

	Unit ID: 713
Domain	ROAD CONSTRUCTION AND MAINTENANCE - CORE
Unit Title:	Apply productivity principles in routine 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: Plan and prepare for work, measure, calculate and compile production activity records and implement productivity improvement measures.

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 or a simulated real workplace in which grader operations are carried out.
3. Productivity principles include but are not limited to productivity targets, production outputs, production rates and productivity cycle.
4. Safe working practices are to include 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 workplace requirements, contractual agreements and/or manufacturers' specifications.
6. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 11 of 2007 as amended
 - Occupational Health and Safety Regulations No. 18, 1997
 - Road Traffic and Transport Regulations No. 52, 1999 and Government Notice No. 53 on Road Traffic and Transport Regulations.
 - Road Ordinance 1972 and other relevant legislations.

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: Plan and prepare for work.

Range

Planning and preparation may include but is not limited to workplace inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained and applied to the allocated task.
- 1.2 Safety requirements are obtained from the site safety plan and workplace policies and procedures and applied to the allotted task.
- 1.3 Signage requirements are identified and obtained from the project traffic management plan and implemented.
- 1.4 Plant, tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for usability and any faults rectified or reported prior to commencement.
- 1.5 Environmental protection requirements are identified from the project environmental management plan and applied to the allocated task.
- 1.6 Workplace inspection identifies hazards.
- 1.7 Daily individual, team and plant equipment production target outputs and allowable costs are obtained and confirmed as being understood.

Element 2: Measure, calculate and compile production activity records.

Performance Criteria

- 2.1 Daily actual productions are measured and compared to planned production target.
- 2.2 Daily actual cost are calculated and compared to the allowable cost.
- 2.3 Production activity records are compiled according to workplace requirements.
- 2.4 Significant variances are reported in accordance with documented instruction and workplace procedures.

Element 3: Implement productivity improvement measures.

Performance Criteria

- 3.1 Information from production activity report is used for productivity improvement decisions in consultation with line supervisor.
- 3.2 Productivity improvement measures are established, implemented and monitored in conjunction with line supervisors.

Registration Data

Subfield:	Road Construction and Maintenance
Date first registered:	12 November 2009
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Anticipated review:	2013
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