

Domain	TELECOMMUNICATION AND WIRELESS TECHNOLOGY	Unit ID: 2292
Title:	Install underground cables in telecommunications environment	
Level: 5		Credits: 8

Purpose

This unit standard is intended for those who install underground cables in telecommunications environment. People credited with this unit standard are able to plan and prepare for work, haul underground cable, install an underground enclosure, and complete work and clean up.

This unit standard is intended for those who work in the telecommunication and wireless technology working environment.

Special notes

1. Entry information:

Prerequisites:

- None

2. This unit standard is to be delivered and assessed in the context of information and communication technology.
3. Assessment evidence may be collected from a real or a simulated workplace in which telecommunication and wireless technology operations are carried out.
4. Tools and equipment may include but are not limited to computer, external devices, storage devices and other and basic computer applications.
5. Performance of all elements in this unit standard must comply with industry standards.

2. 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 to South African National Standards.
3. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act No. 11, 2007
 - Petroleum Products and Energy Amendment Act, 2000

- Occupational Health and Safety Regulations No. 18, 1997 and all subsequent amendments
- ISO 14001 (Environmental Management Standard)
- Petroleum (Exploration and Production) Amendment Act 1993 (Act 2 of 1993)
- Electricity Act, 2000 (Act No. 2 of 2000)
- 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

Range

Planning and preparation is to include but is not limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are identified and adhered to.
- 1.4 Tools and equipment are selected according to requirements of the job,
- 1.5 Faulty tools and equipment are checked for serviceability.
- 1.6 Required material quantities to the work application are identified, obtained, prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements are identified and applied.

Element 2: Haul underground cable

Range

Hauling equipment includes but is not limited to cable cars and cable winches.

Performance Criteria

- 2.1 Underground cable accessories are assembled according to manufacturers' instructions.
- 2.2 Underground cable accessories are fitted and installed according to workplace procedures and manufacturers' instructions.
- 2.3 Cables are hauled according to manufacturers' procedures.

Element 3: Install an underground enclosure

Range

Underground enclosures include and are not limited to manholes, handheld, ducts and trunking.

Performance Criteria

- 3.1 Underground enclosures are constructed according to workplace procedures.
- 3.2 Underground cable accessories are installed according to manufacturers' instructions.
- 3.2 Underground cable accessories are commissioned according to manufacturers' instructions.

Element 4: Complete work and clean up

Performance Criteria

- 4.1 Work is completed and appropriate 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 Reusable material is collected and stored in accordance with workplace procedures.
- 4.4 Tools and equipment are cleaned, checked and maintained in accordance with workplace procedures.
- 4.5 Work completion details are finalised in accordance with workplace procedures.

Registration Data

Subfield:	Information and Communication Technology
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Body responsible for review:	NTA