

Domain	TELECOMMUNICATION AND WIRELESS TECHNOLOGY	Unit ID: 2277
Title:	Demonstrate knowledge of telecommunications cables and accessories	
Level: 3		Credits: 6

Purpose

This unit standard is intended for those who demonstrate knowledge of telecommunications cables and accessories. People credited with this unit standard are able to explain different types of telecommunication cables; explain different types of telecommunication cable accessories; and describe installation methods and procedures.

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

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: Explain different types of telecommunication cables

Range

Types of copper cables may include but not limited to, twisted pair copper cables (UTP, FTP & STP), coaxial cables and aerial copper cables.

Types of optical fibre cables may include but not limited to plastic optic fiber, glass optic fiber (single mode and multi-mode).

Performance Criteria

- 1.1 Types of copper cables are explained.
- 1.2 Types of optical fibre cables are explained.

Element 2: Explain different types of telecommunication cable accessories

Range

Overhead/ underground line and accessories include and not limited to insulators, supports, lightning arrester, cross arms and dampers.

Performance Criteria

- 2.1 Overhead line accessories are located and identified in line with workplace procedures.
- 2.2 Overhead line accessory functions are described in line with workplace procedures.
- 2.3 Underground line accessories are located and identified in line with workplace procedures.
- 2.4 Underground line accessory functions are described in line with workplace procedures.

Element 3: Describe installation methods and procedures

Range

Cable damage includes and is not limited to; crushing, burning, kinking, sheath twist, cutting and nicking.

Performance Criteria

- 3.1 Cable handling techniques are explained in accordance with manufacturer's application including tension and bending stress requirements.
- 3.2 Different cable installation methods are identified and explained.

- 3.3 Sources of possible damage to cables are identified and avoided.
- 3.4 Cable routes are determined to comply with telecoms industry standards and customer requirements.

Registration Data

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