

Unit ID: 2215

Domain

**AUTOMOTIVE MECHATRONICS**

Title:

**Use and maintain diagnostic testing tools  
and equipment**

Level: 3

Credits: 6

### Purpose

This unit standard is intended for those who use and maintain diagnostic testing tools and equipment. People credited with this unit standard are able to describe diagnostic tools and equipment, use different diagnostic tools and equipment, and maintain different diagnostic tools and equipment.

This unit standard is intended for those who work in automotive mechatronics environment.

### Special Notes

1. Entry information

Prerequisite

- *none*

2. This unit standard is to be assessed in the context of industrial safety operations and should be assessed in conjunction with other relevant technical unit standards selected from this domain.

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

4. Glossary of terms:

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

5. Performance of all elements in this unit standard must comply with industry standards and workplace requirements.

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

- Labour Act No. 11 of 2007
- Regulations relating to the health and safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007
- ISO 14001 (Environmental Management Standard) 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](http://www.namqa.org) and the Namibia Training Authority on [www.nta.com.na](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Describe diagnostic tools and equipment**

#### **Performance Criteria**

- 1.1 Diagnostic tools and equipment are identified.
- 1.2 Operational characteristics of diagnostic tools are described.

### **Element 2: Use different diagnostic tools and equipment**

#### **Performance Criteria**

- 2.1 Diagnostic tool and equipment to be used are identified.
- 2.2 Processes and procedures of using each diagnostic tool and equipment is explained.
- 2.3 Coded errors are cleared according to manufacturers' procedures.

### **Element 3: Maintain different diagnostic tools and equipment**

#### **Performance Criteria**

- 3.1 Diagnostic tools and equipment are cleaned according to workplace procedures.
- 3.2 Faulty and worn components are identified and replaced according to manufacturers' procedures.
- 3.3 Loose connections and loose bolts and nuts are tightened according to manufacturers' procedures.

## **Registration Data**

<b>Subfield:</b>	Automotive Engineering
<b>Date first registered:</b>	22 April 2020
<b>Date this version registered:</b>	22 April 2020
<b>Anticipated review:</b>	2025
<b>Body responsible for review:</b>	Namibia Training Authority