

Domain ELECTRICAL POWER LINES INSTALLATION

Title: Perform distribution line pole erection

Level: 3

Credits: 6

Purpose

This unit standard is intended for those who perform distribution line pole erection. People credited with this unit standard are able to plan and prepare for work; transport pole to installation site; perform pole setting; erect or retire pole; and clean-up work area.

This unit standard is intended for those who work as electrician linesman.

Special Notes

1. Entry information:

Prerequisite

- *Unit 1157 - Demonstrate basic knowledge of workplace health and safety*

2. To demonstrate competence, at a minimum, evidence is required of the erecting and retiring a pole. Performing these tasks requires correct identification of requirements, selection and use of appropriate processes, tools and equipment and completing all work to specification.

3. Assessment evidence may be collected from a real workplace or an appropriate simulated realistic environment in which transmission line pole are is installed.

4. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' and company guidelines, instructions, and reasonable flat rate time.

5. Glossary of terms:

- *'Isolation and lockout procedures'* refer to isolating an electrical circuit from the source of supply
- *'Specifications'* refers to any, or all of the following: manufacturers' specifications and recommendations, workplace specific requirements, national and international standards and legislations
- *'ISO'* refers to International Organization for Standards
- *'SANS'* refers South African National Standards.

6. Regulations and legislation relevant to this unit standard include the following:

- Labour Act No. 11 of 2007
- Petroleum Products and Energy Amendment Act No. 2 of 2005
- National Energy Fund Act of 2000
- Gas Act (Draft 2b)

- Regulations relating to the health & safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007
- ISO 14001 (Environmental Management Standard)
- Electricity Act No.4 of 2007
- SANS 10142-1 and SANS 10142-2 electrical wiring codes and all subsequent amendments to any of the above.

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 on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Plan and prepare for work

Performance criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and interpreted.
- 1.2 Signage and barricade requirements are identified and implemented, where necessary.
- 1.3 Personal protective equipment is selected in line with job and safety requirements
- 1.4 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.
- 1.5 Material quantity requirements are calculated in line with plans, specifications and quality requirements.
- 1.6 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Transport pole to installation site

Performance Criteria

- 2.1 Loading procedure for poles is performed following safety requirements.
- 2.2 Unloading procedure for poles is performed in line with workplace procedures.

2.3 Poles are hauled and dragged in line with workplace procedures.

Element 3: Perform pole setting

Performance Criteria

- 3.1 Pole setting procedure is performed in line with job requirements.
- 3.2 Pole grounding is performed in line with workplace procedures.

Element 4: Erect or retire pole

Performance Criteria

- 4.1 Pole erection procedure is performed in line with job requirements.
- 4.2 Pole retiring procedures is performed in line with job requirements.

Element 5: Clean-up work area

Performance Criteria

- 5.1 Work area is cleared, cleaned, restored and secured in line with workplace procedures.
- 5.2 Tools and equipment are cleaned, checked and stored in line with manufacturer specifications and workplace procedures.
- 5.3 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
Date first registered:	24 July 2014
Date this version registered:	23 November 2023
Anticipated review:	23 November 2028
Body responsible for review:	Namibia Training Authority