



**Australian Government**

# **Assessment Requirements for UEERE0050**

## **Identify and isolate multiple supply systems**

**Release: 1**

# Assessment Requirements for UEERE0050 Identify and isolate multiple supply systems

## Modification History

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

## 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 one occasion and include:

- applying relevant legislation, regulations, standards, codes of practice and workplace requirements including:
  - work health and safety (WHS)/occupational health and safety (OHS)
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- assessing worksite including:
  - locating switchboard/s and circuits
  - locating and interpreting site specific information
  - locating inverter energy systems (IES) and supply systems
  - applying awareness of unidentifiable supply systems
  - identifying and locating isolation devices
  - identifying and locating supply systems conductors
- shutting down and isolating supply systems for at least two (2) of the following:
  - renewable energy IES
  - grid connected IES with stand-alone functionality
  - stand-alone IES
  - engine driven
- returning supply systems to normal operation for at least two (2) of the following:
  - renewable energy IES
  - grid connected IES with stand-alone functionality
  - stand-alone IES
  - engine driven
- isolating multiple supply systems in accordance with workplace and regulatory requirements, including:
  - applying safe isolation practices
  - identifying correct isolation device/s
  - identifying live conductors
  - correctly using testing equipment

- confirming systems are isolated
- tagging-out all supplies
- testing re-energised supply systems for correct operation and electrical safety
- confirming documented shutdown and start up procedures are correct including:
  - notifying appropriate person/s of any inconsistencies in the procedures
- dealing with an unplanned event.

## 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:

- relevant legislation, regulations, standards, codes of practice and workplace requirements including:
  - WHS/OHS
  - hazard, risk assessment and risk control requirements including potential hazards
  - potential injuries caused by multiple supply systems
  - notification to relevant person/s of shutting down and starting up supply systems
  - safe use of tools and equipment including:
    - testing equipment
- electrical isolation including:
  - anti-islanding
  - unidentifiable supply systems
  - need for ensuring the safe isolation of an electrical supply
  - isolation devices used in IES
  - tagging and lockout
  - central protection systems
- characteristics, operations and safety functions of multiple supply systems including:
  - renewable energy IES
  - grid connected IES with stand-alone functionality
  - stand-alone IES
  - engine driven
- types and location of labelling for multiple supply systems
- site specific information including:
  - operational information
  - manuals
  - drawings
  - labelling
  - shutdown procedures and start up procedures
  - notification of inconsistencies in shutdown and start up procedures
- working safely with electricity including:

- hazards of direct current (d.c.) and alternating current (a.c.) electricity
- effects of electric shock on the body
- precautions to minimise the chance of electric shock
- procedures for emergency involving electricity
- common causes of electrical accidents.

## 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 workplace operational situations, where it is appropriate to do so.

Where this is not appropriate, assessment must occur in simulated conditions involving realistic and authentic activities that replicate operational 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:

- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace requirements, relevant industry standards, 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>