

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

SAQA US ID	244423	ELECTIVE UNIT STANDARD		
Unit Standard Title	Grade roadways by means of a motor grader in an underground mine			
NQF Level	03	SGB	Mining and Minerals	
Credits	8	Notional Hours		80
Duration	Candidate	Knowledge	Practical	Workplace
	Novice	2 days	4 days	3 days / 24 hours
	RPL (Re-fresher)	1 day	1 day	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
- Additional 1 Day is required to conduct the Summative Practical Assessment after workplace exposure (logbook).

<u>PURPOSE OF THE COURSE</u>	<u>PRE-REQUISITES</u>
This unit standard will be useful to people who uses a motor grader to grade material in an underground mine	<ul style="list-style-type: none"> • Follow basic occupational health and safety practices pertaining to mining operations at NQF Level 2. • Take charge of and drive an articulating vehicle in an underground mine at NQF Level 2. • Certified Copy of ID • Copy of learners Medical Certificate
<u>SPECIFIC OUTCOMES OF THE COURSE</u>	
<ul style="list-style-type: none"> • Explain the grading of roadways with a Self-Propelled Grader. • Prepare for grading of roadways with a Self-Propelled Grader. • Grade roadways with a Self-Propelled Grader 	
<u>ESSENTIAL EMBEDDED KNOWLEDGE</u>	
The following embedded knowledge is addressed in an integrated way in the unit standard:	
Risks associated with workplace hazards relating to:	
<ul style="list-style-type: none"> • Support conditions. • Unsafe ground conditions. • Environmental conditions e.g heat, dust, visibility and ventilation flow. • Harmful gases. • Excessive water. 	
Risks associated with work related hazards:	
<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. • Refuelling. • Fire to equipment. • Brake failure. 	
Power failures.	
<ul style="list-style-type: none"> • Debris in roadways. 	
Basic principles of operation:	
<ul style="list-style-type: none"> • Monitoring of instruments, gauges and safety systems. • Brake testing. 	

- Manipulation of controls.
- Occupational safety and occupational health environment:**
- 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.
- Applicable statutory requirements for a skid steer secondary drill rig:**
- Applicable Acts and Regulations.
- Codes of Practice.
- Operator competency requirements.
- Communication requirements:**
- Reporting.
- Liaison with associated operators.
- Interpreting and implementing instructions

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. **