



Australian Government

UEPOPS046 Maintain battery banks and cells

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry - Generation Sector Training Package Release 2.0.

Application

This unit involves the skills and knowledge required to undertake the maintenance of all battery cells or banks.

Batteries store energy so that it can be used when needed. Batteries can be charged, discharged and recharged several times. The types of equipment supported by batteries in a power generation facility can include emergency lighting systems and alarm and protection systems.

Competency in this unit requires the ability to plan and prepare for battery cell/bank maintenance work, conduct tests on battery cell/bank, analyse results of tests to determine capability, perform routine maintenance, report abnormalities and document work when completed. Individuals will, in general, work as an operator, in a power generation facility.

Power generation plant operators are trained and authorised to isolate, prepare plant and issue permits to work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

There are no prerequisite units.

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Plan and prepare for work**
- 1.1** Work requirements are identified from relevant personnel, documentation and site inspection in accordance with workplace procedures
 - 1.2** Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored
 - 1.3** Resources are obtained and inspected for compliance with job specification in accordance with workplace procedures
 - 1.4** Relevant plans, drawings and manuals are selected and used in accordance with workplace procedures
 - 1.5** Size, type and quantity of materials and components are obtained and inspected in accordance with workplace procedures
 - 1.6** Work is sequenced and prioritised in accordance with workplace procedures
 - 1.7** Potential hazards and risk control measures are selected and implemented in accordance with safety data sheets (SDS) processes and workplace procedures
 - 1.8** Work area is prepared in accordance with workplace procedures
- 2 Conduct tests on battery cell/bank**
- 2.1** Battery cell and/or bank is inspected prior to testing to ensure absence of any damage and defects in accordance with workplace procedures
 - 2.2** Tests are carried out to determine battery cell or bank condition in accordance with workplace procedures
 - 2.3** Test results are recorded and analysed to determine battery cell and/or bank capabilities in accordance with workplace procedures
 - 2.4** Testing and measurement instruments are used in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 2.5** Faults found are documented and reported to relevant personnel in accordance with workplace procedures

- 3 Conduct maintenance on battery cell/bank**
- 3.1** Isolations are confirmed in accordance with workplace procedures
 - 3.2** Battery cell and/or bank is maintained using plans, drawings and manuals in accordance with workplace procedures
 - 3.3** Cleaning or adjustments are carried out on battery cell and/or bank in accordance with workplace procedures
 - 3.4** Maintenance and adjustments are carried out in accordance with workplace procedures
 - 3.5** Final inspection is carried out in accordance with workplace procedures.
- 4 Complete work**
- 4.1** Battery cell and/or bank work is completed and relevant personnel notified in accordance with workplace procedures
 - 4.2** Work area is cleared of waste, cleaned, restored and secured in accordance with workplace procedures
 - 4.3** Battery cell and/or bank tools and equipment are maintained and stored in accordance with workplace procedures

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 may be found in the UEP Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS238 Maintain battery banks and cells.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>