

UNIT ID: 2287	
Domain	TELECOMMUNICATION AND WIRELESS TECHNOLOGY
Title:	Demonstrate an understanding of different types of signals application and communication system
Level: 5	Credits: 10

Purpose

This unit standard is intended for those who demonstrate an understanding of different types of signals application and communication system. People credited with this unit standard are able to demonstrate an understanding of digital and analog signals, formulate graphical representation of analog and digital communication systems, describe the applications of analog communication systems and describe the applications of digital communication systems

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 & 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 analog and digital signals

Performance Criteria

- 1.1 Analog signal and quantities are illustrated.
- 1.2 Analog modulation techniques are interpreted.
- 1.3 Digital signal and quantities are illustrated.
- 1.4 Digital modulation techniques are interpreted.

Element 2: Formulate graphical representation of analog and digital communication systems.

Range

Elements of a basic communication system may include but not limited to input transducer, transmitter, channel, receiver and output transducer.

Performance Criteria

- 2.1 Elements of analog communication system are outlined.
- 2.2 Elements of digital communication system are outlined.
- 2.3 Noise effect on communication systems is explained.
- 2.4 Block diagrams of communication systems are illustrated.

Element 3: Describe the Applications of Analog Communication Systems

Performance Criteria

- 3.1 Applications of analog communication system are outlined and explained.
- 3.2 Analog communication process is explained.

Element 4: Describe the Applications of Digital Communication Systems

Performance Criteria

- 4.1 Applications of digital communication system are outlined and explained.
- 4.2 Digital communication process 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