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**SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED UNIT STANDARD:**

Operate waste disposal facilities

SAQA US ID	UNIT STANDARD TITLE			
119557	Operate waste disposal facilities			
ORIGINATOR		ORIGINATING PROVIDER		
SGB Environmental Sc/Mgt & Waste Mgt				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 10 - Physical, Mathematical, Computer and Life Sciences			Environmental Sciences	
ABET BAND	UNIT STANDARD TYPE	OLD NQF LEVEL	NEW NQF LEVEL	CREDITS
Undefined	Regular	Level 2	NQF Level 02	6
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2009-05-05	2012-05-05	SAQA 0160/05
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2013-05-05		2016-05-05		

In all of the tables in this document, both the old and the new NQF Levels are shown. In the text (purpose statements, qualification rules, etc), any reference to NQF Levels are to the old levels unless specifically stated otherwise.

This unit standard does not replace any other unit standard and is not replaced by any other unit standard.

PURPOSE OF THE UNIT STANDARD

In order for me to perform effectively in the field of environmental science, environmental management and waste management, I will be able to:

- Dispose of waste safely, responsibly and in compliance with legislation
- Control incoming waste and movement of vehicles at a waste disposal site
- Complete relevant documentation.

I will also know and understand:

- Principles and concepts related to waste management and their application in practice
- Methods of waste disposal

I can be assessed against this unit standard in the context of any waste disposal activity.

The skill, the knowledge and the values reflected in this unit standard form part of the exit level outcomes required for the National Certificate in Environmental Practice NQF Level 2.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that the learner is competent in Communication and Mathematical Literacy Skills at NQF Level 1.

UNIT STANDARD RANGE

The scope and level of this unit standard is indicated by range statements related to the Specific Outcomes.

This unit standard is appropriate for learners who specialise in the field of waste management.

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Apply the appropriate disposal method for each category of waste.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The correct actions are taken for each category of waste.

ASSESSMENT CRITERION 2

Work is carried out safely and with due care for self, fellow workers, equipment, materials and the environment.

ASSESSMENT CRITERION RANGE

Safely: correct techniques and procedures are used to dispose of waste; safe working practices are applied, appropriate protective clothing and equipment is used.

ASSESSMENT CRITERION 3

Waste disposal and related statutory responsibilities are explained appropriately.

ASSESSMENT CRITERION 4

Environmentally damaging practices are recognised and reported timeously and accurately.

ASSESSMENT CRITERION 5

Incidents and problems related to waste disposal are discussed and explained properly.

ASSESSMENT CRITERION RANGE

Incidents and problems: includes impact of hazardous waste on the environment.

SPECIFIC OUTCOME 2

Control and direct movement of vehicles on the waste disposal site.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Vehicle movements are carried out efficiently and safely.

ASSESSMENT CRITERION RANGE

Directions are clear and unambiguous; vehicle suitability for operating conditions is checked and if not, appropriate action is taken; no delays or incidents occur as a result of my lack of foresight.

ASSESSMENT CRITERION 2

Operations are carried out efficiently, safely and to quality standards.

ASSESSMENT CRITERION RANGE

Operations include loading, unloading.
Safely: all safe work practices are adhered to.

ASSESSMENT CRITERION 3

Incidents and problems are reported timeously and appropriate action is taken.

ASSESSMENT CRITERION RANGE

Incidents and problems include non-compliance with legislation and site or equipment requirements; vehicular or equipment problems; inappropriate waste; hazardous conditions.

SPECIFIC OUTCOME 3

Control access and monitor the flow of incoming materials to a waste facility.

OUTCOME RANGE

Materials also include fuel, consumable, etc.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Vehicles and personnel are guided to enter and leave the site in accordance with organisational procedures.

ASSESSMENT CRITERION 2

Non-compliant waste is recognised and appropriate action is taken.

ASSESSMENT CRITERION 3

Security of the facility, equipment and resources is maintained properly.

SPECIFIC OUTCOME 4

Recognise and report threats or damage to health, safety or the environment.

OUTCOME RANGE

This outcome includes an awareness of appropriate preventive, corrective or remedial actions.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Potential or actual dangers to health, safety and the environment which can arise during waste disposal processes are identified and reported accurately and appropriately.

ASSESSMENT CRITERION 2

Questions about measures which can be taken to prevent, correct or remedy threats or damage to health, safety or the environment are responded to appropriately.

SPECIFIC OUTCOME 5

Compile records related to waste disposal.

OUTCOME RANGE

Incident reports, operational records, maintaining confidentiality of organisational and client information.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Records are completed accurately, up to date and processed correctly.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

To obtain credits I must be assessed. The assessment will be based on evidence that I produce. My assessment will be governed by the policies and guidelines of a relevant Education and Training Quality Assurance body (ETQA), which has jurisdiction over this field of learning. The policies and procedures of the relevant ETQA will also determine:

- How my assessment is moderated
- How I can appeal against the outcome of the assessment

Any institution or company which offers learning that will enable me to achieve the purpose of this unit standard must be accredited as a provider through the relevant ETQA.

My assessment against this standard should meet all the requirements of established principles. It should include practical assessment activities, which are appropriate to the contents of this unit standard. These activities should include an appropriate combination of self and peer assessment, practical and oral assessments, observations, etc.

I can be assessed in the language of my choice although if I have to report incidents or conditions to someone else, I will be assessed on my ability to report in the language commonly used in my working environment.

I will be assessed on all the Specific Outcomes, Critical Cross-Field Outcomes and Essential Embedded Knowledge. The Specific Outcomes must be assessed in their own right, through oral and practical evidence. My assessment will not only be based on observation but also on other evidence which I compile into a portfolio of evidence. I cannot be assessed only through a written or oral test.

The Specific Outcomes and essential knowledge will be assessed in relation to each other. If I am able to explain the items which fall under the heading of Essential Embedded Knowledge, but am unable to perform the Specific

Outcomes, then I cannot be assessed as 'competent'. Similarly, if I am able to perform tasks described under the Specific Outcomes, but cannot explain or justify them in terms of the fundamental concepts, principles and practice relevant to the level of the unit standard that underpins my skill, then I cannot be assessed as 'competent'.

I will also be assessed on my ability to apply the principles and techniques related to the Critical Cross-Field Outcomes, not only in terms of what I can demonstrate, but also in terms of what I know and can discuss.

My assessment for this unit standard can be done in conjunction with the assessment of other unit standards related to a qualification, and even in conjunction with my assessment for the qualification as a whole.

UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

Names & functions of:

- Types of waste
- Disposal methods
- Terminology related to the waste stream

Purpose of:

- Vehicle, load, equipment and site requirements
- Personal protective equipment
- Reports
- Site operational requirements
- Security requirements

Attributes, descriptions, characteristics & properties:

- Characteristics of disposal facility, vehicles, loads, equipment, site
- Personal protective clothing and equipment
- Hand signals for directing vehicle movements
- Reports
- Effective communication

Processes and events:

- Directing vehicle movements
- Communicating with drivers and personnel
- Positioning vehicles, loading and unloading
- Reporting incidents
- Taking appropriate action to prevent or minimise threat or damage to health and the environment
- Taking appropriate action to prevent damage to infrastructure, vehicles and equipment
- Selecting and wearing appropriate personal protective equipment
- Conducting security checks

Causes and effects, implications of:

- Implications of the various methods of disposal
- Implications of not disposing of hazardous or medical waste correctly
- Benefits and disadvantages of each disposal method
- Implications of not complying with vehicle, load, equipment and site requirements
- Security breaches

Procedures and techniques:

- Disposing of waste
- Directing and positioning vehicles
- Loading and offloading
- Correctly using PPE
- Recognising and responding to incidents and problems (eg adverse weather conditions, accidents, mechanical failure, non-compliant waste, unsuitable vehicles, congestion, etc)
- Recognising and preventing potential damage or injury
- Maintaining security
- Controlling access

Sensory cues:

- Recognise potential and actual threats or damage to the environment
- Anticipate and responding to conditions that could interfere with safe and efficient movements or operations
- Maintain security

Regulations, legislation, agreements, policies, standards:

- Related to the various methods of disposal
- Related to vehicle movement and equipment operation
- Control access to the site
- Related to health and safety

Theory: rules, principles, laws:

- Science and technology related to the various methods of disposal
- Relevant principles of waste management

Categories:

- Types of waste

Relationships, systems:

- Relationship between the characteristics of the waste, the methods of disposal, and human and environmental health and well-being

UNIT STANDARD DEVELOPMENTAL OUTCOME

N/A

UNIT STANDARD LINKAGES

N/A

Critical Cross-field Outcomes (CCFO):

UNIT STANDARD CCFO IDENTIFYING

Identify and solve problems:

- Related to types of waste and methods of disposal.

UNIT STANDARD CCFO WORKING

Work effectively with others:

- Work with due care for the health and safety of others.

UNIT STANDARD CCFO ORGANISING

Organise and manage myself and my activities:

- Carry out activities in accordance with procedures for disposing of waste.

UNIT STANDARD CCFO COLLECTING

Collect, analyse, organise and critically evaluate information:

- Use sensory information to monitor the disposal of waste.
- Record information related to waste disposal.

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively:

- Use gestures to direct vehicle movements efficiently and safely.
- Report information related to disposal of waste.

UNIT STANDARD CCFO SCIENCE

Use science and technology effectively and critically:

- Apply knowledge of waste properties and disposal methods to carry out operations effectively and safely.

UNIT STANDARD CCFO DEMONSTRATING

Demonstrate an understanding of the world as a set of related systems:

- Recognise the interrelationship between the properties of the waste, the characteristics of the disposal method and the impact on the environment.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	OLD LEVEL	NEW LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Elective	49605	National Certificate: Environmental Practice	Level 2	NQF Level 02	Reregistered	2012- 06-30	LG SETA

PROVIDERS CURRENTLY ACCREDITED TO OFFER THIS UNIT STANDARD:

This information shows the current accreditations (i.e. those not past their accreditation end dates), and is the most complete record available to SAQA as of today. Some Quality Assuring Bodies have a lag in their recording systems for provider accreditation, in turn leading to a lag in notifying SAQA of all the providers that they have accredited to offer qualifications and unit standards, as well as any extensions to accreditation end dates. The relevant Quality Assuring Body should be notified if a record appears to be missing from here.

1. African Divas
2. ICANDO

3. Integrated Waste and Recycling Services

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