



**Australian Government**

**UEERE0077 Install battery storage  
equipment power conversion equipment to  
grid**

**Release: 1**

# **UEERE0077 Install battery storage equipment power conversion equipment to grid**

## **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 UEERE4001 Install, maintain and fault find battery storage systems for grid-connected photovoltaic systems. Modifications include:

- Unit title changed
- Unit application updated
- Prerequisites changed
- Significant amendments made to Elements and Performance Criteria
- Range of conditions updated
- Significant amendments to performance and knowledge evidence requirements and CVIG content developed
- Assessment conditions updated.

## **Application**

This unit involves the skills and knowledge required to install battery storage equipment power conversion equipment (PCE) to grid.

It includes working safely and to industry installation standards, placing and securing system components accurately, making required circuit connections and completing the necessary installation documentation.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations, which are designed to operate at voltages greater than 50 volt (V) alternating current (a.c.) or 120 V direct current (d.c.).

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, a relevant contract of training, such as an Australian Apprenticeship, is required.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

Note: Those holding an Unrestricted Electrician's Licence or equivalent issued in an Australian state or territory meet the prerequisite requirements of UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories. All other prerequisite requirements must be met.

## Pre-requisite Unit

UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories

UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems

## Competency Field

Renewable and Sustainable Energy

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

### **1 Plan for the installation of battery storage equipment PCE to grid**

- 1.1** Nature of the installation is verified from design documentation and any design concerns identified are referred to designer
- 1.2** WHS/OHS processes and procedures for work are identified and applied in accordance with workplace procedures
- 1.3** Hazards associated with battery storage systems are identified and the risk control measures are listed in safe work method statements/job safety analysis
- 1.4** Work is planned in consultation with the customer and others impacted by the work and sequenced appropriately
- 1.5** Designer recommendations, relevant industry standards, regulations and manufacturer specifications are identified and applied to planning the system installation
- 1.6** Materials, tools, equipment and measuring devices required for installation are obtained in accordance with workplace procedures and checked for correct

- operation and safety
- 2 Install battery storage equipment PCE to grid**
- 1.7** Live testing, measurement and isolation requirements determined and applied in accordance with WHS/OHS requirements and workplace procedures
  - 2.1** Job safety analysis is undertaken or safe work method statement is prepared and used to inform work processes in accordance with regulations and workplace procedures
  - 2.2** Energy storage system components are installed in compliance with industry standards, regulations and job/manufacture specifications, and with sufficient access to enable terminations, adjustment and maintenance
  - 2.3** Wiring is terminated at components and associated equipment in accordance with manufacturer specifications and functional and regulatory requirements
  - 2.4** System components are programmed in accordance with design, relevant industry standards, regulations and manufacturer specifications
  - 2.5** Quality checks of installed apparatus are conducted in accordance with workplace procedures
  - 2.6** Testing and commissioning of the system is conducted in accordance with design documentation, regulations, relevant industry standards and manufacturer specifications
  - 2.7** Worksite is cleaned and made safe in accordance with workplace procedures
  - 2.8** ‘As-installed’ system and associated equipment are documented, manuals produced, and system is handed over to required person/s as per legislation, regulations, industry standards and job requirements

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Installation of battery storage equipment PCE to grid must include:

- installation of a section 5 or 6 system.

## Unit Mapping Information

This unit replaces and is not equivalent to UEERE4001 Install, maintain and fault find battery storage systems for grid-connected photovoltaic systems.

## Links

Companion Volume Implementation Guides are found in VETNet -

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