



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

<b>SAQA US ID</b>	<b>244401</b>	<b>ELECTIVE UNIT STANDARD</b>		
<b>Unit Standard Title</b>	Charge shot holes with propellant based cartridges and accessories			
<b>NQF Level</b>	02	<b>SGB</b>	Mining and Minerals	
<b>Credits</b>	2	<b>Notional Hours</b>		20
<b>Duration</b>	<b>Candidate</b>	<b>Knowledge</b>	<b>Practical</b>	<b>Workplace</b>
	<b>Novice</b>	½ day	1½ day	1 day / 8 hours
	<b>RPL (Re-fresher)</b>	1 day	1 day	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 Elective with a minimum of 7 Credits from the Elective Unit Standard
- The Certificate will be issued after submission of the logbook

<b><u>PURPOSE OF THE COURSE</u></b>	<b><u>PRE-REQUISITES</u></b>
This unit standard will be useful to people who have to charge shot holes with propellant based cartridges and accessories	<ul style="list-style-type: none"> <li>• Follow basic occupational health and safety practices at NQF Level 1.</li> <li>• Certified Copy of ID</li> <li>• Copy of learners Medical Certificate</li> </ul>

**SPECIFIC OUTCOMES OF THE COURSE**

- Explain the charging of shot holes with propellant based cartridges and accessories.
- Prepare to charge shot holes with propellant based cartridges and accessories.
- Charge shot holes with propellant based cartridges and accessories.
- Perform post-charging activities

**ESSENTIAL EMBEDDED KNOWLEDGE**

The following embedded knowledge is addressed in an integrated way in the unit standard:

**Risks associated with work related hazards:**

- Handling of propellants.
- Transporting propellants.
- Preparing propellants.
- Charging with propellants.
- Storage of propellants.

**Risks associated with workplace hazards relating to:**

- Ground conditions.
- Support conditions.
- Accumulation of flammable gas.

**Characteristics and properties of propellants:**

- Water solubility.
- Detonation sensitivity.
- Benefits of cartridge propellants and accessories

**Processes and events:**

- Preparation of the holes.
- Preparation of the cartridges.
- Workplace examination and prevention of unauthorised entry.

**Occupational safety, occupational health and 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 charging shot holes with propellant based cartridges and accessories:**
- Applicable Acts and Regulations.
  - Codes of Practice.
- Communication requirements:**
- Reporting.
  - 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 inventory Checklists \*
- Completed and signed Risk Assessment \*
- Clocking records \*\*