

MQA UNDERGROUND SKILLS PROGRAM – MQA/SP/0173/17

SAQA US ID	244372	ELECTIVE UNIT STANDARD		
Unit Standard Title	Support an underground workplace by means of a hydraulic roof bolter			
NQF Level	03	SGB	Mining and Minerals	
Credits	5	Notional Hours		50
Duration	Candidate	Knowledge	Practical	Workplace
	Novice	2 days	3 days	5 days / 40 hours
	RPL (Re-fresher)	1 day	1 – 2 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 Elective with a minimum of 7 Credits from the Elective Unit Standard

<p align="center"><u>PURPOSE OF THE COURSE</u></p> <p>This unit standard will be useful to people who have to support an underground workplace by means of a hydraulic roof bolter</p>	<p align="center"><u>PRE-REQUISITES</u></p> <ul style="list-style-type: none"> • Follow basic occupational health and safety practices underground at NQF Level 2. • Take charge of and drive an articulating vehicle in an underground mine at NQF Level 2. • Identify and deal with rock strata conditions pertaining to the installation and maintenance of support at NQF Level 2 • Certified Copy of ID • Copy of learners Medical Certificate
<p align="center"><u>SPECIFIC OUTCOMES OF THE COURSE</u></p> <ul style="list-style-type: none"> • Explain the drilling and installation of support using a hydraulic roof bolter. • Prepare to drill holes and install support. • Drill holes and install support. • Perform-post drilling and installation activities 	<ul style="list-style-type: none"> • Material handling. • Chemicals. • Lock-out procedure. • Confined spaces <p>Basic principles of operation:</p> <ul style="list-style-type: none"> • Monitoring of instruments, gauges and safety systems. • Brake testing. • Manipulation of controls. <p>Processes and events:</p> <ul style="list-style-type: none"> • Preparation e.g. pre-use inspection, workplace examination and prevention of unauthorized entry. • Drill holes and install support. <p>Occupational safety, occupational health and environment:</p> <ul style="list-style-type: none"> • Hazards and risks encountered. • Safety systems and occupational health protection. • Personal protective equipment. • Environmental protection and pollution controls. • Emergency procedures. • Use of tools, material and equipment. <p>Applicable statutory requirements for a hydraulic roof bolter:</p> <ul style="list-style-type: none"> • Applicable Acts and Regulations. • Codes of Practice. • Operator competency requirements. <p>Communication requirements:</p> <ul style="list-style-type: none"> • Reporting. • Liaison with associated operators. • Interpreting and implementing instructions
<p align="center"><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 relating to:</p> <ul style="list-style-type: none"> • Support conditions. • Ground conditions. • Misfires in rocks. • Environmental conditions e.g. heat, gases, dust, excessive water, visibility and ventilation flow. <p>Risks associated with work related hazards relating to:</p> <ul style="list-style-type: none"> • Working in proximity of moving machinery. • Pedestrians and other workers. • Working in proximity of cables and pipes. • Hydraulic pressure. • Roadway conditions. • Access control. • Electrocution. 	

RPL Evidence Requirements Prior to Enrolment

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

Logbook supporting evidence requirements:

*** compulsory and ** additional supporting evidence.**

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