

	<b>Unit ID: 818</b>
<b>Domain</b>	<b>ROAD CONSTRUCTION AND MAINTENANCE – BITUMEN ROAD MAINTENANCE</b>
<b>Title:</b>	<b>Control vegetation by use of herbicides within the road reserve</b>
<b>Level: 2</b>	<b>Credits: 4</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; inspect area to be treated with herbicide and identify obstructions and/or hazards; obtain and store material; carry out the work in a cost effective and safe manner; complete work related documents; and clean up after work.

### 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 workplace instructions.
3. This unit standard could be assessed at the same time as unit standard Unit 811 - *Control vegetation within the road reserve.*
4. Expected worksite production target are to be met.
5. 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.
6. Safe working practices include but are not limited to day-to-day observation of safety policies and procedures and compliance with workplace procedures.
7. Performance of all elements in this unit standard must comply with all relevant legal and workplace requirements, contractual agreement and/or manufacturers' specifications.
8. Regulations and legislation relevant to this unit standard include but are not limited to 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 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 Plant, tools, fuel, lubricants, equipment, attachments and accessories 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: Inspect area to be treated with herbicide and identify obstructions and/or hazards**

#### **Performance Criteria**

- 2.1 Hazards and/or obstructions, waterways and desired vegetation are identified.
- 2.2 Hazards and/or obstructions are removed.
- 2.3 Consequences of non-compliance with herbicide manufacturers' specifications are explained.

### **Element 3: Obtain and store materials**

#### **Performance Criteria**

- 3.1 Material quantities are calculated.

- 3.2 Materials are obtained in terms of organisational policies and procedures.
- 3.3 Materials are transported and stored in a safe and cost effective manner.

#### **Element 4: Carry out the work in a cost effective and safe manner**

##### **Performance Criteria**

- 4.1 Programme of work is obtained and confirmed in line with workplace procedures.
- 4.2 Personal protective equipment is fitted and worn in accordance with instructions and specifications.
- 4.3 The herbicide is prepared according to the contract and/or manufacturers' specifications.
- 4.4 Contamination of waterways is avoided.
- 4.5 Vegetation not to be controlled is avoided.
- 4.6 Quality control of work is carried out to ensure work complies with project and herbicide manufacturers' specifications.
- 4.7 Productivity control is carried out to ensure compliance to targets.
- 4.8 Quality and/or product variations are rectified according to workplace procedures.
- 4.9 Material usage is accurately recorded.

#### **Element 5: Complete work related documents**

##### **Performance Criteria**

- 5.1 Work related documents are completed in accordance with contract and workplace requirements.
- 5.2 Maintenance and service related documents are completed in accordance with manufacturer and workplace requirements.
- 5.3 Documents related to accidents or other incidents are completed in accordance with workplace requirements.

#### **Element 6: Clean up after work**

##### **Performance Criteria**

- 6.1 Adjacent area is cleared and materials disposed of or recycled in accordance with project environment management plan.
- 6.1 Tools and equipments are cleaned, checked, maintained, serviced and stored in accordance with manufacturers' recommendations and standard work practices.

6.2 Unused materials are safely stored and stacked for future use.

### **Registration Data**

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