

SKILLS PROGRAMME DOCUMENT

This Skills Programme Doc is applicable to three (3) Skills Programmes



Skills Programme ID		Skills Programme Title(s)					
Number(s)							
SP-230306		Mining Rock Drill Operator-Underground Hardrock Operations					
SP-230307		Mining Rock Drill Operator – Underground Coal Operations					
SP-230308		Mining Rock Drill Operator – Surface Mining Operations					
NQF Level	2	Credits	20	Dur	ration in days 25 days		25 days
Skills Programme	V D D	APPROVED			Start Date	End Date	
Status	AFFI				25/03/2023	25/03/2028	
Last date for enrolment		25/03/2028	Last o	date	for achievement	25/03/2032	



SKILLS PROGRAMME DETAILS

1.	Title	- Mining Rock Drill Operator Underground
1.	Title	- Mining Rock Drill Operator-Underground Hardrock Operations
		- Mining Rock Drill Operator – Underground Coal
		Operations Operations
		- Mining Rock Drill Operator – Surface Mining Operations
2.	Sub Title	711302 Rock Drill Operator
3.	NQF Level	NQF Level 2
4.	Duration	25 days
5.	Credits	20 credits
6.	Quality Assuring Body	Quality Council for Trades and Occupations (QCTO)
7.	Skills Programme Rationale	The need for this skills programme is that various industry sectors use drilling machines. In particular, hand-held rock-drilling operations are an essential part of the mining sectors, so it is essential that Rock Drill Operators are
		trained in their duties and responsibilities.
		Mining legislation prescribes that the machine operators 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.
		There are three specific unique mining contexts where rockdrill operations are undertaken: Underground Hardrock, Underground Coal and Surface mining operations. Learners will be trained in a specific context.
		There is no similar skills programme recorded.
		Typical learners for this skills programme will be new entrants into the mining sector
		A typical learning pathway for hand-held rock drill operators will be to other machine operator specialisations and to occupations in operations, engineering or training.
		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.
		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



		to come, and with the advalue the coming decades, be operaces the minerals left belowining and minerals sector resources that are currently development of the occupation in this skills programme is eadvance mining in the countries skills programme will be advanced.	hind in the older mines. The will also be able to access to too deep to mine. The tional competence as set out essential to maintain and atry. Denefit society in terms of skills as since qualifying learners will ealth and safety, and
8.	Related registered qualification/s	SAQA ID 120057 Intermedi Miner	ate Occupational Certificate:
9.	Purpose	drill to drill holes for mining learner will know the function machine, including health, so requirements and will be ab productively and safely. The curriculum will be contents.	or operates a handheld rock operations. The qualifying oning and operating of the safety and the environmental ole to operate the machine extualised for underground I or surface mining operations.
10.	Content	900134-000-00-KM-01, Mine Health, safety, and the environment, NQF Level 2, Credits 4 900152-000-00-KM-01, Mining operations and machines, NQF Level 2, Credits 4	Application component Compulsory module/s: 900134-000-00-PM-01, Apply, exercise, and ensure safety, health and environmental measures and procedures for mining operations, NQF Level 2, Credits 4 A learner may choose any of the below electives: Elective module1: Underground hardrock operations 900152-000-00-PM-01, Operate a handheld rock



		Total credits: 8	drill for underground hardrock operations, NQF Level 2, Credits 8 Elective module 2: Underground Coal operations • 900153-000-00-PM-01, Operate a handheld rock drill for underground coal operations, NQF Level 2, Credits 8 Elective module 3: Surface mining operations • 900154-000-00-PM-01, Operate a handheld rock drill for surface mining operations, NQF Level 2, Credits 8
			Total credits: 12
11.	Minimum entry requirements	Open access.	
12.	Exit Level Outcomes (ELO) and Associated Assessment Criteria (AAC)	 Exit Level Outcome 1: Operate a handheld rock drill, interpreting, applying, and exercising policies, procedures, performance parameters, controls, and operating standards. Associated Assessment Criteria: Operational knowledge and understanding of occupational health, safety and environmental requirements and drilling operations are applied. The correct sequence of operations is followed. The machine is operated and used within specified limits. Man-machine interfaces are controlled safely and effectively. Rockdrill operations are completed, in accordance with requirements. 	
13.	Continuous Assessment and Final Integrated Supervised Assessment (FISA)	Continuous Assessment 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 QCT Continuous assessments a accordance with the outcon This may consist of a variet written assessments, assign demonstrations, presentations.	re set by the SDP in nes provided. y of methods, e.g. practical or nments, projects,



assessment to assist the learner in the learning process.

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.

Final Integrated Supervised Assessment (FISA)

All learners gain entrance to the Final Integrated Supervised Assessment by successfully completing all formal summative assessments conducted by the SDP.

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.

All FISAs must be supervised, and virtual FISAs must be recorded throughout the assessment.

All Exit Level Outcomes must be covered in the FISA. In the FISA, the learner must demonstrate applied knowledge and skills to prove that the competencies of the Skills Programme have been achieved.

The FISA may not contain any assessments used in the "Continuous Assessment" process (thus no reassessment).

Special considerations should be made for candidates with special learning needs.

Standards for Final Integrated Supervised Assessment (FISA):

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)

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:

A Competent Candidate must be able to carry out rock drilling operations, interpreting, applying, and exercising policies, procedures, performance parameters, controls, and operating standards.

Given a simulated or actual Underground Hardrock,



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		Underground Coal, or Surface mining context, the candidate must be able to complete rock drilling operations effectively and safely in accordance with statutory, regulatory and organizational procedures, policies, codes of practice, standards and agreements. This Practical assessment should be a maximum of 1
		hour. 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. "Why?" "What would happen if?" "When is done, what would the result be?" "How would you deal with?"
		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.
		The marking rubric/compliance checklist compiled should contain specific areas marked with an asterisk (*) as compulsory sections in order for the learner to be declared C (Competent). Compulsory sections are when the safety of the candidate or others would be affected if incorrectly completed.
		Learners who complete this skills programme will accumulate credits towards the relevant full or part qualification. The Credit Accumulation and Transfer (CAT) Policy may apply to these learners.
		Submission of final results
		Final results must be submitted to the QCTO in the required format, within 21 days of the date of the FISA, together with the following: Completed QA Verification Report on the FISA (QCTO template: relevant sections). A copy of the final Assessment Instrument used, as well as the marking guideline / rubric.
14.	Recognition of Prior Learning	Learners will gain access to the skills programme through RPL as provided for in the QCTO RPL Policy. RPL for access is conducted by accredited institution, skills development provider or workplace accredited to offer that specific skills programme.



		 Learners who have acquired competencies in skills programme will be credited for such topics through RPL. RPL for access to the Final Supervised Assessment: Accredited providers and approved workplaces must apply the internal assessment criteria specified in the skills programme document to establish and confirm prior learning and achievement of required competencies for the skills programme.
15.	Work Opportunities and further learning	This skills programme will enable qualifying learners to access Mining Worker occupations in the Mining and Minerals Sector. A typical learning pathway in mining production operations would be to Blasting Assistant or Team Leader at NQF Level 2, Miner at NQF Level 3, and Shift Supervisor at NQF Level 4.
16.	Skills Development Provider Accreditation Requirements	Skills Development Providers will be ISO9000:2015, Quality Management, Certified. Physical Requirements: Training/facilitation resources, including fully equipped classroom and simulated handheld rock drilling facilities and equipment, which comply with mining occupational health, safety, and environmental standards. Assessment tools/instruments. Relevant learning material. Human Resource Requirements: Suitably qualified and experienced facilitators, with a minimum NQF Level 3 ETDP qualification; and 1 years' experience in handheld rock drilling or health and safety experience, support personnel and assessors appointed in accordance with the organisation's Quality Management system. Legal Requirements: Registered Skills Development Providers (SDP) will comply with the requirements of the following, including all amendments, regulations, and directives, as applicable: 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