

Domain

ELECTRONICS

Title:

Inspect and Test Electronics Systems

Level: 4

Credits: 3

Purpose

This unit standard specifies the competencies required to inspect and test Electronic Systems. It includes planning for inspection, carrying out inspection and testing of the electronic systems. This unit standard is intended for those who work in electronics industry.

Special Notes

1. Entry information:

Prerequisite

- *Unit E01 - Apply health and safety rules and regulations in electronics workplace*
- *Unit E02 - Plan and organise work in electronic work environment*

2. To demonstrate competence, minimum evidence of ability to plan and carry out inspection and testing of the electronic systems (at least two electronic systems) is required.

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

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

5. Glossary of terms:

- '*specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, workplace specific requirements

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

- Labour Act, No. 11, 2007
 - Occupational Health and Safety Regulations No. 18, 1997
- 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 on www.nta.com.na

Elements and Performance Criteria

Element 1: Plan for inspection

Range

Electronics systems to be inspected include access control system, surveillance system, alarm system, telemetry system, computer system, monitoring and control systems.

Performance Criteria

- 1.1 Need for system inspection is identified.
- 1.2 Electronic systems' diagrams are read and interpreted in terms of the symbols, components and functionality.
- 1.3 Operator's manual is interpreted and inspection checklist is prepared.
- 1.4 Tools for inspection are identified and selected.
- 1.5 Inspection procedures are acquired from relevant regulatory body.

Element 2: Carry out inspection and testing of the electronic systems

Range

Electronics systems to be verified include access control system, surveillance system, alarm system, telemetry system, computer system, monitoring and control systems.

Performance Criteria

- 2.1 Personal protective equipment (PPE) is selected and used in accordance with statutory requirements. The consequences of not using personal protective equipment are explained in terms of personal risk and liability.
- 2.3 Electronic system is inspected and tested as per inspection procedures and checklist.
- 2.4 Test results/data are recorded and benchmarked with set standards.
- 2.5 Inspection results are documented, filed in accordance to company procedures and communicated to relevant personnel.

Registration Data

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