



**Australian Government**

# **Assessment Requirements for MSS015042 Measure and report carbon footprint**

**Release: 1**

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## Modification History

Release 1. Unit code changed. Unit title changed. Application changed. Performance Criteria changed. Foundation Skills populated. Assessment Requirements changed. Supersedes and is not equivalent to MSS015021 Measure and report carbon footprint of a product or product class.

## 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:

- determine carbon footprint of a portion of a value chain that comprises at least:
  - 3 process steps
  - 3 sources of emissions
- prepare written report which interprets carbon footprint data and includes at least one recommendation to reduce emissions.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- process and changes which occur at each step in selected portion of value chain
- types of carbon emissions, including:
  - gases, vapours and fumes
  - liquids
  - solids
  - assumed emissions through material balancing
  - assumed emissions through energy loss, including heat, friction and other energy conversion yield losses
  - greenhouse gases, including those defined under the Kyoto protocol
- carbon emission sources and sinks
- application of carbon equivalence conversion factors
- root cause analysis
- design thinking as applied to problem solving and innovation for sustainability
- current and emerging methods of reducing carbon emissions and embodied carbon
- current and emerging approaches to reducing waste including:
  - identifying, retaining and/or managing residual resources
  - biological materials flow
  - technical materials flow

- impact of supply chain decisions
- role of digitalisation
- sustainability-related regulatory and reporting requirements relevant to the industry
- sustainability-related voluntary standards, codes, certification and co-regulatory arrangements relevant to the industry.

## **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.

## **Links**

Companion Volume Implementation Guides are found in VETNet - -

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