

<b>Domain</b>	<b>TELECOMMUNICATION AND WIRELESS TECHNOLOGY</b>	<b>Unit ID: 2295</b>
<b>Title:</b>	<b>Maintain telecommunication cables</b>	
<b>Level: 5</b>		<b>Credits: 6</b>

### Purpose

This unit standard is intended for those who maintain telecommunication cables. People credited with this unit standard are able to plan and prepare for work, assess condition of telecommunication cables and accessories, replace faulty cables and accessories 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:

- '*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.

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

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

- 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](http://www.namqa.org) and the Namibia Training Authority on [www.nta.com.na](http://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 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: Assess condition of telecommunication cables and accessories**

#### **Range**

Assessment on appliance or equipment condition includes functional testing, measurements, visual, aural and functional assessment (including damage, corrosion, leakage, wear) in line with manufacturers' requirements and specifications.

#### **Performance Criteria**

- 2.1 Portable appliance and equipment condition assessment is implemented in accordance with legislative requirements, workplace procedures and manufacturers' specification.
- 2.2 Measurement results are compared with manufacturers' specifications.
- 2.3 Results of portable appliance and equipment condition assessment are documented with evidence and supporting information and recommendation is made in line with workplace procedures.
- 2.4 Report on portable appliance and equipment condition assessment is processed according to workplace procedures.

### **Element 3: Replace faulty cables and accessories**

#### **Performance Criteria**

- 3.1 Faulty underground cables are identified according to manufacturer's procedures.
- 3.2 Faulty underground cable accessories are identified according to manufacturer's procedures.
- 3.3 Faulty overhead cables are identified according to manufacturer's procedures.
- 3.4 Serviceability of components is determined in line with manufacturers' specifications and workplace procedures.
- 3.5 Faulty overhead cable accessories are replaced and tested according to manufacturer's procedures.
- 3.6 Faulty underground cable accessories are replaced and tested according to manufacturer's procedures.
- 3.7 Cables are commissioned and transmission is restored according to workplace procedures.

### **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**

<b>Subfield:</b>	Information and Communication Technology
<b>Date first registered:</b>	30 July 2020
<b>Date this version registered:</b>	30 July 2020
<b>Anticipated review:</b>	2025
<b>Body responsible for review:</b>	NTA