

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY.**

In accordance with Regulation 24 (c) of the National Standards Bodies Regulation of 28 March 1998, the Standards Generating Body for :

MINING AND MINERALS

Registered by NSB 06, Manufacturing, Engineering and Technology, publishes the following unit standards-based qualifications for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits and purposes of the qualifications, and the titles and specific outcomes of the unit standards upon which qualifications are based. The full qualifications and unit standards can be accessed via the SAQA web-site at www.saqa.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at SAQA offices, 659 Pienaar street, Brooklyn, Pretoria.

Comment on the qualifications and unit standards should reach SAQA at the address **below and no later than 3rd July 2001**. All correspondence should be marked **Standards Setting – SGB for Higher Education and Training and addressed to:**

The Director: Standards Setting and Development
SAQA
Attention: Mrs S. Vasuthevan
Postnet Suite 248
Private Bag X06
Waterkloof
0145
or Fax to 012 482 0907

PP **SAMUEL B.A ISAACS**
EXECUTIVE OFFICER

MINING QUALIFICATIONS AUTHORITY

THE MINING AND MINERALS SGB (M&M SGB)

TOPIC: PROPOSED QUALIFICATIONS FRAMEWORK

Background

At the **M&M SGB** meeting of 12 April 2001, the chairperson of the Qualifications Design Task Team (**QD TT**) tabled a draft proposed Qualifications Framework (**QF**) which reflects a further expansion of the Don Turvey sub-task group's proposed **QF** that was presented at the **QD TT** follow-up Qualifications Design Plenary Workshop on 19 February 2001.

Discussion

In accordance with the conclusions and recommendations of the Report of the Ingqokelela **SQCG** Workshop held in October 2000, the proposed **QF** makes a clear distinction between predominant technical qualifications on the one hand and predominant Supervision/Management/Leadership (**SML**) qualifications on the other hand (see **APPENDIX A**).

The **QF** also makes provision for a unique coded **Practising Person Footprint (PPFs)** for the selection of the appropriate elective options for each qualification in accordance with the recommendations of the **QD TT** Report on Common Vocabulary, Definitions, Concepts:

PRACTISING PERSON FOOTPRINT

QUALIFICATIONS	LICENSING	REGISTRATION	CURRENCY
PPC or PPC	DL or ML	DR or MR	C

LEGEND:

PPQ	=	Practising Person with a Qualification Registered on the NQF
PPC	=	Practising Person with an Agreed Cluster of Unit Standards registered on the NQF
ML	=	Mandatory Licensing
DL	=	Discretionary Licensing
MR	=	Mandatory Registration
DR	=	Discretionary Registration
C	=	Currency of Competence

Commissioned by the Mining Qualifications Authority (MQA).

Both the proposed/indicated **NQF** levels, **PPFs** and qualification nomenclature would have to be substantiated/confirmed by the actual designed qualifications. This reflects the first tier of the **QF** for the two main categories of qualifications namely **Technical** and **SML**.

The second tier of the **QF** envisages making provision for specific (unique) sub-sector needs, e.g.:

<u>ENVISAGED QUALIFICATION</u>	<u>SUB-SECTOR NEEDS</u>
NC in Mining Operations	(a) Underground Hard Rock Operations (b) Underground Coal Operations (c) Surface operations

APPENDICES B and **C** illustrate how the **QF** could be used to meet specific sub-sector needs. The appendix also illustrates the notion of common or generic core components of the envisaged qualifications.

Qualification designers should show diligence in identifying and describing these common (generic) core competencies since they are expected to reduce the sheer numbers of **USs** to be registered on the **NQF**. They will also reflect/be indicative of the portability of the proposed qualifications.

APPENDICES B and **C** also illustrate the use of the elective components of qualifications to make provision for specialisation ("strands") needs, e.g.:

<u>SUB-SECTOR NEEDS</u>	<u>SPECIALISATION/"STRANDS"</u>
Underground Hard Rock Operations	(i) Stopping (ii) Development

Recommendations

The **QD TT** requests the **M&M SGB** to consider/approve the following recommendations:

- (a) The proposed **QF** inclusive of the following aspects:
 - (i) the first tier of qualifications in the two separated broad categories of qualifications namely **TECHNICAL** and **SML**;
 - (ii) the approach at the second tier of the proposed **QF** to provide for specific (unique) sub-sector, vocational or specialisation needs through the notion of common (generic), compulsory and elective components of the qualifications, and
- (b) The allocation of a unique coded **Practising Person Footprint (PPF)** to each proposed qualification.

APPENDIX A p.1

MINING AND MINERALS SGB PROPOSED QUALIFICATIONS FRAMEWORK SUPERVISION/MANAGEMENT/LEADERSHIP

MINE MANAGEMENT/LEADERSHIP	
8	NATIONAL DEGREE IN MINE LEADERSHIP [PPQ/DL/DR/C]
7	NATIONAL DEGREE IN MINE MANAGEMENT [PPQ/ML/MR/C]
	MINERAL EXCAVATION
	METALLURGICAL PROCESSING
6	NATIONAL DIPLOMA IN OPERATIONS MANAGEMENT [PPQ/ML/DR/C]
5	NATIONAL DIPLOMA IN OPERATIONS OVERSEEING [PPQ/DL/-/-]
4	NATIONAL CERT. IN OPERATIONS SUPERVISION [PPC/DL/-/-]
3	NATIONAL CERT. IN OPERATIONS SUPERVISION [PPC/DL/-/-]
	SUPPORTIVE SERVICES
	ENGINEERING OTHERS
	NATIONAL DIPLOMA IN MINING S/S MANAGEMENT [PPQ/ML/DR/C]
	NATIONAL DIPLOMA IN S/S OVERSEEING [PPQ/DL/-/-]
	NATIONAL CERTIFICATE IN S/S SUPERVISION [PPQ/DL/-/-]

LEGEND
PPQ =
PPC =
ML =
ABET =

PRACTISING PERSON WITH QUALIFICATION REGISTERED ON NOF
PRACTISING PERSON WITH AGREED CLUSTER OF UNIT STANDARDS REGISTERED ON THE NOF
MANDATORY LICENSING
ADULT BASIC EDUCATION AND TRAINING

DL = DISCRETIONARY LICENSING
DR = DISCRETIONARY REGISTRATION
MR = MANDATORY REGISTRATION

MINING AND MINERALS SGB PROPOSED QUALIFICATIONS FRAMEWORK TECHNICAL QUALIFICATIONS

LEVELS 5-8 ENGINEERING/SCIENTIFIC/SOCIAL SCIENCES QUALIFICATIONS			
8	NATIONAL ADVANCED DEGREE: ENGINEERING/SCIENTIFIC & OTHER QUALIFICATIONS [PPQ/DL/DR/C]		
7	NATIONAL DEGREE ENGINEERING/SCIENTIFIC & OTHER QUALIFICATIONS [PPQ/ML/MR/C]		
6	NATIONAL DEGREE: e.g. BTECH ENGINEERING/SCIENTIFIC & OTHER QUALIFICATIONS [PPQ/ML/MR/C]		
5	NATIONAL DIPLOMA: ENGINEERING/SCIENTIFIC & OTHER QUALIFICATIONS [PPQ/ML/MR/C]		
4	MINERAL EXCAVATION	METALLURGICAL PROCESSING	SUPPORTIVE SERVICE
			ENG INSTALLATION/MAINTENANCE
			OTHERS
4	NATIONAL CERTIFICATE IN MINING OPERATIONS [PPQ/MLJ--C]	NATIONAL CERTIFICATE IN MINERAL PROCESSING [PPQ/DLJ--I]	NC IN SUPPORTIVE SERVICES (e.g. ROCK ENGINEERING) [PPQ/ML/DR/C]
		NATIONAL CERTIFICATE IN MINERAL BENEFICIATION [PPQ/DLJ--I]	NC IN SUPPORTIVE SERVICES (e.g. ROCK ENGINEERING) [PPQ/DLJ--I]
2	NATIONAL CERTIFICATE IN MINING OPERATIONS [PPQ/MLJ--C]		
1	NATIONAL GETC [PPQ/DLJ--I]	INTRODUCTION TO MINING (ABET 4/GETC 1)	

LEGEND

PPQ = PRACTISING PERSON WITH QUALIFICATION REGISTERED ON NQF

PPC = PRACTISING PERSON WITH AGREED CLUSTER OF UNIT STANDARDS REGISTERED ON THE NQF

ML = MANDATORY LICENSING

ABET = ADULT BASIC EDUCATION and TRAINING

DL = DISCRETIONARY LICENSING

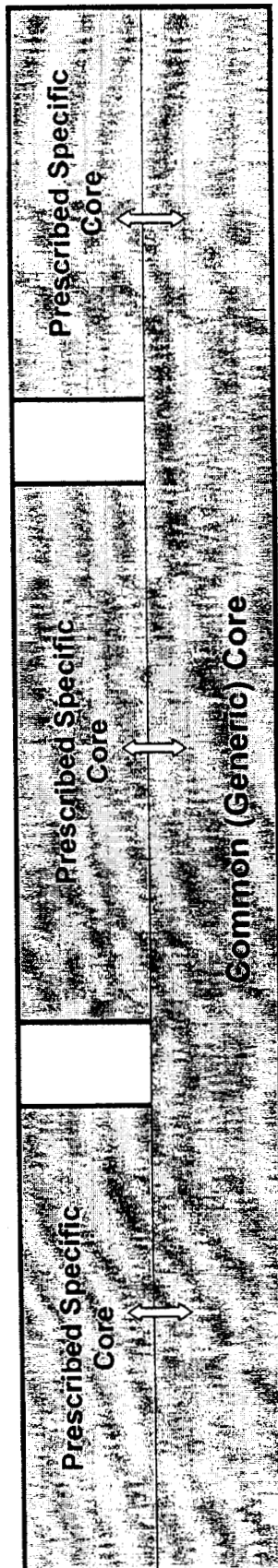
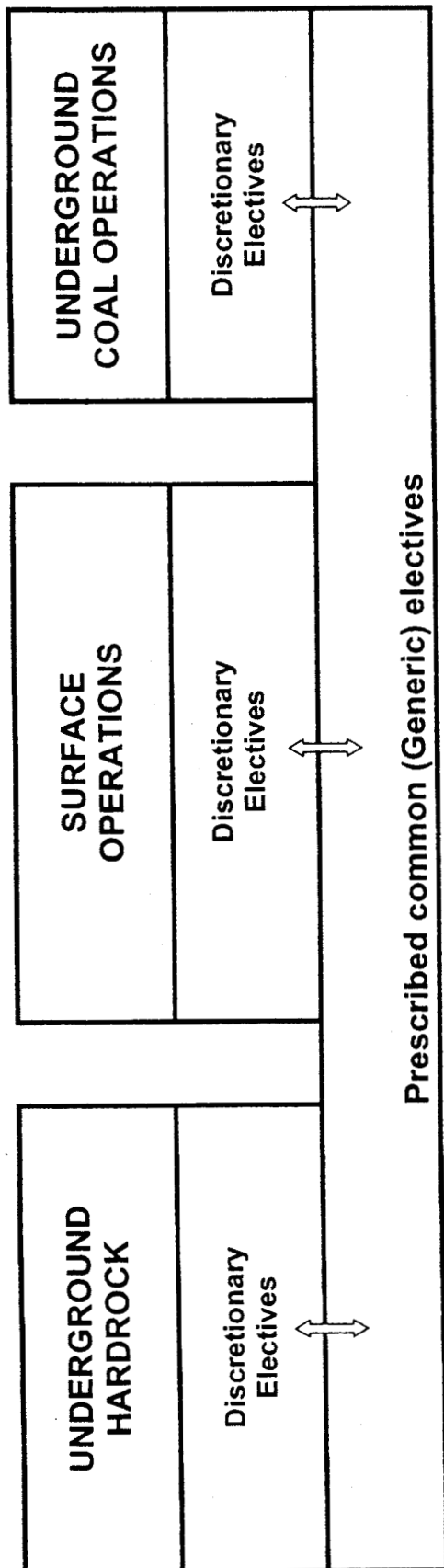
MR = MANDATORY REGISTRATION

DR = DISCRETIONARY REGISTRATION

C = CURRENCY OF COMPETENCY

APPENDIX B

THE DRAFT NATIONAL CERTIFICATE IN MINING OPERATIONS



APPENDIX C

THE DRAFT NATIONAL CERTIFICATE IN MINING SUPPORT SERVICES

OH&S	MECH	MECH	VENT	TRANSPORT
Discretionary Electives	Discretionary Electives	Discretionary Electives	Discretionary Electives	Discretionary Electives
Prescribed common (Generic) electives				

Prescribed Specific Core	Prescribed Specific Core	Prescribed Specific Core	Prescribed Specific Core	Prescribed Specific Core
Common (Generic core)				

Fundamental