

		Unit ID: 2334
Domain	INFORMATION AND COMMUNICATION TECHNOLOGY- FOUNDATION	
Title:	Demonstrate an understanding of database architecture and functions	
Level: 2		Credits: 10

Purpose

This unit standard is intended for those who demonstrate understanding of database architecture and functions. People credited with this unit standard are able to demonstrate an understanding of database usage, perform database creation, enter and manipulate data in a database and produce database output.

This unit standard is intended for those who work in the information and communication technology environment.

Special Notes

1. Entry information:

Prerequisites:

- None

2. Assessment evidence may be collected from a real workplace or a simulated workplace in which ICT operations are carried out.

3. Glossary of terms

- *Database* – is information organized in such a way that a computer program can quickly select pieces of data.
- *Manipulate data* – is the process of re-sorting, rearranging and otherwise moving your data, without fundamentally changing it.

4. Performance of all elements in this unit standard must comply with industry standards

5. Specifications 'refers to any, or all of the following: manufacturer's specifications, recommendations, specific instructions and specific task requirements.

6. Regulations and legislation relevant to this unit standard include the following:

- Labour Act 2007(Act no 11,2007).
- Workplace specific policies and regulations.

- 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 database usage

Range

Database structures may include but are not limited to tables, columns, primary key, foreign key, fields, etc.

Performance Criteria

- 1.1 Database is explained.
- 1.2 Use of database is explained.
- 1.3 Database structures are outlined.

Element 2: Perform database creation

Range

Database structures may include but are not limited to tables, columns, primary key, foreign key, fields, etc.

Performance Criteria

- 2.1 Database application is launched.
- 2.2 Database structure is created.
- 2.3 Keys in the database structure are defined.

Element 3: Enter and manipulate data in a database

Range

Data capturing methods may include but are not limited to insert statements, wizard and import.

Query statements methods may include but are not limited to query builder and writing statements.

Performance Criteria

- 3.1 Table in database is created.
- 3.2 Data is captured in database.
- 3.3 Forms in database are created.
- 3.4 Query statements are created.
- 3.5 Views are created.

Element 4: Produce database output

Performance Criteria

- 4.1 Reports are created.
- 4.2 Printing of report is demonstrated.

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