



**Australian Government**

# **Assessment Requirements for MEM23148 Develop energy management solutions**

**Release: 1**

# Assessment Requirements for MEM23148 Develop energy management solutions

## Modification History

Release 1. Supersedes and is equivalent to MEM23148A Develop energy management solutions.

## 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:

- identifying and interpreting drawings and specifications appropriate to developing energy management solutions
- implementing work health and safety (WHS) procedures and practices, including the use of risk control measures
- demonstrate the use of software tools related to carrying out an energy audit of a building
- monitoring data of a building management system (BMS) and implementing energy management procedures for a building on at least two occasions
- planning and conducting an energy audit on at least two occasions, applying testing and data collection procedures and applying methods of energy conservation
- determining electrical load control and adjusting heating, ventilation, air conditioning and refrigeration (HVACR) system control settings on at least two occasions
- communicating technical and procedural requirements to others
- dealing with unexpected situations.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

## Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- WHS requirements
- appropriate personnel to consult
- energy usage within a multi-storey building including major energy-consuming plant
- criteria for determining selection and relevance of data for energy audits
- energy auditing process
- implementing energy management procedures for a building
- BMS attributes including functions, hardware, inputs and outputs
- contemporary methods in best practice in managing energy usage
- environmental requirements
- organisational procedures
- resource and equipment requirements.

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## Assessment Conditions

- Assessors must:
  - have vocational competency in developing energy management solutions at least to the level being assessed with relevant industry knowledge and experience
  - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015 or its replacement* and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required including relevant workplace procedures, product and manufacturing specifications.
- 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.
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## Links

Companion Volume Implementation Guides are available on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>