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

Handle and dispose of waste

SAQA US ID	UNIT STANDARD TITLE			
119303	Handle and dispose of waste			
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 1	NQF Level 01	12
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2009-07-01	2012-06-30	SAQA 0480/09
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2013-06-30		2016-06-30		

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:

- Identify, categorise, collect, handle and dispose of different types of waste
- Use appropriate terminology to describe waste related issues

I will also know and understand:

- How waste interrelates with the environment
- The importance of working safely with due care for the environment and the health and well-being of myself and others.

I can be assessed against this unit standard in the context of any activity which is related to managing environmental issues, such as:

- Clearing invasive species and water courses
- Land development projects
- Collecting and processing waste
- Local government litter picker
- Working in community initiatives with an environmental focus
- Preventing and responding to pollution
- Inspecting facilities to prevent pollution or adverse environmental impacts
- Etc

The skill, the knowledge and the values reflected in this unit standard form part of the exit level outcomes required for the General Education and Training Certificate in Environmental Practice (NQF Level 1).

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner studying towards this qualification has attained ABET level 3 Mathematics and Communication.

UNIT STANDARD RANGE

- The scope and level of this unit standard is indicated by range statements related to the specific outcomes.
- The amount of detail and degree of complexity provided in explanations and descriptions should be appropriate to NQF Level 1. The purpose is to alert the learner to waste management principles and concepts as they relate to the learner's context, and does not imply knowledge and understanding of the full range of concepts
- All terminology and definitions related to waste (including categories) should be in line with Government policies, laws and guidelines.
- Disposal of waste refers to the primary disposal (on-site storage). Specialist waste management workers would obtain the greater depth and range of knowledge they require from learning associated with the related unit standards on materials and tools/equipment.

Specific Outcomes and Assessment Criteria:**SPECIFIC OUTCOME 1**

Demonstrate an understanding of what waste is and how it interrelates with the environment.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The different categories of waste are named and briefly described.

ASSESSMENT CRITERION RANGE

Different categories: general, hazardous, biodegradable, recoverable, etc.

ASSESSMENT CRITERION 2

Adverse as well as potentially beneficial effects of waste on the environment are described.

SPECIFIC OUTCOME 2

Identify and describe the concepts and principles of waste management.

OUTCOME RANGE

- Concepts and principles cover the waste management hierarchy: avoid, minimise, separate, re-use/repair, recycle, treat, process, dispose.
- Describe: respond to questions to show that I have a basic understanding of the concepts and principles and can explain and describe them in elementary terms.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The waste hierarchy is described and explained.

ASSESSMENT CRITERION 2

Questions about the application of the waste hierarchy are responded to appropriately.

SPECIFIC OUTCOME 3

Identify and describe the sequence of steps required in the waste management process.

OUTCOME RANGE

- Sequence of steps: the waste management process, ie generation, storage, collection, transport, processing/treatment (recycling, composting, incineration), disposal.
- Management includes waste tracking documentation.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The points at which waste is commonly generated are identified.

ASSESSMENT CRITERION 2

The ways in which waste is stored, collected and transported are described.

ASSESSMENT CRITERION 3

The ways in which waste can be treated and disposed of are listed and described.

ASSESSMENT CRITERION 4

Questions about the purpose of waste tracking documentation are responded to appropriately.

ASSESSMENT CRITERION 5

Work is carried out safely with due care for the environment and the health and well-being of myself and others.

SPECIFIC OUTCOME 4

Recognise and respond appropriately to special waste.

OUTCOME RANGE

- Special waste includes hazardous waste, electronic waste, health care generic waste, health care risk waste and radioactive waste.
- Respond appropriately includes applying special methods of storing waste prior to collection, isolating waste, reporting, following emergency procedures, etc.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Examples of special classes of waste are identified.

ASSESSMENT CRITERION 2

Questions about recognising and identifying special classes of waste are responded to appropriately.

ASSESSMENT CRITERION 3

The correct action is taken in response to each class of special waste.

SPECIFIC OUTCOME 5

Apply waste management principles and procedures in own context.

OUTCOME NOTES

This outcome should be demonstrated practically: a waste stream familiar to the learner should be investigated, and practical ways of waste management be demonstrated.

OUTCOME RANGE

Waste management principles and procedures: minimising, reusing, recycling, handling, disposal

Own context: work, community or domestic.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

A variety of environmentally sensitive materials are collected and disposed of according to type.

ASSESSMENT CRITERION 2

Ways of reducing the amount of waste generated are listed and described in elementary terms.

ASSESSMENT CRITERION 3

Waste that can be reused is identified and separated and ways of re-using this waste in my context are described.

ASSESSMENT CRITERION 4

'What' and 'why' questions about waste management choices are responded to appropriately.

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

The following items reflect the type of knowledge that the assessor will evaluate

Names and functions of:

- Kinds of waste
- Terminology related to the waste stream
- Types of hazardous waste
- Special classes of waste

Purpose of:

- Minimising waste
- Sorting
- Recycling
- Compacting
- Composting
- Incinerating
- Personal protective clothing and equipment
- Securing waste containers

Attributes, descriptions, characteristics and properties:

- Of different kinds of waste
- Of dangers associated with hazardous waste
- Of hazardous waste

Processes and events:

- Minimising waste
- Reusing
- Sorting, separating
- Isolating
- Recycling
- Compacting
- Composting
- Incinerating

Causes and effects, implications of:

- Poorly managed waste
- Pollution
- Using non-renewable resources
- Failure to work safely

Procedures and techniques:

- For handling and disposing of waste
- For avoiding contamination
- Methods of disposal
- Emergency procedures

Sensory cues:

- Smells and visual cues related to identifying types of waste

Regulations, legislation, agreements, policies, standards:

- Related to waste management and the environment

Theory: rules, principles, laws:

- Elementary science related to handling and disposing of waste

Categories:

- Kinds of waste

Relationships, systems:

- The inter-relationship of waste and the environment
- The waste management system

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 the safe handling and disposal of waste.
- Identify and demonstrate practical ways of reducing the amount of waste generated.

UNIT STANDARD CCFO WORKING

Work effectively with others

- Work safely with due care for the health and well-being of others.

UNIT STANDARD CCFO ORGANISING

Organise and manage myself and my activities

- Carry out my activities in accordance with the principles of waste management.

UNIT STANDARD CCFO COLLECTING

Collect, analyse, organise and critically evaluate information

- Use sensory information to identify special classes of waste.

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively

- Report special classes of waste.
- Use the correct terminology to describe waste management principles.

UNIT STANDARD CCFO SCIENCE

Use science and technology effectively and critically

- Show responsibility towards the environment and the health of self and others.

UNIT STANDARD CCFO DEMONSTRATING

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

- Understand the interrelationship between waste and the environment.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	OLD LEVEL	NEW LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Core	49552	General Education and Training Certificate: Environmental Practice	Level 1	NQF Level 01	Reregistered	2012-06-30	LG SETA
Elective	58493	General Education and Training Certificate: Equine and Equestrian Practices	Level 1	NQF Level 01	Reregistered	2012-06-30	AgriSETA

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. ICANDO
2. Interwaste (Pty)Ltd

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