



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

Elements describe the essential outcomes.

1 Plan and prepare for work

PERFORMANCE CRITERIA

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

- 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

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| | 2.4 | Testing and measurement instruments are used, in accordance with manufacturers' specifications and workplace procedures |
| | 2.5 | Faults found are documented and reported to appropriate personnel, in accordance with workplace procedures |
| 3 Conduct maintenance on battery cell/bank | 3.1 | Isolations are confirmed, where appropriate, 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 are 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 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>

Assessment Requirements for 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.

Performance Evidence

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

- applying maintenance techniques to repair faults
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations including:
 - emergency procedures
 - risk control measures
 - safe working procedures
- communicating with personnel
- complying legislation, industry standards, codes of practice and regulations
- interpreting drawings and manufacturers' specifications' and manuals
- maintaining battery cell and/or bank equipment
- reporting findings
- selecting equipment and material
- testing battery cell or bank using diagnostic and data analysis techniques
- using Safety Data Sheets (SDS)/Material Safety Data Sheets (MSDS)
- using testing and measurement instruments to identify faults and abnormalities
- utilising permit to work system
- working with isolation procedures

Knowledge Evidence

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

- battery cell or bank testing and maintenance procedures
- battery plant operation
- isolations
- maintenance techniques
- manufacturers' specifications and manuals

- permit to work system
- safety and hazard precautions
- Safety Data Sheets (SDS)/Material Safety Data Sheets (MSDS)
- testing and fault finding techniques
- workplace documentation
- WHS/OHS legislated requirements including:
 - applying isolation procedures
 - emergency procedures
 - risk control measures
 - safe working procedures
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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