

Domain	NETWORKING	UNIT ID: 2307
Title:	Perform operations on Internet Protocol (IP) networks	
Level: 5		Credits: 11

Purpose

This unit standard is intended for those who perform operations on Internet Protocol (IP) networks. People credited with this unit standard are able to demonstrate an understanding of Internet Protocol (IP) networks, connect Internet Protocol (IP) networks, report and record network element performance/faults/alarms/anomalies, liaise, co-ordinate and communicate with internal clients, customer and/or vendors and manage daily activities.

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

Special Notes

1. Entry information:

Prerequisites:

- None

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 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 Internet Protocol (IP) networks

Performance Criteria

- 1.1 Local Area Network (LAN) and Wide Area Networks (WAN) are explained with reference to IP network theory.
- 1.2 Voice over Internet Protocol (VoIP) is explained with reference to IP theory.
- 1.3 Data communications and data transfer protocols are defined with reference to basic data communication theory.
- 1.4 IP addresses are analysed and calculated with reference to IP theory as per instructions

Element 2: Connect Internet Protocol (IP) networks

Performance Criteria

- 2.1 Network devices are connected at the physical layer in accordance with instructions.
- 2.2 Network devices are configured at the network layers of the network in accordance with instructions.
- 2.3 Network connectivity test is performed.

Element 3: Report and record network element performance/faults/alarms/anomalies

Performance Criteria

- 3.1 Procedures on the processing of faults/alarms/anomalies are described and explained.
- 3.2 Procedures on record keeping are explained and described.
- 3.3 Prioritising of faults/anomalies and alarms are explained.
- 3.4 Gathering of information for statistical purposes is explained and described.
- 3.5 Faults/anomalies and alarms are accessed and processed according to system response and work instructions.
- 3.6 Network element performance/faults/alarms/anomalies records are created.
- 3.7 Statistical information is gathered for analysis purposes.
- 3.8 Faults/anomalies and alarms are prioritised according to work instructions.

Element 4: Liaise, co-ordinate and communicate with internal clients, customer and/or vendors

Performance criteria

- 4.1 Internal client/customer/vendor requirements are identified.
- 4.2 Information to internal clients, customer and/or vendors is communicated.

Element 5: Manage daily activities

Performance criteria

- 5.1 Daily activities and schedules are prioritised according to requirements.
- 5.2 Records are updated and maintained as per internal clients, customer and/or vendors.

Registration Data

Subfield:	Information and Communication Technology
Date first registered:	30 July 2020
Date this version registered:	30 July 2020
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Body responsible for review:	Namibia Training Authority