

Domain	TELECOMMUNICATION AND WIRELESS TECHNOLOGY	Unit ID:2279
Title:	Apply knowledge of broadband technologies	
Level:4		Credits: 8

Purpose

This unit standard is intended for those who apply knowledge of broadband technologies. People credited with this unit standard are able to identify the types of broadband technologies, describe and identify broadband technology connection types and install broadband devices.

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.

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

- Labour Act 2007(Act No 11, 2007)
- Regulations relating to the health and Safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007 and all subsequent amendments.

Quality Assurance Requirements

This unit standard and others within this sub-field 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: Identify types of broadband technologies

Range

Broadband performance may include but not limited speed, environment, connection and hardware.

Performance Criteria

- 1.1 Wired broadband technologies are explained and described.
- 1.2 Wireless broadband technologies are explained and described.
- 1.3 Purpose of broadband technologies is outlined.
- 1.4 Factors affecting broadband performance are explained and analysed.

Element 2: Describe and identify connection types of broadband technology

Range

Broadband technology connection types may include but not limited to Digital Subscriber Line (DSL), Cable Modem, Fiber, Wireless, Satellite and Broadband over Powerlines (BPL).

Performance Criteria

- 2.1 Types of connection in a wired broadband technology are identified and explained.
- 2.2 Types of connection in a wireless broadband technology are identified and explained.
- 2.3 Environmental factors affecting types of connection are explained.
- 2.4 Deployment and installation methods are outlined and described.

Element 3: Install broadband devices

Performance Criteria

- 3.1 Health and safety measures are identified when installing broadband devices.
- 3.2 Installation tools are identified, classified and grouped according to functions.
- 3.3 Broadband devices to be installed are selected.

- 3.4 Supporting equipment are identified and explained.
- 3.5 Broadband device is installed and configured.
- 3.6 Media testers are identified, classified and grouped according to functions.
- 3.7 Performance and quality of broadband devices is verified according to specifications.

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:	Namibia Training Authority