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

Operate a backhoe/loader

SAQA US ID	UNIT STANDARD TITLE			
262727	Operate a backhoe/loader			
ORIGINATOR				
SGB Civil Engineering Construction				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 12 - Physical Planning and Construction			Physical Planning, Design and Management	
ABET BAND	UNIT STANDARD TYPE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	NQF Level 02	15
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2015-07-01	2018-06-30	SAQA 10105/14
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2019-06-30		2022-06-30		

In all of the tables in this document, both the pre-2009 NQF Level and the NQF Level is shown. In the text (purpose statements, qualification rules, etc), any references to NQF Levels are to the pre-2009 levels unless specifically stated otherwise.

This unit standard replaces:

US ID	Unit Standard Title	Pre-2009 NQF Level	NQF Level	Credits	Replacement Status
116333	Operate backhoe/loader	Level 2	NQF Level 02	20	Complete

PURPOSE OF THE UNIT STANDARD

The qualifying learner will be able to operate a backhoe/loader by understanding the functions of starting, shutting down and operating procedures for the machine. Learners who master the applied competence described in this unit standard will contribute to the development of a professional community of Construction Plant operators.

The qualifying learner will be capable of:

- Demonstrating knowledge of the functions of a backhoe/loader.
- Planning for work activities and prepare work area.
- Starting and shutting down backhoe/loader.
- Operating backhoe/loader.
- Transporting backhoe/loader to and from site.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is recommended that learners entering into a study of this unit standard will prove competence in the following to enable the achievement of this unit standard:

- Communication at NQF Level 1.

UNIT STANDARD RANGE

N/A

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Demonstrate knowledge of the functions of a backhoe/loader.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The main functions of a backhoe/loader are explained in terms of manufacturer's specifications.

ASSESSMENT CRITERION 2

The operation of all major components is explained in terms of their functions.

ASSESSMENT CRITERION 3

The applications of a backhoe/loader are described in terms of earthmoving activities.

ASSESSMENT CRITERION 4

All safety features and warning devices on the backhoe/loader are identified, and their purposes explained in accordance with manufacturer's specifications.

ASSESSMENT CRITERION 5

The maximum operating capacities are explained in terms of the designed backhoe/loader capabilities.

ASSESSMENT CRITERION 6

Warnings from backhoe/loader indicators and gauges are explained according to manufacturers specifications.

ASSESSMENT CRITERION 7

Corrective actions are described or demonstrated in terms of neutralising warnings received.

SPECIFIC OUTCOME 2

Plan for work activities and prepare work area.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Sequence of operations is determined according to site operational requirements.

ASSESSMENT CRITERION 2

Required equipment to perform the work activity is selected according to site operational requirements.

ASSESSMENT CRITERION RANGE

Equipment includes, but is not limited to:

- Machine attachments, personal protective equipment and safety signs.

ASSESSMENT CRITERION 3

Work area is inspected and prepared according to site operational requirements.

SPECIFIC OUTCOME 3

Start and shut down backhoe/loader.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Pre-operational checks are carried out according to appropriate checklist.

ASSESSMENT CRITERION 2

Daily and weekly operator maintenance is performed according to the appropriate post-operational checklist.

ASSESSMENT CRITERION 3

Start-up and shutdown procedures are followed according to manufacturer's specifications.

ASSESSMENT CRITERION 4

Backhoe/loader is parked according to manufacturer's and worksite requirements.

ASSESSMENT CRITERION 5

Backhoe/loader hours are documented in accordance with company requirements.

ASSESSMENT CRITERION 6

Backhoe/loader maintenance and faults are reported in accordance with company requirements.

SPECIFIC OUTCOME 4

Operate backhoe/loader.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The purpose of the various controls is explained in accordance with their designed use.

ASSESSMENT CRITERION 2

Functions of the various controls are demonstrated in accordance with the manufacturers specifications.

ASSESSMENT CRITERION 3

Temporary safety signs are explained in relation to their use and placement.

ASSESSMENT CRITERION 4

Backhoe/loader performance is monitored and corrective action is taken when necessary, in accordance with manufacturer's specifications.

ASSESSMENT CRITERION 5

Backhoe/loader is operated according to safe working procedures, manufacturer's specifications and earthmoving activity.

SPECIFIC OUTCOME 5

Transport backhoe/loader to and from site.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

Methods of loading a backhoe/loader for transport are explained according to safety requirements, manufacturer's instructions and transport configuration.

ASSESSMENT CRITERION 2

Methods of securing a backhoe/loader for transport are explained and demonstrated in relation to lashing points and safety requirements.

ASSESSMENT CRITERION 3

Driving a backhoe/loader on a public road according to the provisions of the current National Road Traffic Act.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

- Anyone assessing a learner or moderating the assessment of a learner against the qualification must be registered as an assessor with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Any institution offering learning that will enable the achievement of this qualification must be accredited as a provider with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Assessment and moderation of assessment will be overseen by the relevant Education, Training, Quality, Assurance (ETQA) Body, or by an ETQA that has a Memorandum of Understanding with the relevant ETQA, according to the ETQA's policies and guidelines for assessment and moderation.
- Moderation must include both internal and external moderation of assessments, unless ETQA policies specify

otherwise. Moderation should also encompass achievement of the competence described in the associated unit standards.

- Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

The qualifying learner will be able to understand and explain relevant aspects of the following:

- The Backhoe/loader's operation procedures and main functions of all major components.
- The maximum operating capacities of the designed Backhoe/loader capabilities.
- Statutory requirements including the Relevant Code of practice and Safety, Health & Environmental legislation.
- Worksite procedures.

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 monitoring the performance of a backhoe/loader during operations in which responses display that critical thinking is used for responsible decision making.

UNIT STANDARD CCFO WORKING

Work effectively as a member of a plant operation team with a civil construction team to achieve earthworks targets to required standard and within specified time frame.

UNIT STANDARD CCFO ORGANISING

Organise and manage oneself and one's activities responsibly and effectively in maintaining and monitoring the optimal performance and functionality of the backhoe/loader.

UNIT STANDARD CCFO COLLECTING

Collect, analyse, organise and critically evaluate information about the functionality and performance of the backhoe/loader in relation to the earthworks task to plan work activities and prepare work area.

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively using appropriate modes of oral and/or written persuasion in dealing with all internal and external role-players to plan work activity, prepare work area and complete earthmoving task according to safety requirements.

UNIT STANDARD CCFO SCIENCE

Use science and technology to maintain and operate a backhoe/loader in accordance with manufacturer's specifications and instructions in order to successfully complete a specific earthworks task.

UNIT STANDARD ASSESSOR CRITERIA

N/A

REREGISTRATION HISTORY

As per the SAQA Board decision/s at that time, this unit standard was Reregistered in 2012; 2015.

UNIT STANDARD NOTES

This unit standard replaces unit standard 116333, "Operate backhoe/loader", Level 2, 20 credits.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Elective	65789	National Certificate: Construction Plant Operations	Level 2	NQF Level 02	Reregistered	2018-06-30	CETA

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