

	<b>Unit ID: 1013</b>
<b>Domain</b>	<b>ROAD CONSTRUCTION AND MAINTENANCE – BITUMEN ROAD MAINTENANCE</b>
<b>Title:</b>	<b>Repair bituminous road edges</b>
<b>Level: 2</b>	<b>Credits: 8</b>

### 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; prepare the work area; carry out bitumen road edge repair; complete work related documents; 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. Quality in this unit standard means adherence to contract requirements and work instructions.
3. Expected worksite production target are to be met.
4. 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.
5. Safe working practices include but are not limited to day-to-day observation of safety policies and procedures, and compliance with emergency procedures.
6. Performance of all elements in this unit standard must comply with all relevant legal and workplace requirements, contractual agreement and/or manufacturers' specifications.
7. 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](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Plan and prepare for work**

#### **Performance Criteria**

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, explained, clarified and applied to the allocated task.
- 1.2 Safety requirements, including personal protective clothing and equipment are obtained from the site safety plan, workplace policies and procedures, and applied to the allocated task.
- 1.3 Traffic control requirements are obtained and implemented according to workplace requirements.
- 1.4 Tools and equipment selected to carry out tasks are checked for consistency with the requirements of the job, their usability and any faults rectified or reported prior to commencement of work.
- 1.5 Environmental protection requirements are identified from the project environmental management plan and applied to the allocated task.

### **Element 2: Prepare the work area**

#### **Performance Criteria**

- 2.1 Potential hazards are correctly identified.
- 2.2 Safety measures with regard to identified hazards are implemented.
- 2.3 Traffic controls and signage are put in place.
- 1.4 Resources are applied to the allocated task.

### **Element 3: Carry out bitumen road edge repair**

#### **Performance Criteria**

- 3.1 The affected area is demarcated and edge support prepared as required, according to workplace requirements.
- 3.2 The pavement layers are prepared, shaped and, if required, compacted according to workplace specifications.
- 3.3 Joints between existing surface and repair are cut, lean and bonded according to workplace specifications.

- 3.4 Edging of repaired area maintains alignment with the existing road edges
- 3.5 Edge support is reinstated as required and compacted according to workplace requirements.

**Element 4: Complete work related documents**

**Performance Criteria**

- 4.1 Work related documents are completed in accordance with contract and workplace requirements.
- 4.2 Maintenance and service related documents are completed in accordance with manufacturer and workplace requirements.
- 4.3 Documents related to accidents or other incidents are completed in accordance with workplace requirements.

**Element 5: Clean up work area**

**Performance Criteria**

- 5.1 Work area is cleared and materials disposed of or recycled in accordance with project environment management plan.
- 5.2 Traffic control measures and signage are removed in the correct sequence.
- 5.3 Tools and equipments are cleaned, checked, maintained, serviced and stored in accordance with manufacturers' recommendations and standard work practices.
- 5.4 Unused materials are safely stored and stacked for future use.

**Registration Data**

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