



**Australian Government**

# **Assessment Requirements for MSS015011 Conduct a sustainability energy audit**

**Release: 1**

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## **Assessment Requirements for MSS015011 Conduct a sustainability energy audit**

### **Modification History**

Release 1. Supersedes and is equivalent to MSS015011A Conduct a sustainability energy audit.

### **Performance Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include the ability, for one or more processes, to:

- define appropriate boundaries for the sustainability energy audit
- conduct energy balance analyses for a site, value chain or process
- identify high energy use/waste units/areas
- undertake benefit/cost ratio analyses
- ensure improvement strategies proposed reflect stakeholder needs and regulatory environment.

### **Knowledge Evidence**

Must provide evidence that demonstrates sufficient knowledge to interact with relevant personnel and be able to audit energy usage including knowledge of:

- nature of energy wastage
- energy balancing techniques for process and process steps (sometimes known as heat balancing)
- methods of measuring actual process amount/flows
- waste reduction/energy efficiency strategies and methods along with costs, effectiveness and alternative strategies (e.g. efficient lighting, efficient window glass and efficient motors)
- cost-benefit analysis
- relevant legislation, regulation and protocols.

### **Assessment Conditions**

- The unit should be assessed holistically and the judgement of competence shall be based on a holistic assessment of the evidence.
  - The collection of performance evidence is best done from a report and/or folio of evidence drawn from:
    - a single project which provides sufficient evidence of the requirements of all the elements and performance criteria
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- multiple smaller projects which together provide sufficient evidence of the requirements of all the elements and performance criteria.
  - A third party report, or similar, may be needed to testify to the work done by the individual, particularly when the project has been done as part of a project team.
  - Assessment should use a real project where a sustainability energy audit is conducted for an operational workplace.
  - Knowledge evidence may be collected concurrently with performance evidence or through an independent process such as workbooks, written assessments or interviews (provided a record is kept).
  - Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
  - Conditions for assessment must include access to all tools, equipment, materials and documentation required including relevant workplace procedures, product and manufacturing specifications associated with this unit.
  - Foundation skills are integral to competent performance of the unit and should not be assessed separately.
  - Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
  - The assessor must demonstrate both technical competency and currency.
  - Technical competence can be demonstrated through:
    - relevant VET or other qualification/Statement of Attainment AND/OR
    - relevant workplace experience
  - Currency can be demonstrated through:
    - performing the competency being assessed as part of current employment OR
    - having consulted with an organisation providing relevant environmental monitoring, management or technology services about performing the competency being assessed within the last twelve months.

## **Links**

Companion Volume implementation guides are found in VETNet -

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

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