

<b>Domain</b>	<b>PLANT HUSBANDRY</b>	<b>Unit ID: 1967</b>
<b>Title:</b>	<b>Develop a soil management plan</b>	
<b>Level: 4</b>		<b>Credits: 6</b>

### Purpose

This unit standard is intended for those who develop a soil management plan. People credited with this unit standard are able to demonstrate knowledge of soil characteristics; manage soil analyses; prepare a soil management plan.

This unit standard is intended for those who manage agricultural enterprises as well as people in other occupations that work in managerial positions in agricultural institutions.

### Special Notes

1. Entry information

Prerequisites:

- *Unit 1315 - Coordinate application of soil and crop fertility amendments and practices*

2. This unit standard is to be delivered and assessed in the context of agricultural operations and can be assessed in conjunction with other relevant technical unit standards.

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

4. Demonstration of competence, at a minimum, requires evidence in the demonstration of knowledge of soil characteristics, interpreting soil analysis report and preparing a soil management plan.

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

- Labour Act, No. 11, 2007
- Regulations relating to the Health and Safety of employees at work, 1997
- Namibia Agriculture Policy, 2015
- Fertilisers, farm feeds and agriculture and stock remedies Act, No. 46, 1998
- Biosafety Act, No. 7, 2006
- Water Resources Management Act, No. 24, 2004
- Environmental Management Act, No. 7, 2007
- Pollution Control and Waste Management Bill, 2003
- National Policy on Human and Wildlife Conflict Management, 2009
- Agronomic Industry Act, No. 20, 1992
- Environmental Management and Assessment Bill, 2004
- Desertification and Biodiversity Policy, 2005
- Climate Change Policy, 2011

- Standards Act, 2005, Standards Regulations: Standards Act, 2005 and relevant Namibian Standards as established

And all subsequent amendments to any of the above

- All current sets of *Good Agricultural Practices* to which Namibia subscribes and that regulate agricultural products entering a country to which Namibian producers may export.

### **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: Demonstrate knowledge of soil characteristics**

#### **Range**

**Impact** at a minimum includes interaction with plants, soil, and ecosystem/ (fauna and micro-organisms)

#### **Performance Criteria**

- 1.1 The principles of soil formation are explained.
- 1.2 The principles of classification of soil types are explained.
- 1.3 The principles of chemical characteristics of soils are explained.
- 1.4 The principles of biological characteristics of soils are explained.
- 1.5 The principles of physical characteristics of soils are explained.
- 1.6 The principles of impact of soil amendments is explained.

### **Element 2: Manage soil analyses**

#### **Range**

**Soil fertility and conditioning amendments and practices** may include, but are not limited to, chemical fertilizers (compound, simple, liquid and soluble), organic fertilizers, as foliar spray, fertigation, basal application, spot or line application or top dressing.

#### **Performance Criteria**

- 2.1 Test interpretation guides and reports on soil analyses are explained.

- 2.2 Recommendations for soil amendments based on soil sampling results are explained.

### **Element 3: Prepare a soil management plan**

#### **Performance Criteria**

- 3.1 Develop fertiliser recommendations.
- 3.2 Identify best nutrient management practices.
- 3.3 Prepare a soil and water management plan for a farm.
- 3.4 Soil fertility and condition are managed according to recommendations and soil management objectives.
- 3.5 Soil performance is monitored.

#### **Registration Data**

<b>Subfield:</b>	Agronomy and Horticulture
<b>Date first registered:</b>	29 November 2018
<b>Date this version registered:</b>	29 November 2018
<b>Anticipated review:</b>	2023
<b>Body responsible for review:</b>	Namibia Training Authority