



**Australian Government**

# **UEPOPS238 Maintain battery banks and cells**

**Release: 1**

# UEPOPS238 Maintain battery banks and cells

## Modification History

**Release 1.** This is the first release of this unit of competency in the UEP Generation Training Package.

## 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 its capability, perform routine maintenance, report abnormalities and documenting work when completed. Individuals will, in general, work as an operator, in a power generation facility.

Power generation plant operators are typically 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.

### **Note: Workplace practice**

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

## Pre-requisite Unit

There are no prerequisite units.

## Competency Field

Operations

## Unit Sector

Electricity generation

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

#### **1 Plan and prepare for work**

- 1.1** Requirements are identified from work order and is confirmed with appropriate personnel and/or by site inspection, in accordance with workplace procedures
- 1.2** Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations 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** Correct size, type and quantity of materials and/or components are obtained and inspected, in accordance with workplace procedures
- 1.6** Work is sequenced and prioritised, in accordance with workplace procedures and site requirements
- 1.7** Potential hazards and risk control measures are selected and implemented, in accordance with workplace procedures and Material Safety Data Sheets (MSDS) processes
- 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 or 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

- |   |            |   |
|---|------------|---|
|   | <b>2.4</b> | Testing and measurement instruments are used, in accordance with manufacturers' specifications and workplace procedures |
|   | <b>2.5</b> | Faults found are documented and reported to appropriate personnel, in accordance with workplace procedures              |
| <b>3 Conduct maintenance on battery cell/bank</b> | <b>3.1</b> | Isolations are confirmed, where appropriate, in accordance with workplace procedures                                    |
|   | <b>3.2</b> | Battery cell and/or bank is maintained using plans, drawings and manuals in accordance with workplace procedures        |
|   | <b>3.3</b> | Cleaning or adjustments are carried out on battery cell and/or bank, in accordance with workplace procedures            |
|   | <b>3.4</b> | Maintenance and adjustments are carried out, in accordance with workplace procedures                                    |
|   | <b>3.5</b> | Final inspection is carried out, in accordance with workplace procedures.   |
| <b>4 Complete work</b>                            | <b>4.1</b> | Battery cell and/or bank work is completed and relevant personnel are notified, in accordance with workplace procedures |
|   | <b>4.2</b> | Work area is cleared of waste, cleaned, restored and secured, in accordance with workplace procedures                   |
|   | <b>4.3</b> | 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 Companion Volume Implementation Guide.

## Unit Mapping Information

This unit replaces and is equivalent to UEPOPS238B 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>