



Australian Government

MSS015031 Conduct a sustainability related transport audit

Release: 1

MSS015031 Conduct a sustainability related transport audit

Modification History

Release 1. Updated unit code. Changes to performance criteria. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Application

This unit describes the skills and knowledge to conduct an audit for the specific resource of transport and to develop recommendations to improve the sustainability of transport operations.

This unit applies to organisations and their value chains that are seeking to determine their current and desirable future use of transport resources as part of a sustainable strategy.

The transport audit may be conducted individually or as part of a team. The need for a transport audit may be the result of an organisation's own decisions to increase the sustainability of its operations or be required for regulatory or other purposes. 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 Identify all transport used | 1.1 Define boundaries of value chain or part of value chain to be analysed |
| | 1.2 Identify all transport to a site |
| | 1.3 Identify all transport within a site |

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
		1.4	Identify all transport from a site
2	Analyse transport requirements	2.1	Identify current specifications for required transport
		2.2	Identify transport that is not essential to product or process as defined from the perspective of a customer
		2.3	Identify transport arrangements used which are inefficient
		2.4	Determine transport required to increase utility
3	Determine total cost of transport	3.1	Calculate direct financial cost of transport
		3.2	Determine emissions from transport
		3.3	Calculate working capital costs of transport
		3.4	Calculate cost impost of transport which does not meet requirements
		3.5	Calculate costs of transport which does not increase utility
4	Develop strategies for reducing the use of the resource/material	4.1	Rank transport by total costs
		4.2	Rank unnecessary transport by total costs
		4.3	Develop strategies to reduce total transport costs
5	Prepare a recommendation for a resource use reduction strategy	5.1	Consult with key stakeholders
		5.2	Identify strategies required to meet regulatory requirements
		5.3	Rank strategies by cost benefit ratio
		5.4	Short-list preferred transport improvement strategies

Elements describe the essential outcomes.

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

5.5 Prepare recommendations for improving transport

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 MSS015013 Conduct a sustainability related transport audit.

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 MSS015031 Conduct a sustainability related transport audit

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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:

- conducted at least 1 sustainability related transport audit across one or more organisations or value chains and prepared recommendations for improved transport.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- value chain and transport within the value chain
- modes of transport used within and external to site
- alternative modes of transport which could achieve same outcomes
- requirements of transport to meet required outcomes (transport specifications)
- muda (waste) as used in competitive systems and practices
- utility as a concept and as applied to transport
- transport emissions
- working capital, including inventory costs of transport
- methods of calculation of costs
- transport inefficiencies
- strategies for reducing transport and transport costs
- cost benefit calculation.

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.

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