



**Australian Government**

# **MSS014016 Evaluate sustainability impact from a work area or process**

**Release: 1**

# MSS014016 Evaluate sustainability impact from a work area or process

## Modification History

Release 1. Unit code changed. Unit title changed. Application changed. Elements changed. Performance Criteria changed. Foundation Skills populated. Assessment Requirements changed. Supersedes and is not equivalent to MSS014009 Evaluate sustainability impact of a work or process area.

## Application

This unit describes the skills and knowledge required to evaluate the impact on sustainability arising from a defined section of a work area or process and recommend improvements.

This unit applies to the evaluation of a section of a value chain that is totally within the boundaries of a selected work area or process in order to identify its broad sustainability impacts and make recommendations for mitigating negative sustainability impacts.

This unit applies to team leaders, maintenance staff, technicians, managers and others who have some responsibility for the sustainability outcomes of a team and/or work area.

This unit applies to any organisation.

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

Sustainable operations

## 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. Define the work area or process to be evaluated                   | 1.1 Identify the boundaries of the process or work area to be evaluated<br>1.2 Identify all process steps within the boundaries<br>1.3 Identify the change which occurs at each step<br>1.4 Define sustainability interactions at each step |
| 2. Determine impacts on sustainability from the work area or process | 2.1 Identify organisation's sustainability goals as they relate to the process or work area<br>2.2 Identify sustainability sensitivities at each step in the process or                                                                     |

| Elements                                                      | Performance Criteria                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.                     | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                              |
|                                                               | work area<br>2.3 Identify sustainability issues at each step in the process or work area<br>2.4 Estimate the sustainability impact of sensitivities and issues identified<br>2.5 Short-list sustainability issues and/or sensitivities with probable high negative impact                                                                                                    |
| 3. Recommend changes to reduce negative sustainability impact | 3.1 Determine root cause of each short-listed item<br>3.2 Determine possible solutions to root causes and alternative mitigation strategies<br>3.3 Estimate resources required for solution and mitigation options<br>3.4 Rank solution and mitigation options by desirability<br>3.5 Recommend preferred options in accordance with organisational procedures and protocols |

## 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 and information about approaches to sustainability
- Writing skills to communicate familiar and unfamiliar workplace information
- Oral communication skills to discuss sustainability issues and sensitivities and possible solutions and mitigation strategies with people at different levels of the organisation
- Numeracy skills to perform calculations using time, quantities, fractions and percentages
- Learning skills to identify and interpret information about approaches to sustainability.

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

## Unit Mapping Information

Release 1. 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 MSS014016 Evaluate sustainability impact from a work area or process

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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:

- evaluate at least 5 process steps within a work area or process to determine the sustainability impacts of each step
- develop recommendations to solve or mitigate at least 3 sustainability sensitivities and/or issues with probable high negative impact.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- sustainability process mapping
- process and changes which occur within the process
- direct and indirect environmental impacts of materials, resources and energy used and emitted (wasted)
- current and emerging approaches to quantifying and evaluating costs, benefits, impacts and risks in relation to sustainability including direct, indirect and intangible factors
- current and emerging approaches to sustainability and circularity in the industry
- types of incremental and radical change for sustainability relevant to the work area or process
- systems approach to identifying sustainability sensitivities and issues in all areas impacted by the work area or process
- root cause analysis and problem solving
- simple cost-benefit analysis techniques as applied to sustainability
- factors that may affect desirability ranking
- sustainability-related regulatory and reporting requirements relevant to the work area or process.

## 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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