

	Unit ID: 721
Domain	ROAD CONSTRUCTION AND MAINTENANCE - KERBLAYING
Unit Title:	Repair pre-cast concrete kerbs and channels on a road works construction site
Level: 2	Credits: 5

Purpose

This unit standard is intended for those who work in road construction and maintenance performing kerblaying operations. People holding credit for this unit standard are able to: Plan and prepare for work, identify damaged areas and repair requirements, repair damaged areas and clean up work area.

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 kerblaying operations are carried out.
3. Safe working practices are to include day to day observation of safety policies and procedures and compliance with emergency procedures.
4. Repairs are conducted on new projects and existing roads and during traffic conditions and non-traffic conditions.
5. Tools to include shovels, rakes, trowels, forming tools, sting lines and levels, concrete mixers, barrows, form machine.
6. Material to include but not limited to cement, sand, stones, water, epoxy and other required chemical.
7. Performance of all elements in this unit standard must comply with all relevant workplace requirements contractual agreement and manufacturers' specifications.
8. 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.

Performance Criteria

- 1.1 Work instructions, 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, workplace policies and procedures and applied to the task.
- 1.3 Signage requirements are identified from the project traffic management plan, uplifted and implemented.
- 1.4 Plant, tools, materials and equipment selected to carry out tasks are consistent with the requirements of the job, checked for usability and any faults rectified and reported prior to commencement.
- 1.5 Environmental protection requirements are identified from the project environmental management plan, confirmed and applied to the task.
- 1.6 Work area is checked for hazards. All hazards are identified and corrective action is taken in line with workplace housekeeping procedures including eliminating and reporting.

Element 2: Identify damaged areas and repair requirements.

Range:

Damage areas may include minor cracks and broken edges.
Repair requirements may include crack sealing, filling and patching.

Performance Criteria

- 2.1 Damaged areas are identified.
- 2.2 Repair requirements are assessed as being repairable or require replacement.
- 2.3 Repairs requiring replacement are notified in accordance with workplace procedures.

Element 3: Repair damaged areas.

Performance Criteria

- 3.1 Loose material is removed and damaged area is cleaned.
- 3.2 Formwork is set up around the damaged area as required by the repair.
- 3.3 Concrete or approved chemical material is prepared according to mix design and manufacture's specification.
- 3.4 Concrete is placed and finished to specifications, matching shapes of kerb or gutter in place.
- 3.5 The area is cleared, backfilled and finished to specifications.

Element 4: Clean up work area.

Performance Criteria

- 4.1 Work area is cleared and materials disposed of or recycled in accordance with project environment management plan.
- 4.2 Plant, tools and equipments are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.
- 4.3 Unused materials are safely stored, stacked for future use and recorded in accordance with workplace procedures.
- 4.4 Work related records are completed in accordance with workplace requirements.

Registration Data

Subfield:	Road Construction and Maintenance
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Body responsible for review:	Namibia Training Authority