

Domain	ROAD CONSTRUCTION AND MAINTENANCE - CORE	Unit ID: 714
Title:	Demonstrate fundamental knowledge of soils used in road construction and maintenance operations	
Level: 2		Credits: 5

Purpose

This unit standard is intended for those who work in road construction and maintenance operations. People holding credit for this unit standard are able to: Identify different soil types and demonstrate knowledge of the relation between compaction of soils and moisture content.

Special Notes

1. Entry information:

Prerequisite
 - None.
2. Assessment evidence may be collected from a real workplace or a simulated real workplace or an appropriate simulated realistic environment in which grader operations are carried out.
3. Soils include but are not limited to cohesive and non-cohesive soils including clay, silt, sand and gravel. Excludes materials used for surfacing such as chips, crusher dust and concrete stone.

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. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority website www.nta.com.na.

Elements and Performance Criteria

Element 1: Identify different soil types.

Performance Criteria

- 1.1 Soil types are identified in terms of their cohesive and non-cohesive features.
- 1.2 General availability of soil types in Namibia is described.
- 1.3 Machinery suitable for cutting, hauling, dumping, spreading and compacting of cohesive and non-cohesive soils are identified.

Element 2: Demonstrate knowledge of the relation between compaction of soils and moisture content.

Performance Criteria

- 2.1 Means of compaction of different soils are described in terms of machinery or tools used and actions performed.
- 2.2 The impact of moisture content on the compaction of soils is described.

Registration Data

Subfield:	Road Construction and Maintenance
Date first registered:	12 November 2009
Date this version registered:	12 November 2009
Anticipated review:	2013
Body responsible for review:	Namibia Training Authority