	UNIT ID: 2303
Domain	**NETWORKING**
Title:	**Demonstrate an understanding of fault tolerance and disaster recovery**
Level: 4	**Credits: 7**

Purpose

This unit standard is intended for those who demonstrate an understanding of fault tolerance and disaster recovery. People credited with this unit standard are able to demonstrate an understanding of fault tolerance, demonstrate an understanding of disaster recovery, and demonstrate an understanding of disaster recovery planning.

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 & 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 fault tolerance

Range

Fault tolerance characteristics may include but are not limited to power, link redundancy, storage and services.

Performance Criteria

1.1   Purpose of fault tolerance is explained and outlined.

1.2   Types of faults and failure occurrence models are explained.

1.3   Redundancy and replication is explained.

1.4   Fault tolerance characteristics are outlined. .

Element 2: Demonstrate an understanding of disaster recovery

Range

Tiers of disaster recovery may include but not limited to off-site data, electronic vaulting, point-in-time copies and transaction integrity.
Types of Disaster Recovery may include but not limited to synchronous and asynchronous.

Performance Criteria

2.1   Purpose of disaster recovery are explained and outlined.

2.2   Recovery Point Objective (RPO) and Recovery Time Objective (RTO) are explained.

2.3   Tiers of disaster recovery are explained.

2.4   Types of Disaster Recovery (DR) are explained.

Element 3: Demonstrate an understanding of Disaster Recovery (DR) planning

3.1   Disaster Recovery (DR) plan is explained.

3.2   Business Continuity Plan (BCP) is outlined.

3.3   DR plan updating 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