

Unit ID: 2505	
Domain	ELECTRICAL ENGINEERING - CORE
Title:	Demonstrate knowledge of hydraulic and pneumatic principles
Level: 2	Credits: 4

Purpose

This unit standard is intended for those who demonstrate. People credited with this unit standard are able to demonstrate knowledge of hydraulic and pneumatic principles.

This unit standard is intended for those who work in electrical workplace environment.

Special Notes

1. Entry information:
 - Prerequisite
 - *Unit 1157 - Demonstrate basic knowledge of workplace health and safety*
2. Assessment evidence may be collected from a real workplace or a simulated workplace environment in which electrical operations are carried out.
3. Performance of all elements in this unit standard must comply with manufacturers' specifications, workplace specific requirements and reasonable.
4. Regulations and legislation relevant to this unit standard include the following:
 - Labour 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 subfield 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 and the Namibia Training Authority. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority

Elements and Performance Criteria

Element 1: Demonstrate knowledge of hydraulic and pneumatic principles

Range

Tools may include but not limited to crimping and cutting tools.

Hydraulic and pneumatic components include but not limited to pumps, reservoirs, pressure regulators, instrumentation, piping, seals, connectors, valves, manometers, actuators, cylinders, relief valves and drives.

Performance Criteria

- 1.1 Hydraulic and pneumatic tools are identified and selected.
- 1.2 Hydraulic and pneumatic circuit diagrams, related components and ISO symbols are interpreted.
- 1.3 Hydraulic and pneumatic components are identified and selected.
- 1.4 Fundamental concepts and principles of hydraulic and pneumatic are explained.
- 1.5 Applications, working pressure, functions, distinct features, and characteristics of various hydraulic and pneumatic components are explained and demonstrated.

Registration Data

Subfield:	Electrical Engineering
Date first registered:	23 November 2023
Date this version registered:	23 November 2023
Anticipated review:	23 November 2028
Body responsible for review:	Namibia Training Authority