

Domain

POWER PLANT OPERATIONS

Title:

**Demonstrate knowledge of commissioning
power plant**

Level: 4

Credits: 4

Purpose

This unit standard is intended for those who demonstrate knowledge of commissioning power plant. People credited with this unit standard are able to demonstrate knowledge of commissioning power plant.

This unit standard is intended for those who work as power station operators.

Special Notes

1. Entry information:

Prerequisite

- *None*

2. This unit standard is to be delivered and assessed in the context of power station operation and should be assessed in conjunction with other relevant technical units selected from this domain.

3. To demonstrate competence, at a minimum, evidence is required of demonstrating knowledge of commissioning power plant.

4. Assessment evidence may be collected from a real workplace or a simulated workplace environment in which power plant operations are carried out.

5. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' and company guidelines, instructions, and reasonable flat rate time.

6. Glossary of terms:

- '*specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, workplace specific requirements, national and international standards and legislations
- '*ISO*' refers to International Organization for Standards
- '*SANS*' refers South African National Standards

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

- Labour Act No. 11 of 2007
- Petroleum Products and Energy Amendment Act No. 2 of 2005
- National Energy Fund Act of 2000
- Gas Act (Draft 2b)

- 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.
- ISO 14001 (Environmental Management Standard)
- Electricity Act No.4 of 2007
- SANS 10142-1 and SANS 10142-2 electrical wiring codes and all subsequent amendments to any of the above.

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 on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Demonstrate knowledge of commissioning power plant

Performance Criteria

- 2.1 Features for plant commissioning are explained.
- 2.2 Process of commission power plant is explained.
- 2.3 Plant documentation is checked and confirmed.
- 2.4 Plant tests and inspection records are verified according to workplace procedures.
- 2.5 Plant inspection is conducted according to workplace procedures.
- 2.6 Results of inspection are compared to the plant specifications and recommendations conducted according to workplace procedures.
- 2.7 Power plant commissioning process is concluded according to workplace procedures.

Registration Data

Subfield:	Electrical Engineering
Date first registered:	24 July 2014
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Anticipated review:	23 November 2028
Body responsible for review:	Namibia Training Authority