



Australian Government

MSS015022 Develop strategies for more sustainable use of resources

Release: 1

MSS015022 Develop strategies for more sustainable use of resources

Modification History

Release 1. Updated unit code. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Application

This unit describes the skills and knowledge to identify strategies for more sustainable uses of resources. The unit includes the identification of waste (muda) as part of a strategy for achieving better sustainability outcomes in a process as well as quantifying theoretical and actual resource (including energy) consumption.

This unit applies inside organisations and their value chains and specifically applies to the use of resources as part of an overall response to improving sustainability.

Where the carbon footprint (or water footprint or similar) of an organisation or value chain is known, the unit can be applied to developing strategies for the reduction of that footprint. A manager or technical specialist who has a major responsibility for sustainability as part of a broader work role would typically undertake this, or sustainability may be their primary work responsibility.

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

Pre-requisite Unit

Nil

Competency Field

Sustainable operations

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 **Quantify resource**

1.1 Identify all significant resources used by process

1.2 Identify consumption measurements available for each

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
	consumption		resource
		1.3	Quantify consumption for each resource
2	Quantify resource loss	2.1	Determine theoretical consumption of each resource
		2.2	Compare theoretical consumption with actual consumption
		2.3	Quantify loss (emission) for each resource
3	Recommend strategies for reducing muda (waste)	3.1	Short-list high emission process steps
		3.2	Analyse process to identify emission steps or locations
		3.3	Determine root cause of emission
		3.4	Investigate methods for reducing emission
		3.5	Develop strategies and recommendations for improvement
4	Prepare resources use audit report	4.1	Identify purpose of report and key stakeholders
		4.2	Compile data, implications and recommendations
		4.3	Consult with stakeholders
		4.4	Write and present report

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.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS015002 Develop strategies for more sustainable use of resources.

Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

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

Assessment Requirements for MSS015022 Develop strategies for more sustainable use of resources

Modification History

Release 1. Updated unit code. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Performance Evidence

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

- quantified significant resource consumption and emission using materials balancing for at least 1 organisation or value chain, including developing strategies for reducing emissions and preparing and presenting a resources use audit report.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the concept of muda (waste) and muda categories
- muda reduction methods and strategies
- methods and uses of material balancing
- methods and uses of energy balancing
- methods of comparing theoretical with actual resource consumption
- methods for mapping processes and resources consumed
- methods of measuring actual resource usage
- AS/NZS ISO 14001 Environmental Management Systems or its authorised replacement.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions, contingencies, facilities, equipment and resources.

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

Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

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