

Unit ID: 2509	
Domain	ELECTRICAL INSTALLATION
Title:	Maintain batteries, battery rooms and/or battery tripping units (BTU)
Level: 3	Credits: 6

Purpose

This unit standard is intended for those who maintain batteries, battery rooms and/or tripping units (BTU). People credited with this unit standard are able to plan and prepare for work; inspect, clean and record data of a battery; inspect and clean battery room or tripping unit; and clean-up work area.

This unit standard is intended for those who work in electrical workplace environment.

Special Notes

1. Entry information:
 - Prerequisite
 - *None*
2. Assessment evidence may be collected from a real workplace or a simulated workplace environment in which electrical operations are carried out.
3. To demonstrate competence, at a minimum, evidence is required of the interpretation of safety symbolic signs and successful rectification of faults.
4. Performance of all elements in this unit standard must comply with manufacturers' specifications, workplace specific requirements and reasonable.
5. Glossary of terms:
 - 'NESC' - Namibian Electricity Safety Code
6. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 11, 2007
 - Regulations relating to the health & safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007 and all subsequent amendments.
 - Namibian Electricity Safety Code
 - Electricity Act No. 4 of 2007

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority.

Elements and Performance Criteria

Element 1: Plan and prepare for work

- 1.1 Work instructions, including plans, specifications, job cards, quality requirements and operational details are obtained, confirmed and interpreted.
- 1.2 Work area is inspected and prepared according to legislative requirements.
- 1.3 Tools and equipment selected to carry out tasks are consistent with job requirements, checked for serviceability, and any faults are rectified or reported prior to commencement.
- 1.4 Safety requirements are followed in line with safety plans and policies.
- 1.5 Personal protective equipment (PPE) is selected and in accordance with the legislative requirements.
- 1.6 Signage and barricade requirements are identified and implemented, where necessary.
- 1.7 Battery bank or unit is selected and isolated where necessary according to work instruction.
- 1.8 Affected parties are informed and liaised with as per local communication procedures.
- 1.9 Authorisation is obtained and battery room or tripping unit is accessed according to worksite procedures.
- 1.10 Material quantity requirements are calculated in line with plans, specifications and quality requirements.
- 1.11 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Inspect, clean and record data of a battery

Range

Battery readings includes Voltage, specific gravity and temperature.

Performance Criteria

- 2.1 Cells are inspected and cleaned according to standards and manufacturer requirement.
- 2.2 Battery readings are recorded according to standards and manufacturer requirement.
- 2.3 Defects and abnormalities are recorded and reported.
- 2.4 Knowledge of cleaning equipment, measuring equipment and inspecting are demonstrated.

Element 3: Inspect and clean battery room or tripping unit

Performance Criteria

- 3.1 Battery room or tripping unit equipment is inspected and cleaned according to worksite procedure.
- 3.2 Safety equipment is tested in accordance with worksite procedure.
- 3.3 Personal protective equipment is used throughout inspecting and cleaning of battery room or tripping unit.
- 3.4 Cleaning material and debris are removed as per worksite procedure.
- 3.5 Regulatory signs are fixed and readable as per NESC.
- 3.6 Doors are closed and locked as per safety requirements and security procedure.
- 3.7 Documentation is completed and all defects are reported to the designated personnel.

Element 4: Clean-up work area

Performance Criteria

- 4.1 Work area is cleared, cleaned, restored and secured in line with workplace procedures.

- 4.2 Tools and equipment are cleaned, checked and stored in line with manufacturer specifications and workplace procedures.
- 4.3 Materials and wastes are disposed of, reused, or recycled in accordance with legislation, regulations, codes of practice and job specifications.

Registration Data

Subfield:	Electrical Engineering
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