

Domain**ELECTRONICS****Title:****Maintain Electronics Systems****Level: 4****Credits: 8****Purpose**

This unit standard specifies the competencies required to maintain Electronic Systems. It includes planning for maintenance activities and performing maintenance activities. 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*
- *Unit E019 - Repair Electronic systems*

2. To demonstrate competence, minimum evidence of the ability to plan and perform maintenance activities for 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. Glossary of terms:

- 'Specifications' refers to any, or all of the following: manufacturers' specifications and recommendations, workplace specific requirements.
- 'Maintenance' refers to the process of preserving a condition or situation or the state of being preserved.

5. 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 amendment

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 maintenance activities

Range

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

Performance Criteria

- 1.1 Need for system maintenance is identified.
- 1.2 System location is identified.
- 1.3 System to be maintained is described
- 1.4 Maintenance manual is interpreted for safe removal and replacement of system components.
- 1.5 Maintenance checklist of actions required to achieve operational fitness in accordance with manufacturer's and/or regulatory requirements is developed.
- 1.6 Appropriate tools and equipment are prepared and obtained.
- 1.7 Maintenance schedule is developed based on maintenance manual.
- 1.8 Maintenance resources are identified and selected.
- 1.9 Maintenance budget is prepared in terms of materials and time required.
- 1.10 System maintenance plan is interpreted and communicated to the relevant personnel.

Element 2: Perform maintenance activities

Range

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

Performance Criteria

- 2.1 Maintenance resources are acquired based on maintenance plan.
- 2.2 Maintenance activities are carried out in accordance with manufacturer's instructions, specifications, company procedures and regulatory requirements.
- 2.3 Maintenance is completed within negotiated time frames.
- 2.4 Maintenance documentation is prepared, filed in accordance with company practice and communicated to the relevant personnel.

Registration Data

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

DRAFT