



Australian Government

**Assessment Requirements for UEERE0087
Provide basic sustainable energy solutions
for energy management in residential
premises**

Assessment Requirements for UEERE0087 Provide basic sustainable energy solutions for energy management in residential premises

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

This unit replaces and is not equivalent to UEERE0021 Provide basic sustainable energy solutions for energy reduction in residential premises. Modifications include:

- Unit title changed
- Unit application updated
- Significant amendments made to Elements and Performance Criteria
- Range of conditions updated
- Significant amendments to Performance and Knowledge Evidence
- Assessment conditions updated.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures and practices
- planning monitoring activities based on stakeholder needs/expectations and site requirements
- conducted monitoring activities in accordance with agreed plan
- compiling energy use, loss and generation inventories
- collating and analysing monitoring data and comparing performance against baseline
- identifying relevant government initiatives that can contribute to solution/s
- determining, documenting and justifying energy management recommendations based on analysis
- completing required reporting.

Knowledge Evidence

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

- concepts of renewable energy (RE), including:
 - non-technical issues including current economic, social, environmental and political issues impacting on RE technology
 - energy services/demand for domestic dwellings including:

- terminology
- energy, power, temperature, symbols and units
- energy generation, grid types and storage
- sustainability of different energy sources
- energy conversion and efficiency
- energy consuming equipment including:
 - types
 - energy rating schemes and labelling
- emerging technologies renewable energy technologies including:
 - types
 - applications
 - benefits and limitations
 - generation resource
- stand-alone power system configuration including:
 - basic configuration series systems
 - components: functions, efficiencies, regulators, inverters, battery chargers and generators
- relevant industry standard energy consumption measurements and calculations
- sustainable energy solutions for energy reduction in residential premises
- relevant manufacturer specifications
- relevant WHS/OHS requirements
- relevant workplace documentation, policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in suitable simulated workplace operational situations that replicate workplace conditions.

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.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- resources that reflect current industry practices in relation to providing basic sustainable energy solutions for energy reduction in residential premises
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>