

Domain	TELECOMMUNICATION AND WIRELESS TECHNOLOGY	Unit ID: 2280
Title:	Demonstrate an understanding of mobile operating modes	
Level: 4		Credits:6

Purpose

This unit standard is intended for those who demonstrate an understanding of mobile operating modes. People credited with this unit standard are able to demonstrate an understanding of simplex, demonstrate an understanding of half-duplex, demonstrate an understanding of full duplex and demonstrate an understanding of signal-to-noise and distortion ratio (SINAD).

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.

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: Demonstrate an understanding of Simplex

Performance Criteria

- 1.1 Simplex communication is explained.
- 1.2 Diagrammatic representation of simplex communication is illustrated.
- 1.3 Applications and functions of simplex communication are outlined.

Element 2: Demonstrate an understanding of Half-Duplex

Performance Criteria

- 2.1 Half-Duplex communication is explained.
- 2.2 Diagrammatic representation of half-duplex communication is illustrated.
- 2.3 Applications and functions of half-duplex communication are outlined.

Element 3: Demonstrate an understanding of full duplex

Performance Criteria

- 3.1 Full duplex communication is explained.
- 3.2 Diagrammatic representation of full duplex communication is illustrated.
- 3.3 Applications and functions of full duplex communication are outlined.

Element 4: Demonstrate an understanding of Signal-to-noise and distortion ratio (SINAD)

Performance Criteria

- 4.1 SINAD is explained.
- 4.2 Power of noise, signal and distortion is explained.

4.3 Quality of signal using formula is demonstrated.

4.4 Receiver sensitivity is explained.

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