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 road construction and maintenance plants, equipment, and activities; describe quality assurance of road construction and maintenance activities; and describe effects of adverse weather on road construction environment and activities.

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. Basic road construction and maintenance works refer to plants, equipment and activities.

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 road construction and maintenance plants, equipment, and activities**

**Range**

Road construction and maintenance activities refer to processes that may include but are not limited to demolition, site clearing, earthworks, site preparation, excavation, foundations, erection and construction of structures, services, pavements and surfacing, road marking, and erection of signs (To provide competence, at a minimum, any three (3) activities and their planning process need to be described).

Plant may include but are not limited to dozer, excavator, backhoe, wheeled loader, grader and self-propelled roller.

Equipment may include but are not limited to lifting gear and attachments, scaffolding wheelbarrows, ladders, safety barricade, compressed power tools, electric power tools, leads, safety equipment, and adjustable props.

**Performance Criteria**

1.1 Road construction and maintenance activities and their planning processes are described.

1.2 Sequences for road construction and maintenance activities are described.

1.3 The potential uses of road construction and maintenance plant are identified.

1.4 The potential uses of road construction and maintenance equipment are identified.

**Element 2: Describe quality assurance of road construction and maintenance activities**

**Performance Criteria**

2.1 Supplying a product or service to meet specified requirements in terms of quality assurance, timing, and level of service, is described.

2.2 The impact of individual performance on own and company’s professional reputation is explained.

2.3 Procedures for detecting and reporting defects in plant, materials and tasks are defined.
Element 3: Describe effects of adverse weather on road construction and maintenance environment and activities

Performance Criteria

3.1 The effect of adverse weather on construction and maintenance materials is described.

3.2 The effect of adverse weather on the work area including road surfaces is described.

3.3 The effect of wind, dust and heat on machine operation is described.

Registration Data

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