

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

<b>SAQA US ID</b>	11669		<b>SPECIALISATION ELECTIVE</b>	
<b>Unit Standard Title</b>	Drill holes using a Small Diameter Rotary Drill not exceeding 170 mm			
<b>NQF Level</b>	02	<b>SGB</b>	Mining and Minerals	
<b>Credits</b>	10	<b>Notional Hours</b>		100
<b>Duration</b>	<b>Candidate</b>	<b>Knowledge</b>	<b>Practical</b>	<b>Workplace</b>
	<b>Novice</b>	2 days	4 days	5 days/ 40 hrs
	<b>RPL (Re-fresher)</b>	1-2 days	1-2 days	N/A
	<b>Re-certification</b>	½ day	½ day	N/A
<b>Ratio of candidates to assessor</b>	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 workplace exposure (logbook).

<p style="text-align: center;"><b><u>PURPOSE OF THE COURSE</u></b></p> <p>This Unit Standard will be useful to people who are responsible for drilling holes using a Rotary Drill not exceeding 170mm.</p>	<p style="text-align: center;"><b><u>PRE-REQUISITES</u></b></p> <p>The credit calculation is based on the assumption that learners are already competent in terms of the following outcomes or areas of learning when starting to learn towards this unit standard:</p> <ul style="list-style-type: none"> <li>• Knowledge of in-pit operation</li> <li>• Knowledge of material to be loaded (identification of materials)</li> <li>• An understanding of the basic principles of information technology</li> <li>• Copy of an ID certified no more than 3 months</li> </ul>
<p style="text-align: center;"><b><u>SPECIFIC OUTCOMES OF THE COURSE</u></b></p> <p><b>Prepare to drill holes.</b></p> <ol style="list-style-type: none"> <li>1. Interpret Job instructions</li> <li>2. Conduct hazard identification. - Hazards and defects must include the following Overhang: Large rocks,</li> <li>3. Bench edges, Power failures, Moving machinery, Water accumulations, Underfoot conditions.</li> <li>4. Conduct Pre-use inspection and report Defects</li> <li>5. Prepare for drilling operations according with marked-out area, drilling plans and specified requirements.</li> <li>6. Describe Consequences of inadequate preparation</li> <li>7. Describe lockout procedure</li> <li>8. Explain Machine support procedure</li> <li>9. Explain PPE.</li> <li>10. Explain the use of on-board safety systems.</li> </ol> <p><b>Drill holes.</b></p> <ol style="list-style-type: none"> <li>1. Start The machine and shut down in accordance with specified requirements.</li> <li>2. Conduct machine operation and report defects</li> </ol>	<ol style="list-style-type: none"> <li>3. Drill holes at the rate that is in accordance with the pre-determined target.</li> <li>4. Co-ordinated machine operations, enhance team work and avoid conflict within complementary operations.</li> <li>5. Conduct Reporting and recording in accordance with specified requirements.</li> <li>6. Relocation of machine is done in accordance with specified requirements.</li> <li>7. Work methods to eliminate, minimise or control the risk of ill health and injuries.</li> <li>8. Provide Feedback to the in-coming shift with regard to machine condition, environmental hazards and sub-standard conditions</li> </ol> <p><b>Monitor drilling operations.</b></p> <ol style="list-style-type: none"> <li>1. Monitor machine's performance and condition, hazards and defects</li> <li>2. Monitor and report continuously regarding safety hazards</li> <li>3. Monitor Occupational environmental elements and hazards</li> </ol>



**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. \*\*