

	Unit ID: 1044
Domain	ROAD CONSTRUCTION AND MAINTENANCE – CORE
Title:	Read and interpret working drawings and specifications as part of 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: demonstrate knowledge of lines and symbols; drawings and sketching methods; and read and interpret working drawings and specifications.

Special Notes

1. Entry information:
 - Prerequisite
 - Unit 712 - *Comply with health, safety and environmental rules and regulations in road construction and maintenance work operations*
2. Assessment evidence may be collected from a real workplace, a simulated workplace or an appropriately simulated environment in which road construction and maintenance operations are carried out.
3. For the purpose of this unit standard, *working drawings* include freehand and/or drawn illustrations. They are reasonably simple and straightforward in terms of how information is being presented visually and are intended to be readily read and interpreted by persons working in road construction and maintenance activities at this NQF Level.
4. Safe working practices include but are not limited to day-to-day observation of safety policies and procedures, and compliance with emergency procedures.
5. Performance of all elements in this unit standard must comply with all relevant legal and workplace requirements, contractual agreement and/or manufacturers' specifications.
6. Regulations and legislation relevant to this unit standard include but are not limited to the following:
 - Labour Act, No. 11 of 2007
 - Occupational Health and Safety Regulations No. 18, 1997
 - Road Traffic and Transport Regulations No. 52, 1999 and Government Notice No 53 Road Traffic and Transport Regulations
 - Road Ordinance 1972 and other relevant legislations 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. 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: Demonstrate knowledge of lines and symbols, drawings and sketching methods

Range

Lines include outlines, dimension lines, hidden detail, centre back, and reference lines.

Symbols refer to basic symbols used on working drawings including freehand and/or drawn illustrations, identifying sections, elevations and details.

Drawing and sketching methods include one-point perspective, two-point perspective, isometric, oblique, third angle orthographic projection.

Performance Criteria

- 1.1 Lines used on construction drawings are identified and their purpose described.
- 1.2 Symbols used on construction drawings are identified and their purpose described.
- 1.3 Drawings and sketching methods are identified and described in terms of their practical application.

Element 2: Read and interpret working drawings and specifications

Range

Working drawings and specifications may include but are not limited to elevations, sections, and large-scale details.

Performance Criteria

- 2.1 Working drawings and specifications are identified and described in terms of their types and uses.
- 2.2 Abbreviations and symbols are identified and interpreted in terms of their use on specifications and working drawings.
- 2.3 Any preliminary work is identified from specifications and working drawings.
- 2.4 Quality and types of materials required for the work being illustrated are determined from working drawings and specifications.

Registration Data

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