



Skills for Sustainability



Manufacturing Skills Australia



# Sustainability Skills Resources

**The Sustainability Skills resources will help Registered Training Organisations (RTOs) to build their capacity to deliver sustainability skills for their clients. The resources explain many of the key concepts in sustainability and the range of sustainability issues across different sectors and business processes.**

## Sustainable Operations

Every business is under pressure to become more efficient and competitive in order to sustain its own future. The business also needs to sustain its supplies and its workforce in order to remain viable. It needs to respond to market demands for clear and accurate information about its sustainability track record. These all contribute to achieving 'sustainable operations'.

The Sustainable Operations qualifications in the MSS Sustainability Training Package provide skills for frontline managers, middle and senior managers, technicians and similar roles with a responsibility for planning, implementing and monitoring sustainability within the organisation's operations. The qualifications show how to adapt typical business systems and strategy to manage sustainability risks and reap the benefits of opportunities. Sustainable Operations can be applied in any business in any sector.

## What are the resources?

The Sustainability Skills resources target the ten core units of competency from the Sustainable Operations qualifications. They recognise that qualifications typically provide additional skills for people with existing 'core' job skills - for example, in technical, management and production areas. Therefore the qualifications will most often be delivered and assessed in a workplace environment. The resources focus on a workplace context and target several key areas of support for RTOs.

### Interpreting the core units

There is a web page for each core unit, explaining the key concepts and terminology in the unit and the intent and level of the unit.

### Designing an assessment

There is a downloadable Assessment guide for each core unit, with an example of an assessment method and evidence based on a fictional scenario.

NB: The Assessment Guides align to the older MSS11 versions of the core units and do not take into account the Assessment Requirements of the newer units.

### Concepts that apply across units and levels

These guides cover five concepts that are used across multiple units of competency and levels in the Sustainable Operations qualifications. The guides explain the basic concepts and explain how they might be applied across levels and in different contexts. The guides are:

- About mass and energy balancing
- About metrics
- About carbon sources and sinks
- About root cause analysis
- About quantifying benefits and costs.

### Sustainability issues in the sectors

The Sustainability sector guides highlight that there can be very different combinations of sustainability issues facing each sector or even each business.

The guides focus on six manufacturing sub-sectors and use these as examples. Each guide presents a process flow that is typical to the sector and maps the sustainability issues to the process steps. It then provides a more detailed analysis of the significant sustainability risks in the process.

These guides give an indication of sustainability issues within a sector or parts of a sector; focusing on one or two processes that might be used. The 'sectors' covered are:

- cement and concrete
- clothing
- furnishings (furniture making)
- metal casting and forging
- metal fabrication
- textiles (fabric production).

For each sector there is also a web page with links to sector-specific information that can assist RTOs to do further research on sustainability issues in the sectors.



## How can RTOs use the resources?

The Sustainability Skills resources can be used or adapted in any number of ways. The resources have been designed to help RTOs to:

- consult with industry
- develop their training and assessment strategies
- develop contextualised learning and assessment materials
- effectively deliver skills for sustainability using the Sustainable Operations qualifications.

The resources might also be useful as a starting point for research into specific sectors, concepts or techniques or as a model for identifying sustainability risks.



## Which units are covered in the resources?

MSA has developed resources to help RTOs deliver the MSS Sustainable Operations qualifications. The resources are aligned to the core units of competency from the three Sustainable Operations qualifications:

- **MSS80116 Graduate Certificate in Sustainable Operations**
  - MSS017001 Analyse and determine organisational risk areas in sustainability
  - MSS017004 Lead sustainable strategy deployment
- **MSS50116 Diploma of Sustainable Operations**
  - 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
- **MSS40116 Certificate IV in Sustainable Operations**
  - MSS014001 Improve sustainability through readily implementable change
  - MSS014002 Evaluate sustainability impact of a work or process area
  - MSMENV472 Implement and monitor environmentally sustainable work practices

Access the free resources from [www.sustainabilityskills.net.au](http://www.sustainabilityskills.net.au)

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