

MQA SURFACE SKILLS PROGRAM – MQA/SP/0177/19

SAQA US ID	257076	SPECIALISATION ELECTIVE		
Unit Standard Title	Excavate and load material using hydraulic excavator			
NQF Level	03	SGB	Mining and Minerals	
Credits	26	Notional Hours		260
Duration	Candidate	Knowledge	Practical's	On the job
	Novice	3 days	6 days	20 days/ 160 hours
	RPL (Re-fresher)	1-2 days	1-3 days	N/A
	Re-certification	½ day	½ day	N/A
Ratio of candidates to assessor	4:1		4:1	1:1

NOTE: MQA SKILLS PROGRAM RULES BEFORE A SOR (Statement of Results) CAN BE ISSUED:

- All Cores need to be completed
- At least 1 Specialisation Elective
- At least 1 General Elective Unit Standard
- Additional 1 Day is required to conduct the Summative Practical Assessment after on the job exposure (logbook).

RPL Evidence Requirements Prior to Enrolment

- Mine Induction Records
- Medical Certificate
- Curriculum Vitae
- Testimonial

<p align="center"><u>PURPOSE OF THE COURSE</u></p> <p>This unit standard will be useful to people who are responsible for excavating and loading material using a hydraulic excavator.</p>	<p align="center"><u>PRE-REQUISITES</u></p> <ul style="list-style-type: none"> • Communication at NQF Level 2. • Mathematical Literacy NQF Level 2. • Certified copy of ID • Copy of learners Medical Certificate
<p><u>SPECIFIC OUTCOMES OF THE COURSE</u></p> <ul style="list-style-type: none"> • Demonstrate an understanding regarding the excavation and loading of material using a hydraulic excavator. • Prepare to excavate and load material. • Excavate and load material. • Complete the duties pertaining to the excavating and loading operation. 	
<p><u>ESSENTIAL EMBEDDED KNOWLEDGE</u></p> <p>The following embedded knowledge is addressed in an integrated way in the unit standard:</p> <p>Risks associated with workplace hazards:</p> <ul style="list-style-type: none"> • Overhang. • Large rocks. • Bench edges. • Environmental conditions e.g. dust, excessive water, visibility. • Power lines. • Moving machinery. <p>Risks associated with work related hazards:</p> <ul style="list-style-type: none"> • Working in proximity of moving machinery. • Pedestrians and other workers. • Working in proximity of cables. • Hydraulic pressure. • Roadway conditions. • Access control. • Manipulation of controls. • Lock out procedure 	

Basic principles of using an Excavator:

- Monitoring of instruments, gauges and safety systems.
- Manipulation of controls.

Processes and events:

- Workplace examination.
- Pre-use inspection of haul truck.
- Preparation.
- Take charge and operate paying attention to the manipulation of the controls, roadway conditions, pedestrians and prevention of injuries and property damage.

Occupational safety, health and environment:

- Hazards and risks encountered.
- Safety systems and health protection.
- Personal protective equipment.
- Environmental protection and pollution controls.
- Emergency procedures

Applicable statutory requirements:

- Applicable Acts and Regulations.
- Codes of Practice.
- Operator competency requirements.

Communication requirements:

- Reporting.
- Liaison with associated operators.
- Interpreting and implementing instructions

Logbook supporting evidence requirements:*** compulsory and ** additional supporting evidence.**

- Completed and signed Checklists *
- Completed and signed Risk Assessment *
- Clocking records and equipment tag records. **