance of units, to a maximum of **five (5)**, may be selected from:
 - Group A or B units, not previously selected
 - Group C elective units, listed below

A maximum of **four (4) Group C** elective units may be selected from this Training Package, other endorsed Training Packages and accredited courses, where those units are available at Diploma level. Units chosen should be relevant to the workplace and would normally be drawn from the appropriate sector Training Package, or possibly the Business Services Training Package.

Note: Units with prerequisites are marked with an asterisk*. Prerequisite units must be counted in the total number of units required for achievement of the qualification. Refer to individual units for details.

Core units of competency

Unit code	Unit title
MSS015001	Measure and report carbon footprint
MSS015002	Develop strategies for more sustainable use of resources
MSS015007	Develop a business case for sustainability improvements
MSS015008	Develop strategic sustainability plans
MSS015009	Implement sustainability plans

Elective units of competency

Group A

Unit code	Unit title	Prerequisites
MSS014001	Improve sustainability through readily implementable change	
MSS015003	Analyse product lifecycle for sustainability	
MSS015004	Design sustainable product or process	
MSS015005	Develop required sustainability reports	
MSS015006	Report to Global Reporting Initiative guidelines	
MSS015010	Conduct a sustainability water audit	
MSS015011	Conduct a sustainability energy audit	
MSS015012	Conduct an emissions audit	
MSS015013	Conduct a sustainability related transport audit	
MSS015014	Develop response to sustainability related regulation	
MSS015015	Evaluate sustainability impact of a process	
MSS015016	Implement and monitor reengineering for sustainability	
MSS015017	Develop regulated sustainability reports	
MSS015018	Inform and educate organisation and community representatives on sustainability issues	
MSS405070	Develop sustainable energy practices	
PMASUP520	Review procedures to minimise environmental impact of process	
PMASUP620	Manage environmental management system	

Group B

Unit code	Unit title	Prerequisites
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MSS015019	Establish/review metrics for social sustainability	
MSS025001	Assist with assessing site environmental indicators	*
MSS025002	Assess the environmental risk or impact of a project activity or process	*
MSS405010	Manage relationships with non-customer external organisations	
MSS405011	Manage people relationships	
MSS405012	Manage workplace learning	
MSS405013	Facilitate holistic culture improvement in an organisation	
MSS405014	Develop a communications strategy to support operations	
MSS405001	Develop competitive systems and practices for an organisation	
MSS405002	Analyse and map a value chain	
MSS405003	Manage a value chain	
MSS405004	Develop business plans in an organisation implementing competitive systems and practices	
MSS404052	Apply statistics to operational processes	
MSS405020	Develop quick changeover procedures	
MSS405021	Develop a Just in Time system	
MSS405031	Undertake value analysis of a product or process costs in terms of customer requirements	
MSS405032	Analyse cost implications of maintenance strategy	
MSS405040	Manage 5S system in an organisation	
MSS405041	Implement improvement systems in an organisation	
MSS405050	Determine and improve process capability	*
MSS405060	Develop the application of enterprise control systems in an organisation	

MSS405061	Determine and establish information collection requirements and processes	
MSS405062	Develop a documentation control strategy for an organisation	
MSS405075	Facilitate the development of a new product	*
MSS405081	Develop a proactive maintenance strategy	
MSMENV672	Develop workplace policy and procedures for sustainability	
MSMWHS510	Manage risk	

Group C

Unit code	Unit title	Prerequisites
MSS014007	Implement social sustainability in work practices	
MSS024003	Apply an understanding of environmental principles to a site	
MSS403010	Facilitate change in an organisation implementing competitive systems and practices	
MSS403001	Implement competitive systems and practices	
MSS402030	Apply cost factors to work practices	
MSS402060	Use planning software systems in manufacturing	
MSS402061	Use SCADA systems in operations	
MSS402080	Undertake root cause analysis	
MSS403023	Monitor a levelled pull system of operations	
MSS403051	Mistake proof an operational process	
MSS404053	Use DMAIC techniques	
MSS404060	Facilitate the use of planning software systems in a work area or team	
MSS404081	Undertake proactive maintenance analyses	
MSMSUP390	Use structured problem solving tools	

Qualification Mapping Information

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Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>