


SKILLS PROGRAMME DOCUMENT						
This SP Doc is applicable to two Skills Programmes						
Skills Programme ID Number(s)		Skills Programme Title(s)				
SP-230350		Mining Raisebore Operator-Underground Hardrock Operations				
SP-230351		Mining Raisebore Operator-Underground Coal Operations				
NQF Level	3	Credits	48	Duration in days	60 days	
Skills Programme Status	APPROVED			Start Date	End Date	
				25/03/2023	25/03/2028	
Last date for enrolment	25/03/2029	Last date for achievement		25/03/2032		

SKILLS PROGRAMME DETAILS

1.	Title(s)	<ul style="list-style-type: none"> - Mining Raisebore Operator-Underground Hardrock Operations - Mining Raisebore Operator-Underground Coal Operations
2.	Sub Title	711301 Driller
3.	NQF Level	NQF Level 3
4.	Duration	60 days
5.	Credits	48
6.	Quality Assuring Body	Quality Council for Trades and Occupations (QCTO)
7.	Skills Programme Rationale	<p>The need for this skills programme is that drilling machines are used extensively in mining operations, so it is essential that raisebore operators are trained in their duties and responsibilities. Mining legislation prescribes that drillers must be qualified, by virtue of their knowledge, training, skills, and experience, before they are appointed. They must be trained, assessed, and found competent, in accordance with recognised training and development programmes.</p> <p>There is no similar skills programme recorded.</p> <p>Typical learners for this skills programme will be new entrants, or employed learners seeking to become raisebore operators.</p> <p>A typical learning pathway for a Raise Bore Operator will be to other machine operator specialisations and other occupations in operations or engineering. The benefits of this skills programme to the mining sector will be to have persons who are trained and declared competent for their specific duties and responsibilities, and to provide introductory, specialised training to enable them to advance their careers. Safe and productive mining operations are fundamental to the sector.</p> <p>The work is done in excavations that do not exist naturally but are created through rock breaking and blasting activities. This unique environment holds many hazards and risks for all personnel. The skills required to for the work require dedicated learning, application, and specialised and technical skills. Mining will remain the backbone of the South African economy for many years to come, and with the advance of technology there will, in the coming decades, be opportunities to return to and access the minerals left behind in the older mines. The mining and minerals sector will also be able to access resources that are currently too deep to mine. The development of the occupational competence as set out in this skills programme is essential to maintain and advance mining in the country.</p>

		This skills programme will benefit society in terms of skills and technical competencies since qualifying learners will improve work standards, health and safety, and effectiveness, and contribute to the growth of the country's economy.	
8.	Related registered qualification/s	Elementary Occupational Certificate: Mining Team Leader SAQA ID 120057: Intermediate Occupational Certificate: Miner	
9.	Purpose	<p>The purpose of this qualification is to prepare a learner to operate as a Mining Raisebore Operator.</p> <p>A Mining Raisebore Operator operates a raisebore drilling machine to complete raisebore or blind bore drilling, and related operations, as applicable. The qualifying learner will know the functioning and operating requirements of the raisebore system and ancillary equipment, including the health, safety, and environmental requirements, and will be able to operate the machine productively and safely, in accordance with organisational requirements</p> <p>The curriculum will be contextualised for underground hardrock or underground coal mining operations.</p> <p>A qualified learner will be able to:</p> <ul style="list-style-type: none"> Operate a raisebore drilling machine 	
10.	Content	<p>Knowledge component</p> <ul style="list-style-type: none"> 900155-000-00-KM-01 Workplace fundamentals, NQF Level 2, Credits 4 900134-000-00-KM-01 Health, safety, and the environment, NQF Level 2, Credits 4 900155-000-00- KM-01 Operations and machines, NQF Level 3, Credits 4 900155-000-00- KM-02 Components, controls, and consumables, NQF Level 3, Credits 4 900156-000-00- KM-01 Work team supervision, NQF Level 3, Credits 4 900196-000-00- KM-01 Raisebore drilling concepts, NQF Level 3, Credits 8 	<p>Application component</p> <p>Compulsory modules</p> <ul style="list-style-type: none"> 900134-000-00- PM-01 Apply, exercise, and ensure safety, health and environmental measures and procedures, NQF Level 2, Credits 4 900155-000-00- PM-01 Perform pre-operational activities, NQF Level 3, Credits 4 <p><u>A learner may choose any of the below electives:</u></p> <p>Elective module 1:</p> <p>Underground hardrock operations</p> <ul style="list-style-type: none"> 900196-000-00-PM-01 Operate a raisebore machine for underground hardrock operations, NQF Level 3, Credits 12 <p>Elective module 2</p> <p>Underground coal operations</p> <ul style="list-style-type: none"> 900197-000-00-PM-01 Operate a raisebore machine for

			underground coal operations, NQF Level 3, Credits 12
		Total credits: 28	Total credits: 20
11.	Minimum entry requirements	Open access	
12.	Exit Level Outcomes (ELO) and Associated Assessment Criteria (AAC)	<p>ELO: Operate a raisebore machine</p> <p>Associated Assessment Criteria:</p> <ul style="list-style-type: none"> Operational knowledge and understanding of occupational health, safety and environmental requirements and raisebore operations are applied. Raisebore operations are completed, in accordance with requirements. 	
13.	Continuous Assessment and Final Integrated Supervised Assessment (FISA)	<p>Continuous Assessment</p> <p>The SDP must ensure that all learners are enrolled with the QCTO at the start of training (within 5 days) in the format required by the QCTO.</p> <p>Continuous assessments are set by the SDP in accordance with the assessment criteria provided for each module for either underground hard rock or underground coal mining operations.</p> <p>This may consist of a variety of methods, e.g., practical, or written assessments, assignments, projects, demonstrations, presentations, or any other form of assessment to assist the learner in the learning process.</p> <p>During training, it is mandatory for formal summative assessments to take place at the end of each module/topic. These results must be formally recorded and be available for monitoring and/or evaluation by the QCTO.</p> <p>Final Integrated Supervised Assessment (FISA)</p> <p>All learners gain entrance to the Final Integrated Supervised Assessment by successfully completing all formal summative assessments conducted by the SDP.</p> <p>Format of FISA: A practical assessment integrating the relevant Exit Level outcomes, with simultaneous verbal assessment of embedded knowledge by the assessor before, during or after the FISA.</p> <p>All FISAs must be supervised, and virtual FISAs must be recorded throughout the assessment.</p> <p>All Exit Level Outcomes must be covered in the FISA. In the FISA, the learner must demonstrate applied knowledge and skills for either underground hard rock or underground coal mining operations to prove that the competencies of the Skills Programme have been achieved.</p> <p>The FISA may not contain any assessments used in the</p>	

		<p>"Continuous Assessment" process (thus no re-assessment). Special considerations should be made for candidates with special learning needs.</p> <p>Standards for Final Integrated Supervised Assessment (FISA):</p> <p>The learner should be provided with a brief/job card/task to demonstrate what the learner should show, know, or produce in a product, relevant to the Exit Level Outcomes and the purpose of the Skills Programme. This is the section where the learner must show applied competency (what the learner must be able to do, and to what expected standard)</p> <p>The FISA INSTRUMENT (Written case study, scenario, or brief/task [similar to a job card]) must be developed and moderated by the SDP and conducted in a supervised environment. It is assessed by means of a RUBRIC developed by the SDP for this purpose:</p> <p>A Competent Candidate must be able to carry out and conduct directional drilling operations, interpreting, applying, and exercising policies, procedures, performance parameters, controls, and operating standards.</p> <p>Given a simulated or actual for either underground hard rock or underground coal mining operations., the candidate must be able to:</p> <ul style="list-style-type: none"> • Deal with ground and strata conditions, in accordance with operating requirements • Perform pre-operational activities • Operate the machine <p>effectively and safely in accordance with statutory, regulatory, and organizational procedures, policies, codes of practice, standards and agreements.</p> <p>This Practical assessment should be a maximum of 2 hours.</p> <p>Whilst conducting the above practical, strategic, well-timed questions should be asked of the learner to assess embedded knowledge gained during the skills programme, as well as critical thinking and problem-solving skills: for e.g.</p> <ul style="list-style-type: none"> • "Why.....?" • "What would happen if ...?" • "When is done, what would the result be?" • "How would you deal with?" • Etc. <p>The marking rubric/compliance checklist used to assess these competencies must include a section for the assessor/facilitator used in this session to make a note of competencies shown, (or not shown), as well as the questions that were asked, and a summary of the learner's answers, and state whether these are of the acceptable standard or not.</p>
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14.	Recognition of Prior Learning (RPL)	<ul style="list-style-type: none"> • Learners will gain access to the skills programme through RPL for access as provided for in the QCTO RPL Policy. RPL for access is conducted by an accredited institution, skills development provider or workplace accredited to offer that specific skills programme. • Learners who have already acquired competencies of modules of a skills programme will be exempted from modules through RPL. Such learners will be awarded credits towards the skills programme. • Learners who complete this skills programme will accumulate credits towards the relevant full or part qualification. The Credit Accumulation and Transfer (CAT) Policy shall apply to these learners
15.	Work Opportunities and further learning	<p>This skills programme will enable qualifying learners to access Driller occupations in the Mining and Minerals Sector. A typical learning pathway in mining production operations would be to Blaster or Miner at NQF Level 3, and Shift Supervisor at NQF Level 4.</p>
16.	Skills Development Provider Accreditation Requirements	<p>Skills Development Providers will be ISO9000:2015, Quality Management, Certified.</p> <p><i>Physical Requirements:</i></p> <ul style="list-style-type: none"> • Training/facilitation resources, including fully equipped classroom and simulated mine support facilities, which comply with mining occupational health, safety, and environmental standards. • Assessment tools/instruments. • Relevant learning material. <p><i>Human Resource Requirements:</i></p>

		<ul style="list-style-type: none"> • Experienced Facilitators/trainers with a minimum NQF Level 3 ETDP qualification; and 1 years' experience in raise bore drilling and health and safety experience, support personnel and assessors appointed in accordance with the organisation's Quality Management system. <p><i>Legal Requirements:</i></p> <ul style="list-style-type: none"> • Registered Skills Development Providers (SDP) will comply with the requirements of the following, including all amendments, regulations, and directives, as applicable: <ul style="list-style-type: none"> ○ Occupational Health and Safety Act 85 of 1993 ○ Mine Health and Safety Act 29 of 1996 ○ Labour Relations Act 66 of 1995 ○ The Basic Conditions of Employment Act 75 of 1997 <p><i>Safety requirements:</i></p> <ul style="list-style-type: none"> • Facilitators and personnel /trainers conform to all statutory, regulatory, and organisational requirements
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