

Domain	NETWORKING	UNIT ID:2300
Title:	Install Local Area Network (LAN) and Wide Area Network (WAN)	
Level: 4		Credits: 9

Purpose

This unit standard is intended for those who install Local Area Network and Wide Area Network. People credited with this unit standard are able to design network layout, demonstrate an understanding of the installation procedures for LAN and WAN, demonstrate an ability to prepare for the installation of network element, demonstrate an ability to install network element and demonstrate an ability to conclude an installation.

This unit standard is intended for those who work in the networking environment.

Special Notes

1. Entry information:

Prerequisites:

- Unit ID: 2327 Recognise pc equipment and accessories
2. Assessment evidence may be collected from a real or a simulated workplace in which networking operations are carried out.
 3. Tools and equipment may include but are not limited to computer, external devices, storage devices and other and basic computer applications.
 4. Performance of all elements in this unit standard must comply with industry standards.
 5. 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: Design network layout

Performance Criteria

- 1.1 Network diagrams are sketched according to instructions.
- 1.2 Network layout is illustrated.

Element 2: Demonstrate an understanding of the installation procedures for LAN and WAN

Performance Criteria

- 2.1 System installation procedures are explained.
- 2.2 Network diagram, hardware layout, technical requirements, building access requirements and termination of cables are explained.
- 2.3 Acquisition/procurement procedures are outlined.

Element 3: Demonstrate an ability to prepare for the installation of network element

Performance Criteria

- 3.1 Work order and installation documents are created and/or obtained in accordance with employer's policies and procedures.
- 3.2 Site location and work instruction are interpreted as per work order.
- 3.3 Site inspection is performed in accordance with employer's policies and procedures.
- 3.4 Site preparation for installation is performed as per work order and installation documentation.
- 3.5 Material, equipment and tools for the installation are prepared as per work instructions.

Element 4: Demonstrate an ability to install network element

Performance Criteria

- 4.1 Installation activities are scheduled as per work order.
- 4.2 Network mediums and interfaces are identified and selected.

- 4.3 Cables and wires are erected / hauled into position as per work instruction.
- 4.4 Equipment are installed and connected as per work instruction.
- 4.5 Power source/supply is connected to the equipment according to equipment/system specifications.
- 4.6 Network devices and IP address configurations are applied.
- 4.7 Health and Safety requirements are adhered to in accordance with statutory requirements and employer's policies and procedures are adhered to.

Element 5: Demonstrate an ability to conclude an installation

Range

Network standards may include but is not limited to Institute of Electrical and Electronics Engineers (IEEE).

Performance Criteria

- 5.1 Network connectivity tests are performed.
- 5.2 Network standards and quality requirements are complied with.
- 5.3 Network documentation is created in accordance with employer's policies and procedures.
- 5.4 Commissioning and hand over process are 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