

# Government Gazette Staatskoerant

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AIDS HELPLINE: 0800-0123-22 Prevention is the cure

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# GOVERNMENT NOTICES

# SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 1281

12 September 2003



# SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

#### Mining and Minerals

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

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the unit standards upon which qualifications are based. The unit standards can be accessed via the SAQA web-site at <a href="https://www.saqa.org.za">www.saqa.org.za</a>. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, Hatfield Forum West, 1067 Arcadia Street, Hatfield.

Comment on the unit standards should reach SAQA at the address **below and no later than**13 Octobert 2003. All correspondence should be marked Standards Setting – SGB for
Mining and Minerals and addressed to

The Director: Standards Setting and Development

SAQA
Attention: Mr. D Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
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or faxed to 012 - 431 5144 e-mail: mmphuthing@saqa.co.za

JOÉ SAMUELS

DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



# **UNIT STANDARD:**

# Clean plant and equipment

SAQA US ID	UNIT STANDARD TITLE							
110209	Clean plant and equipment							
SGB NAME			ABET BAN	D PROVIDER NAM	E			
SGB Mining and Minerals			Undefined					
FIELD DESCI	RIPTION		SUBFIELL	D DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	n and Extraction				
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular			Level 1	3				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate an understanding of the cleaning of plant and equipment.

#### SPECIFIC OUTCOME 2

Prepare for cleaning.

# SPECIFIC OUTCOME 3

Clean machinery and equipment.

#### SPECIFIC OUTCOME 4

Adhere to safety and health requirements.

4



#### **UNIT STANDARD:**

2

# Demonstrate a basic knowledge and understanding of typical surface mining processes and layouts

SAQA US ID	UNIT STANDARD TITLE									
110194	Demonstrate a basic knowledge and understanding of typical surface mining processes and layouts									
SGB NAME	-		ABET BANK	D	PROVIDER NAME					
SGB Mining and Minerals			Undefined		A21 1000000 000 000 000 000 000 000 000 0					
FIELD DESCR	RIPTION		SUBFIELL	D DE	SCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	n and	Extraction					
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NG	F LEVEL	CREDITS				
MET-FBE-0-S	GB MM	Regular		Lev	/el 1	6				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate basic knowledge of overburden removal.

#### SPECIFIC OUTCOME 2

Explain basic methods of rockbreaking.

#### SPECIFIC OUTCOME 3

Describe basic methods of loading and hauling.

#### SPECIFIC OUTCOME 4

Explain basic methods of rehabilitation.



#### **UNIT STANDARD:**

3

# Demonstrate a basic knowledge and understanding of typical underground coal mining processes and layouts

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE							
110148	Demonstrate a basic knowledge and understanding of typical underground coal mining processes and layouts								
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER NAMI					
			Undefined		TOWN CONTROL TO				
FIELD DESCR	RIPTION		SUBFIELL	DESCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-SGB MM Regular		***************************************	Level 1	3					

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate basic knowledge of coal breaking.

#### SPECIFIC OUTCOME 2

Explain basic methods of loading coal.

# SPECIFIC OUTCOME 3

Explain basic methods of transporting coal.



#### UNIT STANDARD:

4

# Demonstrate a basic understanding of small-scale mining

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE							
110128	Demonstrate a basic understanding of small-scale mining								
SGB NAME			ABET BANK	PROVIDER NA	AME				
SGB Mining and Minerals			Undefined						
FIELD DESC	RIPTION		SUBFIELD	DESCRIPTION					
Manufacturin	g, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-SGB MM Regular			Level 1	3					

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe current small-scale mining activity in South Africa.

#### SPECIFIC OUTCOME 2

Describe the small-scale mining methods.

# SPECIFIC OUTCOME 3

Describe small-scale mineral processing methods.

### SPECIFIC OUTCOME 4

Describe the characteristics of the marketing of small-scale mineral commodities.



#### **UNIT STANDARD:**

5

# Demonstrate a basic understanding of the history of small-scale mining

SAQA US ID	UNIT STANDARD TITLE							
110140	Demonstrate a basic understanding of the history of small-scale mining							
SGB NAME SGB Mining and Minerals			ABET BAN	ET BAND PROVIDER NAME				
			Undefined					
FIELD DESC	RIPTION		SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 1	1			
				The second secon				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the history of small-scale mining.

#### SPECIFIC OUTCOME 2

Describe the mineral rights system prior to the promulgation of the Mineral and Petroleum.

#### SPECIFIC OUTCOME 3

Describe the key elements in the new Mineral and Petroleum Resource Bill.



#### **UNIT STANDARD:**

6

Demonstrate a basic understanding of the statutory requirements for the establishment of a small-scale mine

SAQA US ID		UNIT STANDARD TITLE						
110149	Demonstrate a basic understanding of the statutory requirements for the establishment of a small-scale mine							
SGB NAME			ABET BANK	PROVIDER NAM	IE			
SGB Mining and Minerals			Undefined					
FIELD DESCI	RIPTION	. It	SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	64°			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular		10000	Level 1	2				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate a basic understanding of general legislation pertaining to the mining industry.

#### SPECIFIC OUTCOME 2

Demonstrate a basic understanding of the key elements of the mineral specific acts.

#### SPECIFIC OUTCOME 3

Demonstrate a basic understanding of the legal requirements.



# **UNIT STANDARD:**

7

# Demonstrate a basic understanding of the use of tools and equipment used for processing diamonds

	UNIT STANDA	UNIT STANDARD TITLE								
110219	Demonstrate a basic understanding of the use of tools and equipment used for processing diamonds									
SGB NAME			ABET BANK	PROVIDER NAME	<del>(Синики)   16</del>					
SGB Mining and Minerals			Undefined							
FIELD DESCI	RIPTION		SUBFIELL	DESCRIPTION						
Manufacturing	, Engineering and	Technology	Fabrication and Extraction							
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS					
MET-FBE-0-S	GB MM	Regular		Level 1	2					

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Identify the tools and equipment used in the processing of diamond gemstones.

#### SPECIFIC OUTCOME 2

Describe the basic application of the tools and equipment used in diamond processing.

#### SPECIFIC OUTCOME 3

Explain the importance of care for tools and equipment.



#### **UNIT STANDARD:**

8

# Demonstrate a basic understanding of where to obtain information on mineral deposit in South Africa

SAQA US ID		UNIT STANDARD TITLE							
110145	Demonstrate a basic understanding of where to obtain information on mineral deposit in South Africa								
SGB NAME	7		ABET BANK	PROVIDER NAME					
SGB Mining and Minerals			Undefined		.+				
FIELD DESCI	RIPTION		SUBFIELL	DESCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-S	GB MM	Regular		Level 1	- 1				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the location of economic minerals in South Africa.

#### SPECIFIC OUTCOME 2

Name and describe the sources of information used to locate mineral deposits.

#### SPECIFIC OUTCOME 3

Give the information required to describe mineral deposits.



# **UNIT STANDARD:**

9

# Demonstrate an awareness of customer service

SAQA US ID	UNIT STANDARD TITLE								
110200	Demonstrate an awareness of customer service								
SGB NAME SGB Mining and Minerals			ABET BAN	D P	ROVIDER NAME				
			Undefined			······································			
FIELD DESCI	RIPTION		SUBFIELD	DESC	CRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and E	xtraction				
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF	LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular			Level	1	2				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to customer service.

#### SPECIFIC OUTCOME 2

Respond to customer requirements.



# **UNIT STANDARD:**

10

# Demonstrate basic knowledge of applicable mine gases

SAQA US ID	UNIT STANDARD TITLE  Demonstrate basic knowledge of applicable mine gases							
110177								
SGB NAME		<del></del>	ABET BANK	PROVIDER NA	ME			
SGB Mining and Minerals		Undefined						
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 1	6			

# Specific Outcomes:

#### SPECIFIC OUTCOME 1

Demonstrate knowledge of the applicable gases.



# **UNIT STANDARD:**

11

# Demonstrate basic knowledge of plan reading

SAQA US ID	UNIT STANDARD TITLE							
110173	Demonstrate basic knowledge of plan reading							
SGB NAME SGB Mining and Minerals			ABET BAN	D	PROVIDER NAME			
			Undefined		: 0	-		
FIELD DESCI	RIPTION	77) (0	SUBFIEL	) DE	SCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	n and	d Extraction	E SE		
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NO	QF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Le	vel 1	3		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge and understanding of basic plan reading.



#### **UNIT STANDARD:**

# Demonstrate basic understanding of different activities related to extraction of minerals

SAQA US ID	UNIT STANDARD TITLE						
110139	Demonstrate basic understanding of different activities related to extraction of minerals						
SGB NAME SGB Mining and Minerals		ABET BANK	PROVIDER NAME	pat se			
		Undefined					
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	(6)		
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular	2 2002	Level 1	6		

# **Specific Outcomes:**

# SPECIFIC OUTCOME 1

Demonstrate basic understanding of commissioning processes of a mine for the extraction of minerals.

#### SPECIFIC OUTCOME 2

Demonstrate basic understanding of the processes involved in the extraction of minerals on a mine.

#### SPECIFIC OUTCOME 3

Demonstrate the basic understanding of the processes involved in the decommissioning of a mine.



# **UNIT STANDARD:**

13

#### Demonstrate knowledge and ability to work in a surface mine

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110191	Demonstrate i	Demonstrate knowledge and ability to work in a surface mine						
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER NAM	E			
			Undefined		5			
FIELD DESCI	RIPTION		SUBFIEL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	NIT STANDARD CODE UNIT STAND		DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 1	8			

#### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the requirements of the relevant aspects of the Mine Health and Safety Act.

#### SPECIFIC OUTCOME 2

Demonstrate understanding of emergency procedures.

#### SPECIFIC OUTCOME 3

Demonstrate an awareness of strata conditions.

#### SPECIFIC OUTCOME 4

Demonstrate an awareness of applicable I.S.O. standards.



#### **UNIT STANDARD:**

14

#### Demonstrate knowledge of how a business works in the Mining and Minerals Sector

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110121	Demonstrate knowledge of how a business works in the Mining and Minerals Sector							
SGB NAME			ABET BANK	PROVIDE	R NAME			
SGB Mining and Minerals		Undefined						
FIELD DESC	RIPTION	G (200	SUBFIELL	DESCRIPTIO	N			
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extraction	٠			
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	SGB MM	Regular	† 	Level 1	2			

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge of business principles.

#### SPECIFIC OUTCOME 2

Demonstrate knowledge of key factors of business in the mining and minerals sector.

#### SPECIFIC OUTCOME 3

Demonstrate knowledge of key tools to measure and manage a business.

#### SPECIFIC OUTCOME 4

Demonstrate an understanding of the business they are, or intend to be involved in.



#### **UNIT STANDARD:**

15

# Demonstrate knowledge of the most common harmful gases and vapours

SAQA US ID	UNIT STANDARD TITLE						
110118	Demonstrate knowledge of the most common harmful gases and vapours						
SGB NAME	AME A			ABET BAND PROVIDER NAME			14
SGB Mining and Minerals			Undefined	til compre			
FIELD DESCR	RIPTION		SUBFIELL	D DÈ	SCRIPTION		· .
Manufacturing	, Engineering a	nd Technology	Fabrication	n an	d Extraction	range a c	
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	N	QF LEVEL		CREDITS
MET-FBE-0-S	GB MM	Regular	* , , ,	Le	vel 1	7	1

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the specified requirements pertaining to these gases and vapours.

#### SPECIFIC OUTCOME 2

Describe the characteristics, sources, occurrence and effects of these gases and vapours.



#### UNIT STANDARD:

16

# Demonstrate knowledge of the relevant terminology used in mining

SAQA US ID	UNIT STAND	INIT STANDARD TITLE						
110136	Demonstrate I	Demonstrate knowledge of the relevant terminology used in mining						
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER NAME		5 75 75		
			Undefined	4 1	ef . J			
FIELD DESCI	RIPTION	4 . 1	SUBFIEL	DESCRIPTION	15 6			
Manufacturing, Engineering and Technology			Fabrication	and Extraction	2 70 000			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	. 4 .	CREDITS		
MET-FBE-0-S	GB MM	Regular	<del>, "</del> 1."- "-	Level 1		3		

# **Specific Outcomes:**

# SPECIFIC OUTCOME 1

Demonstrate knowledge of basic mining terminology.



# **UNIT STANDARD:**

17

# Demonstrate knowledge to feed and break coal using a feeder breaker

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110180	Demonstrate knowledge to feed and break coal using a feeder breaker							
SGB NAME SGB Mining and Minerals			ABET BAN	D	PROVIDER NAME			
			Undefined					
FIELD DESCI	RIPTION		SUBFIELL	D DE	SCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	n an	d Extraction			
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	N	QF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Le	vel 1	1		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge of basic feeding and breaking principles.

#### SPECIFIC OUTCOME 2

Demonstrate knowledge of basic health and safety principles pertaining to the feeder breaker.



# **UNIT STANDARD:**

18

# Demonstrate knowledge to install a ventilation curtain

SAQA US ID	UNIT STANDA	ARD TITLE	77		10 KF	
110157	Demonstrate k					
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER NAME		
			Undefined		* E 8 M C	
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION	T 4	
Manufacturing, Engineering and Technology			Fabrication	and Extraction		
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	g (1. F	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 1	1	1

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge of basic ventilation curtain principles and installation methods.



#### **UNIT STANDARD:**

21

# Describe the history of the diamond processing industry

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110123	Describe the h	Describe the history of the diamond processing industry						
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER I	VAME			
			Undefined					
FIELD DESC	RIPTION		SUBFIELI	DESCRIPTION				
Manufacturing	g, Engineering ar	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 1	2			

# Specific Outcomes:

#### SPECIFIC OUTCOME 1

Describe the stages of development of the diamond processing industry.

#### SPECIFIC OUTCOME 2

Identify the main diamond processing countries and describe their evolution.

#### SPECIFIC OUTCOME 3

Demonstrate knowledge of famous diamond gemstones.



#### **UNIT STANDARD:**

22

# Describe the shapes and applications of diamond gemstones

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110129	Describe the s	Describe the shapes and applications of diamond gemstones					
SGB NAME SGB Mining and Minerals			ABET BANK	PROVIDER I	NAME		
			Undefined				
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION			
Manufacturing, Engineering and Technology		Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 1	1		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the shapes of processed diamond gemstones.

#### SPECIFIC OUTCOME 2

Identify the main diamond processing techniques that create the shapes.

#### SPECIFIC OUTCOME 3

Explain the main applications of the different diamond gemstone shapes.



#### **UNIT STANDARD:**

23

# Condition material for further processing

SAQA US ID	UNIT STAND	NIT STANDARD TITLE						
110115	Condition material for further processing							
SGB NAME			ABET BAN	D PI	ROVIDER NAME			
SGB Mining and Minerals		Undefined						
FIELD DESCR	RIPTION		SUBFIELI	DESC	RIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	n and E	xtraction			
UNIT STANDA	DARD CODE UNIT STANL		DARD TYPE	NQF	LEVEL	CREDITS		
MET-ENG-0-S	GB MM	Regular	***************************************	Level	2	3		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the conditioning process.

#### SPECIFIC OUTCOME 2

Prepare to condition material.

#### SPECIFIC OUTCOME 3

Condition material.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the conditioning process.



#### **UNIT STANDARD:**

24

# Conduct weighbridge operations

SAQA US ID	UNIT STAND	ARD TITLE	6			
110211	Conduct weigh	nbridge operation				
SGB NAME			ABET BANK	PROVIDER NAME		= 7
SGB Mining and Minerals		Undefined				
FIELD DESC	RIPTION	SUBFIELD DESCRIPTION		DESCRIPTION		10 To
Manufacturing, Engineering and Technology		Fabrication	and Extraction	7	To the second se	
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CRED	OITS
MET-FBE-0-S	GB MM	Regular	18.5	Level 2	3	

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate an understanding of weighbridge operations.

#### SPECIFIC OUTCOME 2

Plan and prepare for weighbridge operation.

# SPECIFIC OUTCOME 3

Operate the weighbridge.

# SPECIFIC OUTCOME 4

Adhere to legal, safety and health requirements.



#### **UNIT STANDARD:**

25

# Control the pH level in metallurgical process

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE							
110162	Control the pl-	Control the pH level in metallurgical process							
SGB NAME	4.74		ABET BAN	PROVIDER NAME					
SGB Mining and Minerals			Undefined						
FIELD DESCR	RIPTION		SUBFIELD DESCRIPTION						
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-S	GB MM	Regular	7	Level 2	4				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the controlling of the pH level.

#### SPECIFIC OUTCOME 2

Prepare to control the pH level.

# SPECIFIC OUTCOME 3

Control the pH level.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the controlling process.



# **UNIT STANDARD:**

26

# Demonstrate basic knowledge and use of a hand held fire extiguisher

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110192	Demonstrate basic knowledge and use of a hand held fire extiguisher						
SGB NAME			ABET BAN	ABET BAND PROVIDER NAME			
SGB Mining and Minerals FIELD DESCRIPTION		Undefined			r' -		
		SUBFIELD DESCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	Fabrication and Extraction			
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	N	QF LEVEL	CREDITS	
MET-FBE-0-S	GB MM	Regular	gular		evel 2	1	

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the factors pertaining to the use of a hand held fire extinguisher.

# SPECIFIC OUTCOME 2

Use a hand held fire-fighting extinguisher.



# **UNIT STANDARD:**

27

# Demonstrate basic knowledge of strata support in an undergound coal mine

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110202	Demonstrate basic knowledge of strata support in an undergound coal mine							
SGB NAME		ABET BAN	ABET BAND PROVIDER NAME					
SGB Mining and Minerals			Undefined		ii			
FIELD DESCR	RIPTION	*	SUBFIELI	DESCRIPTION				
Manufacturing, Engineering and Technology			Fabrication	n and Extraction				
UNIT STANDA	ARD CODE	UNIT STANL	OARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 2	5			

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the principles of primary support.

# SPECIFIC OUTCOME 2

Explain the principles of secondary support.



# **UNIT STANDARD:**

28

# Demonstrate knowledge of the Mine Health and Safety Act, regulations and definitions

SAQA US ID	UNIT STANDARD TITLE					
110205	Demonstrate knowledge of the Mine Health and Safety Act, regulations and definitions					
SGB NAME			ABET BANK	PROVIDER NAME		
SGB Mining a	nd Minerals		Undefined			
FIELD DESC	RIPTION		SUBFIELD	DESCRIPTION		
Manufacturing	, Engineering an	nd Technology	Fabrication	and Extraction		
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS	
MET-FBE-0-S	GB MM	Regular		Level 2	5	

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the relevant requirements of the Mine Health and Safety Act (29/1996).

#### SPECIFIC OUTCOME 2

Explain the relevant requirements of the Regulations.

#### SPECIFIC OUTCOME 3

Explain the contents of the relevant definitions.



#### **UNIT STANDARD:**

29

# Demonstrate knowledge to sound and bar down roof and side wall in an underground coal mine

SAQA US ID	UNIT STANDARD TITLE  Demonstrate knowledge to sound and bar down roof and side wall in an underground coal mine						
110198							
SGB NAME			ABET BAN	D	PROVIDER NAME		
SGB Mining and Minerals		Undefined					
FIELD DESCR	RIPTION		SUBFIELD DESCRIPTION			The second secon	
Manufacturing, Engineering and Technology		Fabrication :		d Extraction	7		
UNIT STANDARD CODE UNIT STAND		DARD TYPE	N	QF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	MM Regular		Le	vel 2	1	

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the preparation to sound and bar roof and side walls.

#### SPECIFIC OUTCOME 2

Explain the barring and sounding procedures of roof and side walls.



#### **UNIT STANDARD:**

30

# Determine velocity of air in a workplace by means of the tape method and take appropriate action

SAQA US ID	UNIT STANDARD TITLE  Determine velocity of air in a workplace by means of the tape method and take appropriate action						
110122							
SGB NAME			ABET BAN	D	PROVIDER NAME		
SGB Mining and Minerals		Undefined					
FIELD DESC	RIPTION		SUBFIELI	D DI	ESCRIPTION		
Manufacturing	, Engineering a	nd Technology	Fabrication	n an	d Extraction		
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	N	QF LEVEL	CREDITS	
MET-FBE-0-S	GB MM	Regular		Le	evel 2	1	

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the specified requirements pertaining to determining the velocity of air.

#### SPECIFIC OUTCOME 2

Prepare to determine velocity.

#### SPECIFIC OUTCOME 3

Determine and record velocity of air.

#### SPECIFIC OUTCOME 4

Perform post measurement activities and take appropriate action.



#### **UNIT STANDARD:**

31

# Dry material for analytical purposes.

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110178	Dry material for analytical purposes.						
SGB NAME			ABET BAN	ABET BAND PROVIDER NAME			
SGB Mining and Minerals		Undefined		X			
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION			
Manufacturing, Engineering and Technology		Fabrication and Extraction					
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 2	2		

# Specific Outcomes:

# SPECIFIC OUTCOME 1

Demonstrate knowledge relating to drying of material.

# SPECIFIC OUTCOME 2

Dry the material for analytical purposes.



#### **UNIT STANDARD:**

32

# Install a rack type cable support system

SAQA US ID	UNIT STAND	ARD TITLE	Windows (Processing	The second secon	
110138	Install a rack t	ype cable suppor	t system		7
SGB NAME	· · · · · · · · · · · · · · · · · · ·		ABET BANK	PROVIDER NAME	
SGB Mining a	nd Minerals	1 10 65	Undefined		
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION	4 tag 8
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	1
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 2	2

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the installation of a rack type cable support system.

# SPECIFIC OUTCOME 2

Prepare to install a rack type cable support system.

#### SPECIFIC OUTCOME 3

Install the rack type cable support system.

#### SPECIFIC OUTCOME 4

Perform reporting and housekeeping duties.



#### **UNIT STANDARD:**

33

#### Install underground workplace ventilation controls

SAQA US ID	UNIT STANDARD TITLE						
110127 I	Install underground workplace ventilation controls						
SGB NAME SGB Mining and Minerals			ABET BANK	PROVIDER NAME			
			Undefined				
FIELD DESCRI	PTION	o a d d	SUBFIELD	DESCRIPTION			
Manufacturing, Engineering and Technology			Fabrication and Extraction				
UNIT STANDAR	RD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-SGI	ВММ	Regular		Level 2	2		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the specified requirements regarding the installation of ventilation controls.

#### SPECIFIC OUTCOME 2

Prepare to install ventilation controls.

#### SPECIFIC OUTCOME 3

Install ventilation controls.

# SPECIFIC OUTCOME 4

Perform post installation activities.



#### **UNIT STANDARD:**

34

# Lift and move a load using a Tugger Winch

SAQA US ID	UNIT STANDA	UNIT STANDARD TITLE					
110163	Lift and move a load using a Tugger Winch						
SGB NAME SGB Mining and Minerals			ABET BAN	ABET BAND PROVIDER NAME			
			Undefined		s		
FIELD DESCRIPTION		SUBFIELD	DESCRIPTION	4			
Manufacturing, Engineering and Technology		Fabrication	and Extraction				
UNIT STANDARD CODE UNIT STANI		DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular			Level 2	4			

# Specific Outcomes:

#### SPECIFIC OUTCOME 1

Explain the factors critical to lifting and moving loads.

#### SPECIFIC OUTCOME 2

Prepare to Lift and Move the Load.

#### SPECIFIC OUTCOME 3

Lift and Move a Load.

#### SPECIFIC OUTCOME 4

Make the Load Available for Production Purposes.



#### **UNIT STANDARD:**

35

#### Load and stockpile outside materials

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110216	Load and stockpile outside materials						
SGB NAME SGB Mining and Minerals FIELD DESCRIPTION		ABET BANK	ABET BAND PROVIDER NAME				
		Undefined					
		SUBFIELL					
Manufacturing, Engineering and Technology		Fabrication and Extraction					
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 2	12		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate an understanding of the loading out and stockpiling of outside materials.

#### SPECIFIC OUTCOME 2

Prepare the stockpiling area.

#### SPECIFIC OUTCOME 3

Place material onto stockpile.

#### SPECIFIC OUTCOME 4

Monitor and control loading out and stockpiling operations.

#### SPECIFIC OUTCOME 5

Adhere to safety and health requirements.



#### **UNIT STANDARD:**

36

# Load and unload tankers with fine dry powdered material

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110175	Load and unio	Load and unload tankers with fine dry powdered material					
SGB NAME			ABET BANK	PROVIDER NAM	E		
SGB Mining and Minerals			Undefined				
FIELD DESC	RIPTION		SUBFIELD	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-SGB MM Regular			Level 2	6			

# **Specific Outcomes:**

# SPECIFIC OUTCOME 1

Demonstrate understanding of the loading and offloading of tankers.

# SPECIFIC OUTCOME 2

Prepare for loading and offloading.

# SPECIFIC OUTCOME 3

Load tankers.

## SPECIFIC OUTCOME 4

Offload tankers.



## **UNIT STANDARD:**

37

# Maintain steel ball load in a mill by means of a suspended magnetic loading system

SAQA US ID	UNIT STANDARD TITLE							
110171	Maintain steel	Maintain steel ball load in a mill by means of a suspended magnetic loading system						
SGB NAME			ABET BAN	D P	ROVIDER NAME			
SGB Mining and Minerals			Undefined					
FIELD DESCR	RIPTION		SUBFIELL	DES	CRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication					
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF	LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Leve	12	3		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the maintaining of steel ball load.

#### SPECIFIC OUTCOME 2

Prepare to load steel balls.

#### SPECIFIC OUTCOME 3

Load steel balls.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the steel ball loading operation.



## **UNIT STANDARD:**

# Make up a hydraulic hose with fittings

SAQA US ID	UNIT STANDA	UNIT STANDARD TITLE						
110150	Make up a hyd	Make up a hydraulic hose with fittings						
SGB NAME			ABET BANK	PR	OVIDER NAME			
SGB Mining and Minerals		Undefined						
FIELD DESCR	RIPTION		SUBFIELD	DESC	RIPTION	- 1		
Manufacturing	, Engineering a	nd Technology	Fabrication	and Ex	traction	M es e		
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF L	.EVEL	CREDITS		
MET-FBE-0-SGB MM Regular		-	Level 2	2	2			

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Explain the factors critical to making up a hydraulic hose with fittings.

#### SPECIFIC OUTCOME 2

Prepare to make up the hydraulic hose with fittings.

# SPECIFIC OUTCOME 3

Make up the hydraulic hose with fittings.

## SPECIFIC OUTCOME 4

Complete the process and prepare for operation and/or production.



#### **UNIT STANDARD:**

39

# Make up sulphurous acid in a metallurgical plant

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110189	Make up sulpi	lake up sulphurous acid in a metallurgical plant					
SGB NAME	Sales Sales		ABET BAN	D	PROVIDER NAME		
SGB Mining and Minerals			Undefined				
FIELD DESCR	RIPTION	. 6 0 547	SUBFIEL	D DE	SCRIPTION		
Manufacturing	, Engineering a	nd Technology			Extraction		
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NO	OF LEVEL	CREDITS	
MET-FBE-0-SGB MM Regular			Le	vel 2	4		

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the make up of sulphurous acid.

#### SPECIFIC OUTCOME 2

Prepare to make up sulphurous acid.

## SPECIFIC OUTCOME 3

Make up sulphurous acid.

# SPECIFIC OUTCOME 4

Complete the duties pertaining to the sulphurous acid make up process.



#### **UNIT STANDARD:**

40

## Make-up a sodium formate solution in a metallurgical plant

SAQA US ID	UNIT STAND	ARD TITLE			4 4
110170	Make-up a soo	dium formate solu	ution in a metal	lurgical plant	
SGB NAME	(3)/4	<del>- 1, 7-1-1-1</del>	ABET BANK	PROVIDER NAME	· · · · · · · · · · · · · · · · · · ·
SGB Mining a	nd Minerals		Undefined		
FIELD DESC	RIPTION		SUBFIELL	DESCRIPTION	
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 2	4

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the making up of a sodium formate solution.

#### SPECIFIC OUTCOME 2

Prepare to make-up a sodium formate solution.

## SPECIFIC OUTCOME 3

Make-up a sodium formate solution.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the making up of a sodium formate solution.



# **UNIT STANDARD:**

41

# Make-up sodium hydrosulphide solution in a metallurgical plant

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110147	Make-up sodiu	Make-up sodium hydrosulphide solution in a metallurgical plant						
SGB NAME	B: .		ABET BAN	PROVIDER NAME				
SGB Mining and Minerals			Undefined					
FIELD DESCI	RIPTION	**************************************	SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering ar	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STANL	OARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MAP	Regular		Level 2	4			

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the making up of a sodium hydrosulphide solution.

#### SPECIFIC OUTCOME 2

Prepare to make-up a sodium hydrosulphide solution.

#### SPECIFIC OUTCOME 3

Make-up a sodium hydrosulphide solution.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the making up of a sodium hydrosulphide solution.



# **UNIT STANDARD:**

# Operate a Pipe Crane

SAQA US ID	UNIT STAND	ARD TITLE					
110156	Operate a Pipe	Operate a Pipe Crane					
SGB NAME			ABET BANK	PROV	IDER NAME		
SGB Mining and Minerals		Undefined	600		ASA		
FIELD DESC	RIPTION	1 1 1 1 1 1 1	SUBFIELL	DESCRIP	TION		
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extra	ction	ಂ ಆೃಪ	
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEV	/EL	CREDITS	
MET-FBE-0-S	SGB MM	Regular		Level 2		5	

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Explain the factors critical to transport Persons.

## SPECIFIC OUTCOME 2

Prepare to transport Persons.

## SPECIFIC OUTCOME 3

Transport persons.

## SPECIFIC OUTCOME 4

Monitor transporting of persons.



# **UNIT STANDARD:**

43

# Operate a Working Platform

SAQA US ID	UNIT STANDA	RD TITLE	· ·		
110151	Operate a Wor	king Platform	1,00		*
SGB NAME		e sa premiorale de	ABET BANK	PROVIDER NAME	
SGB Mining ar	nd Minerals	toward and the second	Undefined		4 .
FIELD DESCR	RIPTION		SUBFIELD	DESCRIPTION	
Manufacturing	, Engineering an	d Technology	Fabrication	and Extraction	
UNIT STANDA	ARD CODE	UNIT STAND	ARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular	an a section	Level 2	5

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the factors critical to the operation of a working platform.

# SPECIFIC OUTCOME 2

Prepare to operate a Working Platform.

## SPECIFIC OUTCOME 3

Operate a Working Platform.

#### SPECIFIC OUTCOME 4

Monitor a Working Platform.



## **UNIT STANDARD:**

# Package dry mineral products into bags

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110135	Package dry n	Package dry mineral products into bags						
SGB NAME	-		ABET BANK	PROVIDER NAMI	=			
SGB Mining and Minerals			Undefined					
FIELD DESC	RIPTION	1 127.2	SUBFIELD	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	24 1117			
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-SGB MAP Regular			Level 2	7				

# **Specific Outcomes:**

# SPECIFIC OUTCOME 1

Demonstrate an understanding of packing of mineral products.

## SPECIFIC OUTCOME 2

Plan and prepare for product packaging.

# SPECIFIC OUTCOME 3

Pack product into bags.

# SPECIFIC OUTCOME 4

Adhere to safety and health requirements.



## **UNIT STANDARD:**

46

## Re-cloth a belt filter

SAQA US ID	UNIT STANDARD TITLE						
110114	Re-cloth a belt	Re-cloth a belt filter					
SGB NAME			ABET BAN	D	PROVIDER NAME		
SGB Mining and Minerals			Undefined				
FIELD DESCR	RIPTION		SUBFIEL	D DE	SCRIPTION		
Manufacturing,	Engineering ar	nd Technology	Fabrication	n and	Extraction		
UNIT STANDA	RD CODE	UNIT STANI	DARD TYPE	NO	QF LEVEL	CREDITS	
MET-FBE-0-SGB MM Regular			Le	vel 2	7		

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the replacement of a filter cloth.

## SPECIFIC OUTCOME 2

Prepare to replace a filter cloth.

# SPECIFIC OUTCOME 3

Replace a filter cloth.

## SPECIFIC OUTCOME 4

Complete the duties pertaining to the replacement of a filter cloth.



## **UNIT STANDARD:**

45

# Produce briquettes from fine material

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110208	Produce briqu	ettes from fine m	aterial					
SGB NAME		12 A	ABET BANK	PROVIDER NAME				
SGB Mining and Minerals		Undefined						
FIELD DESC	RIPTION		SUBFIELL	DESCRIPTION				
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 2	5			

# Specific Outcomes:

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the briquetting process.

## SPECIFIC OUTCOME 2

Prepare to produce briquettes.

## SPECIFIC OUTCOME 3

Produce briquettes.

# SPECIFIC OUTCOME 4

Complete the duties pertaining to the briquetting process.



## **UNIT STANDARD:**

47

## Re-cloth a drum filter

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110155	Re-cloth a dru	Re-cloth a drum filter						
SGB NAME		/8 BI +	ABET BAN	PROVIDER NAME				
SGB Mining a	GGB Mining and Minerals							
FIELD DESC	RIPTION		SUBFIELI	DESCRIPTION				
Manufacturin	g, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-	SGB MM	Regular		Level 2	7			

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the replacement of a filter cloth.

## SPECIFIC OUTCOME 2

Prepare to replace a filter cloth.

## SPECIFIC OUTCOME 3

Replace a filter cloth.

## SPECIFIC OUTCOME 4

Complete the duties pertaining to the replacement of a filter cloth.



## UNIT STANDARD:

48

## Re-cloth a filter press

SAQA US ID	UNIT STANDAR	D TITLE			
110160	Re-cloth a filter p	ress	4. 4. 3.		
SGB NAME		V 44 190 19	ABET BANK	PROVIDER NAME	U. a. A. The
SGB Mining a	nd Minerals		Undefined		1 1 1
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION	
Manufacturing	, Engineering and	Technology	Fabrication	and Extraction	
UNIT STAND	ARD CODE	UNIT STAND	OARD TYPE	NQF LEVEL	CREDITS

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the replacement of a filter cloth.

## SPECIFIC OUTCOME 2

Prepare to replace a filter cloth.

## SPECIFIC OUTCOME 3

Replace a filter cloth.

# SPECIFIC OUTCOME 4

Complete the duties pertaining to the replacement of a filter cloth.



#### **UNIT STANDARD:**

49

Recover organic solvent from an aqueous metal compound solution by means of a distillation process

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110185	Recover organic solvent from an aqueous metal compound solution by means of a distillation process							
SGB NAME		100	ABET BAN	PROVIDER NA	AME	13.3		
SGB Mining and Minerals					* * * * * *			
FIELD DESCI	RIPTION		SUBFIELL	DESCRIPTION	7a 20a pat			
Manufacturing	, Engineering a	nd Technology		and Extraction				
UNIT STANDARD CODE UNIT STAND		OARD TYPE	NQF LEVEL	7 47 + 4 + 4	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 2		3		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the distillation of organic solvent.

## SPECIFIC OUTCOME 2

Prepare to distil organic solvent.

## SPECIFIC OUTCOME 3

Distil organic solvent.

# SPECIFIC OUTCOME 4

Complete the duties pertaining to the distillation of organic solvent.



## **UNIT STANDARD:**

50

#### Recover platinum group metals from waste organic solvent

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110126	Recover platin	Recover platinum group metals from waste organic solvent						
SGB NAME			ABET BAN	PROVIDER NAME				
SGB Mining and Minerals		inerals Undefined		- V-50.7	2 5 2 6			
FIELD DESC	RIPTION		SUBFIELI	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDARD CODE UNIT STAND		OARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-SGB MAP Regular			Level 2	3				

## Specific Outcomes:

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the recovery of Platinum group metals.

#### SPECIFIC OUTCOME 2

Prepare to recover Platinum group metals.

# SPECIFIC OUTCOME 3

Recover Platinum group metals.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the recovery of Platinum group metals.



## **UNIT STANDARD:**

51

## Remove and install cutters on a drill head

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110152	Remove and install cutters on a drill head							
SGB NAME			ABET BAND	PROVIDER NAME				
SGB Mining and Minerals		Undefined						
FIELD DESCR	RIPTION		SUBFIELD	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular			Level 2	5				

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Explain the factors critical to remove and install cutters on a drill head.

## SPECIFIC OUTCOME 2

Prepare to remove and install cutters on a drill head.

# SPECIFIC OUTCOME 3

Remove and install cutters on a drill head.

## SPECIFIC OUTCOME 4

Monitor the removal and installation of cutters on a drill head.



#### **UNIT STANDARD:**

52

# Remove ferromagnetic material from a belt conveyor by means of an over belt magnet

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110117	Remove ferror	Remove ferromagnetic material from a belt conveyor by means of an over belt magnet						
SGB NAME			ABET BAN	PROVIDER NAME	<b>E</b>			
SGB Mining and Minerals		Undefined	900 m Will. 1994 m					
FIELD DESCI	RIPTION	****	SUBFIELI	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 2	2			

# Specific Outcomes:

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the removal process.

#### SPECIFIC OUTCOME 2

Prepare to remove material.

#### SPECIFIC OUTCOME 3

Remove material.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the removal process.



#### **UNIT STANDARD:**

53

# Remove impurities in diamond gemstones through boiling

SAQA US ID	UNIT STANDARD TITLE						
110206	Remove impurities in diamond gemstones through boiling						
SGB NAME			ABET BAN	D	PROVIDER NAME		
SGB Mining and Minerals		Undefined					
FIELD DESCR	RIPTION		SUBFIEL	) DE	SCRIPTION		
Manufacturing	, Engineering a	nd Technology			Extraction		
UNIT STANDA	RD CODE	UNIT STANL	OARD TYPE	NG	F LEVEL	CREDITS	
MET-FBE-0-S	3B MM	Regular		Le	vel 2	4	

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Identify the equipment, tools and chemicals used to boil diamond gemstones.

## SPECIFIC OUTCOME 2

Prepare and boil diamond gemstones.

## SPECIFIC OUTCOME 3

Conduct post-boiling cleaning, checking and security activities.



# **UNIT STANDARD:**

54

## Remove impurities in diamond gemstones through pressure boiling

SAQA US ID	UNIT STANDARD TITLE							
110203	Remove impu	Remove impurities in diamond gemstones through pressure boiling						
SGB NAME			ABET BANK	PROVIDER NAME				
SGB Mining and Minerals		erals Unde						
FIELD DESCI	RIPTION		SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM Regular			Level 2	5			

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Identify the equipment, tools and chemicals used to boil diamond gemstones under pressure.

# SPECIFIC OUTCOME 2

Prepare and pressure boil diamond gemstones.

# SPECIFIC OUTCOME 3

Conduct post- pressure-boiling cleaning, checking and security activities.



## **UNIT STANDARD:**

55

# Remove impurities in nickel briquettes by mean of a reduction process

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110164	Remove impu	Remove impurities in nickel briquettes by mean of a reduction process						
SGB NAME			ABET BAND PROVIDER NAME		=			
SGB Mining and Minerals			Undefined					
FIELD DESCI	RIPTION		SUBFIEL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology		and Extraction				
UNIT STAND	ARD CODE	UNIT STANI	OARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 2	4			

## Specific Outcomes:

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the reduction process.

## SPECIFIC OUTCOME 2

Prepare to reduce impurities.

# SPECIFIC OUTCOME 3

Reduce impurities.

## SPECIFIC OUTCOME 4

Complete the duties pertaining to the reduction process.



## **UNIT STANDARD:**

Remove unwanted chemicals from platinum rich solution by means of a dehydroxilation process (boiling)

SAQA US ID	UNIT STANDA	UNIT STANDARD TITLE						
110188	Remove unwanted chemicals from platinum rich solution by means of a dehydroxilation process (boiling)							
SGB NAME		+,	ABET BAN	PROVIDER NAME				
SGB Mining and Minerals		Undefined						
FIELD DESCI	RIPTION	-	SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering and	d Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular		-	Level 2	3				

## Specific Outcomes:

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the dehydroxilation process.

## SPECIFIC OUTCOME 2

Prepare to dehydroxilate platinum rich solution.

#### SPECIFIC OUTCOME 3

Dehydroxilate platinum rich solution.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the dehydroxilation process.



## UNIT STANDARD:

57

# Repair the exhaust system of an internal combustion engine

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE							
110142	Repair the exhaust system of an internal combustion engine								
SGB NAME	d 4 i		ABET BANK	PROVIDER NAM	E				
SGB Mining and Minerals		Undefined		# # # # # # # # # # # # # # # # # # #					
FIELD DESCR	RIPTION		SUBFIELL	DESCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-S	GB MM	Regular		Level 2	2				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the factors critical to repairing an exhaust system.

#### SPECIFIC OUTCOME 2

Prepare to repair the exhaust system.

#### SPECIFIC OUTCOME 3

Repair the exhaust system.

## SPECIFIC OUTCOME 4

Test the exhaust system, and prepare for operation and/or production.



## **UNIT STANDARD:**

58

#### Replace cartridge filter elements in a metallurgical plant

SAQA US ID	UNIT STANDA	UNIT STANDARD TITLE				
110166 Replace cartridge filter elements in a metallurgical plant						
SGB NAME			ABET BAN	PROVIDER NAM	E	
SGB Mining and Minerals		Undefined				
FIELD DESCI	RIPTION		SUBFIELI	DESCRIPTION		
Manufacturing	, Engineering and	d Technology	Fabrication	and Extraction		
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS	
MET-FBE-0-S	GB MM	Regular		Level 2	2	

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the replacement of cartridge filter elements.

#### SPECIFIC OUTCOME 2

Prepare to replace cartridge filter elements.

#### SPECIFIC OUTCOME 3

Replace cartridge filter elements.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the replacement of cartridge filter elements.



## **UNIT STANDARD:**

59

# Replace the pins and bushes on mining equipment

SAQA US ID	UNIT STANDARD TITLE						
110176	Replace the pins and bushes on mining equipment						
SGB NAME			ABET BAN	PROVIDER NAME			
SGB Mining and Minerals		Undefined		7 7 7			
FIELD DESCR	IPTION	91	SUBFIELD	DESCRIPTION			
Manufacturing,	Engineering an	d Technology	Fabrication	and Extraction			
UNIT STANDA	RD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-SC	SB MM	Regular		Level 2	3		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the factors critical to replacing the pins and bushes.

#### SPECIFIC OUTCOME 2

Prepare to replace the pins and bushes.

#### SPECIFIC OUTCOME 3

Replace the pins and bushes.

#### SPECIFIC OUTCOME 4

Test the unit and prepare for operation and/or production.



## **UNIT STANDARD:**

60

## Sample a vertical converter unit by means of a dip bar

SAQA US ID	UNIT STAND	INIT STANDARD TITLE						
110137	Sample a vert	ical converter uni	t by means of a	dip bar				
SGB NAME			ABET BAN	PROVIDER NAME				
SGB Mining and Minerals			Undefined	7				
FIELD DESC	RIPTION		SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular	-	Level 2	3			

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the sampling of a molten liquid bath.

#### SPECIFIC OUTCOME 2

Prepare to sample a molten liquid bath.

## SPECIFIC OUTCOME 3

Sample a molten liquid bath.

## SPECIFIC OUTCOME 4

Complete the duties pertaining to the process of sampling a molten liquid bath.



## **UNIT STANDARD:**

61

## Separate liquid from solids by means of a high-rate thickener

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
10581	Separate liqui	Separate liquid from solids by means of a high-rate thickener						
SGB NAME			ABET BAN	D	PROVIDER NAME			
SGB Mining and Minerals			Undefined			· · · · · · · · · · · · · · · · · · ·		
FIELD DESC	RIPTION		SUBFIELL	DE:	SCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and	Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQ	F LEVEL	CREDITS		
MET-FBE-0-SGB MM Regular			12/	Lev	vel 2	3		

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the thickening process.

## SPECIFIC OUTCOME 2

Prepare to separate liquid from solids.

#### SPECIFIC OUTCOME 3

Separate liquid from solids.

## SPECIFIC OUTCOME 4

Complete the duties pertaining to the thickening process.



#### **UNIT STANDARD:**

62

# Separate liquid from solids by means of a pan-filter

SAQA US ID	UNIT STAND	ARD TITLE			
110184	Separate liqui	d from solids by r	neans of a par	-filter	
SGB NAME			ABET BAN	PROVIDER NAME	
SGB Mining a	nd Minerals		Undefined		n + 1 + 1
FIELD DESCI	RIPTION		SUBFIELI	DESCRIPTION	#0.182 # # # # # # # # # # # # # # # # # # #
Manufacturing	, Engineering a	nd Technology	Fabrication	n and Extraction	
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 2	6,

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the separation process.

## SPECIFIC OUTCOME 2

Prepare to separate material.

## SPECIFIC OUTCOME 3

Separate material.

## SPECIFIC OUTCOME 4

Complete the duties pertaining to the separation process.



#### **UNIT STANDARD:**

63

# Separate material by means of a centrifugal gravity concentration process

SAQA US ID	UNIT STANDARD TITLE							
110195	Separate mate	Separate material by means of a centrifugal gravity concentration process						
SGB NAME			ABET BAN		PROVIDER NAME	1		
SGB Mining and Minerals			Undefined					
FIELD DESCR	RIPTION		SUBFIELD	D DE	SCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	n and	Extraction			
UNIT STANDA	RD CODE	UNIT STANL	DARD TYPE	NG	F LEVEL	CREDITS		
MET-FBE-0-SGB MM Regular			Le	vel 2	5			

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the centrifugal concentration process.

## SPECIFIC OUTCOME 2

Prepare to separate material.

# SPECIFIC OUTCOME 3

Separate material.

# SPECIFIC OUTCOME 4

Complete the duties pertaining to the centrifugal concentration process.



# UNIT STANDARD:

# Separate solids from a liquid by means of filtration

SAQA US ID	UNIT STANDARD	TITLE		19. T	
110169	Separate solids from	n a liquid by	means of filtra	ation	
SGB NAME	1.11		ABET BANK	PROVIDER NA	ME
SGB Mining a	nd Minerals	10.7	Undefined		edangi kacaya sa bahini
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION	
Manufacturing	, Engineering and Te	chnology	Fabrication	and Extraction	
UNIT STAND	ARD CODE	INIT STAN	DARD TYPE	NQF LEVEL	CREDITS
MET-ENG-0-S	GB MM R	Regular		Level 2	3

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to filtration.

## SPECIFIC OUTCOME 2

Filter the solutions.



# UNIT STANDARD:

65

# Store chemicals in the laboratory.

SAQA US ID	UNIT STAND	ARD TITLE			
110174	Store chemica	als in the laborato	ry.		
SGB NAME	- A.7		ABET BANK	PROVIDER NAME	
SGB Mining ar	nd Minerals		Undefined		12 4 <sub>22</sub> 4V 1, 1
FIELD DESCR	RIPTION		SUBFIELD	DESCRIPTION	
Manufacturing	Engineering a	nd Technology		and Extraction	
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 2	2

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Demonstrate knowledge relating to storage of chemicals.

## SPECIFIC OUTCOME 2

Store chemicals in the laboratory.



# **UNIT STANDARD:**

66

## Strip copper product from stainless steel cathodes in an ISA process

	Maria de Caración	The second secon	22-3 AV CONSTRUCTION - V		and the contract of the contra
SAQA US ID	UNIT STAND	ARD TITLE	2 2 27		
110168	Strip copper p	roduct from stain	ess steel catho	odes in an ISA process	
SGB NAME			ABET BANK	PROVIDER NAME	
SGB Mining ar	nd Minerals	5	Undefined		
FIELD DESCR	RIPTION	erest some t	SUBFIELD	DESCRIPTION	
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	
UNIT STANDA	ARD CODE	UNIT STANL	OARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular	7.1	Level 2	4

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the stripping of cathodes.

## SPECIFIC OUTCOME 2

Prepare to strip cathodes.

#### SPECIFIC OUTCOME 3

Strip cathodes.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the stripping of cathodes.



## **UNIT STANDARD:**

67

# **Support Drill String operations**

SAQA US ID	UNIT STAND	ARD TITLE			
110196	Support Drill S	String operations			
SGB NAME			ABET BANK	PROVIDER NAME	
SGB Mining ar	nd Minerals		Undefined		4.5
FIELD DESCR	RIPTION	t to the second	SUBFIELD	DESCRIPTION	
Manufacturing	Engineering a	nd Technology	Fabrication	and Extraction	
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	3B MM	Regular		Level 2	8

# Specific Outcomes:

#### SPECIFIC OUTCOME 1

Explain the factors critical to the support of drill string operations.

#### SPECIFIC OUTCOME 2

Prepare for the support of drill string operations.

#### SPECIFIC OUTCOME 3

Support with drill string operations.

#### SPECIFIC OUTCOME 4

Monitor the support of drill string operations.



# **UNIT STANDARD:**

68

# Transport Persons using a Man-Rider Winch

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110159	Transport Per	Transport Persons using a Man-Rider Winch						
SGB NAME		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ABET BAN	PROVIDER NAME				
SGB Mining and Minerals			Undefined	- 10 - 12 - 12 - 12 - 12 - 12 - 12 - 12				
FIELD DESC	RIPTION		SUBFIEL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL		CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 2	Y-1 .	5		

# Specific Outcomes:

## SPECIFIC OUTCOME 1

Explain the factors critical to transport Persons.

#### SPECIFIC OUTCOME 2

Prepare to transport Persons.

## SPECIFIC OUTCOME 3

Transport persons.

#### SPECIFIC OUTCOME 4

Monitor transporting of persons.



## **UNIT STANDARD:**

69

# Use a microscope to examine diamond gemstones

SAQA US ID	UNIT STANDARD TITLE							
110199	Use a microso	Use a microscope to examine diamond gemstones						
SGB NAME	· · · · · · · · · · · · · · · · · · ·		ABET BANK	PROVIDER NAME				
SGB Mining ar	nd Minerals		Undefined					
FIELD DESCR	RIPTION	//	SUBFIELD	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	***			
UNIT STANDA	ARD CODE	UNIT STAND	ARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 2	1			

# **Specific Outcomes:**

## SPECIFIC OUTCOME 1

Identify the microscopes used to examine diamond gemstones and describe their application.

#### SPECIFIC OUTCOME 2

Describe the features of diamond gemstones using a microscope.

#### SPECIFIC OUTCOME 3

Conduct post-examination reconciliation, checking and security activities.



## **UNIT STANDARD:**

70

## Achieve excavation stability in the presence of geological discontinuities and brows

SAQA US ID	UNIT STAND	ARD TITLE					
110187	Achieve excavation stability in the presence of geological discontinuities and brows						
SGB NAME	, if v		ABET BAN	D	PROVIDER NAME		
SGB Mining ar	nd Minerals	Undefined					
FIELD DESCR	RIPTION		SUBFIELL	) DE	SCRIPTION		
Manufacturing	, Engineering a	nd Technology	Fabrication	and	d Extraction		
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NO	QF LEVEL	CREDITS	
MET-FBE-0-SGB MM Regular		- + ·	Level 3		4		

## **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate ability to identify geological discontinuities and brows.

#### SPECIFIC OUTCOME 2

Demonstrate knowledge of achieving stability in the presence of geological discontinuities.

#### SPECIFIC OUTCOME 3

Prepare for visual and physical examination to identify geological discontinuities.

## SPECIFIC OUTCOME 4

Conduct a visual examination to identify geological discontinuities and brows.

## SPECIFIC OUTCOME 5

Achieve excavation stability in the presence of geological discontinuities and brows.

#### SPECIFIC OUTCOME 6

Evaluate, report and record the support of geological discontinuities and brows.



#### **UNIT STANDARD:**

71

## Collect, store and issue explosives from a surface magazine

SAQA US ID	UNIT STANDA	RD TITLE			88	9
110218	Collect, store a	ind issue explosi	ives from a sur	face magazine		
SGB NAME		V-0 0.22	ABET BANK	PROVIDER NAI	ИE	***************************************
SGB Mining a	nd Minerals		Undefined			7,1
FIELD DESCI	RIPTION	11	SUBFIELD	DESCRIPTION		(e)
Manufacturing	, Engineering ar	nd Technology	Fabrication	and Extraction	5.0	h
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	4 7 4	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 3	i in	10

## **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate understanding of explosives handling, transport and storage and relevant legislation.

#### SPECIFIC OUTCOME 2

Identify explosives and accessories.

#### SPECIFIC OUTCOME 3

Transport, store and issue explosives and accessories.

#### SPECIFIC OUTCOME 4

Apply security measures for explosives magazines.

#### SPECIFIC OUTCOME 5

Adhere to occupational safety and health requirements.



### **UNIT STANDARD:**

72

### Conduct blasting operations in an underground coal mine

SAQA US ID	UNIT STANDARD TITLE						
110210	Conduct blasting o	Conduct blasting operations in an underground coal mine					
SGB NAME		they be a second	ABET BANK	PROVIDER NAME			
SGB Mining and Minerals		Undefined					
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION			
Manufacturing	, Engineering and To	echnology		and Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 3	11		

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Prepare to conduct blasting operations.

#### SPECIFIC OUTCOME 2

Conduct blasting operations.

### SPECIFIC OUTCOME 3

Demonstrate teamwork.



#### UNIT STANDARD:

73

### Control operations in a blasting section in an underground coal mine

SAQA US ID	UNIT STANDARD TITLE					B to Street	
110125	Control operat	Control operations in a blasting section in an underground coal mine					
SGB NAME		e 1 1	ABET BANK	PROVIDER NAM	E		
SGB Mining and Minerals		Undefined		17 E 1 T			
FIELD DESCR	RIPTION		SUBFIELD	DESCRIPTION	7	1.75	
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction		-1.5 -1.5	
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL		CREDITS	
MET-FBE-0-SGB MM Regular		1 55000	Level 3	4	15		

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Prepare to control operations in a blasting section.

### SPECIFIC OUTCOME 2

Control operations in a blasting section.

### SPECIFIC OUTCOME 3

Demonstrate teamwork.



#### **UNIT STANDARD:**

74

## Control slag magnetite content in a vertical converter

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110120	Control slag m	Control slag magnetite content in a vertical converter					
SGB NAME			ABET BAN	D PROVIDER NAME			
SGB Mining and Minerals			Undefined				
FIELD DESCI	RIPTION		SUBFIELI	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology		and Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular	· · · · · · · · · · · · · · · · · · ·	Level 3	7		

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the controlling of magnetite.

## SPECIFIC OUTCOME 2

Prepare to control magnetite.

### SPECIFIC OUTCOME 3

Control magnetite.

### SPECIFIC OUTCOME 4

Complete the duties pertaining to the process of controlling magnetite.

#### UNIT STANDARD:

75

### Create a slag bath in a vertical converter unit

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110141	Create a slag	Create a slag bath in a vertical converter unit						
SGB NAME	1000		ABET BANK	PROVIDER NAME		-		
SGB Mining and Minerals		Undefined			- W. 170 - C			
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION		*,1,1,1		
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	100	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 3	3 %	6.		

#### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the creation of a slag bath.

#### SPECIFIC OUTCOME 2

Prepare to create the slag bath.

#### SPECIFIC OUTCOME 3

Create the slag bath.

### SPECIFIC OUTCOME 4

Complete the duties pertaining to the process of creating a slag bath.



#### UNIT STANDARD:

76

# Demonstrate a working knowledge of the Diamonds Act and understanding of the Minerals Act in relation to diamonds

SAQA US ID	UNIT STANDARD TITLE						
110212	Demonstrate a working knowledge of the Diamonds Act and understanding of the Minerals Act in relation to diamonds						
SGB NAME			ABET BAN	ABET BAND PROVIDER NAME			
SGB Mining and Minerals		Undefined					
FIELD DESCR	RIPTION	ц = 1	SUBFIELD	DESCRIPTION			
Manufacturing	, Engineering ar	nd Technology	Fabrication	and Extraction			
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 3	8		

#### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the main features of the Diamonds Act.

#### SPECIFIC OUTCOME 2

Explain the requirements of the Diamonds Act regarding country of origin of diamonds.

#### SPECIFIC OUTCOME 3

Explain the requirements of the Diamonds Act regarding processing of diamond gemstones.

#### SPECIFIC OUTCOME 4

Explain the requirements of the Diamonds Act regarding trade in diamonds.

### SPECIFIC OUTCOME 5

Describe the main features of the Minerals Act.

#### SPECIFIC OUTCOME 6

Explain the requirements of the Minerals Act regarding diamonds.



#### **UNIT STANDARD:**

77

# Demonstrate an understanding of the functions of electrical and mechanical components on a winder

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110172	Demonstrate a winder	Demonstrate an understanding of the functions of electrical and mechanical components on a winder					
SGB NAME			ABET BAN	PROVIDER NAM	1E		
SGB Mining and Minerals		Undefined					
FIELD DESCI	RIPTION		SUBFIELI	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	MM Regular		Level 3	9		

### Specific Outcomes:

#### SPECIFIC OUTCOME 1

Describe the functions of electrical components on a winder.

#### SPECIFIC OUTCOME 2

Explain the functions of mechanical components on a winder.



#### UNIT STANDARD:

#### Demonstrate understanding processes and obligations to trade in diamonds

SAQA US ID	UNIT STANDARD TITLE						
110214	Demonstrate u	Demonstrate understanding processes and obligations to trade in diamonds					
SGB NAME			ABET BANK	2	PROVIDER NAME		
SGB Mining and Minerals		Undefined	. 1				
FIELD DESCI	RIPTION		SUBFIELL	) DE	SCRIPTION		
Manufacturing	, Engineering a	nd Technology	Fabrication	n and	d Extraction		
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NO	QF LEVEL	CREDITS	
MET-FBE-0-S	GB MM	Regular		Le	vel 3	6	

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Identify the diamond exchanges and describe their nature.

#### SPECIFIC OUTCOME 2

Explain the tendering processes for diamonds and the obligations on the parties involved.

#### SPECIFIC OUTCOME 3

Explain the processes for collection of diamond gemstones.

#### SPECIFIC OUTCOME 4

Explain the requirements regarding customs, excise and taxation relating to trade in diamonds.



### **UNIT STANDARD:**

79

# Determine the concentration of an analyte by means of an ion-selective electrode

SAQA US ID	UNIT STAND	ARD TITLE						
110213	Determine the	Determine the concentration of an analyte by means of an ion-selective electrode						
SGB NAME			ABET BANK					
SGB Mining and Minerals			Undefined					
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	SGB MM Regular			Level 3	2			
		The second secon	The state of the s	ENGINEER CONTRACTOR CO				

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to ion-selective electrode determinations.

#### SPECIFIC OUTCOME 2

Determine the concentration of an analyte.



#### **UNIT STANDARD:**

80

## Determine the physical characteristics of coal related to hardness

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110193	Determine the	physical charact	eristics of coal	elated to hardness				
SGB NAME			ABET BAND	PROVIDER NAME				
SGB Mining and Minerals		Undefined	N 10 10 10 10 10 10 10 10 10 10 10 10 10	1 . 542				
FIELD DESCI	RIPTION .		SUBFIELD DESCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 3	5			

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the physical properties and the rank of coal.

#### SPECIFIC OUTCOME 2

Determine the Hardgrove index of coal.

### SPECIFIC OUTCOME 3

Determine the Abrasiveness index.



### UNIT STANDARD:

81

#### Determine the redox potential of a liquid by means of a potentiometer

SAQA US ID	UNIT STANDARD TITLE					
110181	Determine the	redox potential of	f a liquid by me	eans of a potentiometer		
SGB NAME			ABET BANK	PROVIDER NAME		
SGB Mining and Minerals			Undefined			
FIELD DESCR	PIPTION	74.5	SUBFIELD	DESCRIPTION		
Manufacturing,	Engineering an	d Technology	Fabrication	and Extraction		
UNIT STANDA	RD CODE	UNIT STAND	ARD TYPE	NQF LEVEL		CREDITS
MET-FBE-0-SC	3B MM	Regular		Level 3		2

### Specific Outcomes:

### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to determining redox potential.

#### SPECIFIC OUTCOME 2

Determine the redox potential of the liquid.



#### **UNIT STANDARD:**

82

### Explain the requirements to issue a licence to mine, deal and/or process diamonds

SAQA US ID	UNIT STANDARD TITLE						
110220	Explain the rea	Explain the requirements to issue a licence to mine, deal and/or process diamonds					
SGB NAME		W 17 Jan 19 1	ABET BANK	PROVIDER NAME			
SGB Mining and Minerals			Undefined				
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 3	8		

### Specific Outcomes:

#### SPECIFIC OUTCOME 1

Identify and describe the legislation governing the licensing of activities relating to diamonds.

#### SPECIFIC OUTCOME 2

Explain the requirements and obligations for obtaining the various diamond licenses.

#### SPECIFIC OUTCOME 3

Explain the powers to control the currency of licenses.



#### **UNIT STANDARD:**

83

# Follow basic health and safety practices pertaining to winding operations

SAQA US ID	UNIT STAND	ARD TITLE		1 1 1 1 1 1 1 1 1		11.
110179	Follow basic h	ealth and safety	practices perta	ning to winding operations		
SGB NAME			ABET BANK	PROVIDER NAME		
SGB Mining and Minerals		Undefined				
FIELD DESCR	RIPTION		SUBFIELD	DESCRIPTION		
Manufacturing	, Engineering ar	nd Technology	Fabrication	and Extraction		0 1
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDIT	S
MET-FBE-0-S	GB MM	Regular	·	Level 3	5	
		The second secon	The second secon			

### Specific Outcomes:

#### SPECIFIC OUTCOME 1

Describe specified requirements regarding the actions to be taken in the event of operational.

#### SPECIFIC OUTCOME 2

Describe specified requirements regarding the action to be taken in the event of emergencies.

#### SPECIFIC OUTCOME 3

Explain the requirements regarding health and safety practices in the workplace.



#### **UNIT STANDARD:**

84

#### Grade polished diamond gemstones

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE			
110190	Grade polished diamond gemstones				Tarre of any
SGB NAME			ABET BAN	PROVIDER NAME	
SGB Mining and Minerals		Undefined			
FIELD DESC	RIPTION		SUBFIEL	DESCRIPTION	
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular	·	Level 3	34

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Identify the systems, equipment and tools used to grade polished diamond gemstones.

#### SPECIFIC OUTCOME 2

Assess the proportions of polished gemstones.

#### SPECIFIC OUTCOME 3

Plot characteristics of polished diamond gemstones.

#### SPECIFIC OUTCOME 4

Differentiate colour, purity, clarity and finish of polished diamond gemstones.

### SPECIFIC OUTCOME 5

Conduct post grading activities.



#### **UNIT STANDARD:**

85

#### Improve impurities in diamond gemstones through laser drilling

SAQA US ID	UNIT STAND	JNIT STANDARD TITLE						
110225	Improve impurities in diamond gemstones through laser drilling							
SGB NAME			ABET BAN	PROVIDER N	IAME			
SGB Mining and Minerals		Undefined						
FIELD DESCR	RIPTION		SUBFIELI	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 3	6			

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Identify the equipment and tools used to drill diamond gemstones by means of laser.

#### SPECIFIC OUTCOME 2

Demonstrate knowledge of the structure of diamond gemstones and the implications of drilling them.

#### SPECIFIC OUTCOME 3

Prepare and drill diamond gemstones by means of laser.

#### SPECIFIC OUTCOME 4

Conduct post-laser drilling cleaning, checking and security activities.



### **UNIT STANDARD:**

86

### Inscribe polished diamond gemstones by laser

SAQA US ID	UNIT STANDARD TITLE							
110227	Inscribe polished diamond gemstones by laser							
SGB NAME			ABET BAN	D F	PROVIDER NAME			
SGB Mining and Minerals		Undefined						
FIELD DESCI	RIPTION		SUBFIELD	DES	CRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and I	Extraction			
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF	LEVEL	CREDITS		
MET-FBE-0-SGB MM Regular			Leve	el 3	22			

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Describe the methodology of laser inscription on polished diamond gemstones.

#### SPECIFIC OUTCOME 2

Prepare to carry out laser inscription on diamond gemstones.

#### SPECIFIC OUTCOME 3

Perform laser inscription on diamond gemstones.

#### SPECIFIC OUTCOME 4

Conduct post-laser-inscription activities.



#### **UNIT STANDARD:**

87

### Operate a direct current winder

SAQA US ID	UNIT STAND	ARD TITLE						
110165	Operate a direct current winder							
SGB NAME SGB Mining and Minerals		ABET BANK	PROVIDER NAME	Ē				
		Undefined						
FIELD DESCI	RIPTION		SUBFIELL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular		Level 3	15			

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain specified requirements pertaining to the operation of a direct current winder.

#### SPECIFIC OUTCOME 2

Prepare to operate a direct current winder.

### SPECIFIC OUTCOME 3

Operate a direct current winder.



### **UNIT STANDARD:**

88

#### Operate a friction driven winder

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE							
110144	Operate a frict	Operate a friction driven winder							
SGB NAME			ABET BAN	PROVIDER NAME					
SGB Mining and Minerals		Undefined	Undefined						
FIELD DESC	RIPTION		SUBFIELL	DESCRIPTION					
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-S	SGB MM	Regular		Level 3	15				

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain specified requirements pertaining to the operation of a friction-driven winder.

#### SPECIFIC OUTCOME 2

Prepare to operate a friction-driven winder.

#### SPECIFIC OUTCOME 3

Operate a friction-driven winder.



### UNIT STANDARD:

89

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#### Operate an alternating current winder

SAQA US ID	UNIT STANDA	RD TITLE			1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
110154	Operate an alte	rnating current v	vinder	ry Ty	+ .	* ·
SGB NAME	3.42		ABET BANK	PROVIDER NAME		
SGB Mining a	nd Minerals	*** *** * * * * *	Undefined			3 427,
FIELD DESCH	RIPTION		SUBFIELL	DESCRIPTION		
Manufacturing	, Engineering an	d Technology	Fabrication	and Extraction		
UNIT STANDA	ARD CODE	UNIT STANE	ARD TYPE	NQF LEVEL	C	REDITS
MET-FBE-0-S	GB MM	Regular	1	Level 3	15	

#### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain specified requirements pertaining to the operation of an alternating current winder.

#### SPECIFIC OUTCOME 2

Prepare to operate an alternating current winder.

### SPECIFIC OUTCOME 3

Operate an alternating current winder.



#### **UNIT STANDARD:**

90

# Palletise bagged dry mineral products

SAQA US ID UNIT STAND	ARD TITLE	W. A		
110146 Palletise bagg	ed dry mineral pr	oducts		
SGB NAME	The state of the s	ABET BANK	PROVIDER NAME	
SGB Mining and Minerals		Undefined		
FIELD DESCRIPTION	15 1,15,40	SUBFIELD	DESCRIPTION	
Manufacturing, Engineering a	nd Technology	Fabrication	and Extraction	
UNIT STANDARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-SGB MM Regular			Level 3	12

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate an understanding of the palletising of bagged dry mineral products.

#### SPECIFIC OUTCOME 2

Plan and prepare for palletising.

### SPECIFIC OUTCOME 3

Palletise bagged dry mineral product.

### SPECIFIC OUTCOME 4

Adhere to safety and health requirements.



#### **UNIT STANDARD:**

91

### Provide customer service in a sales and distribution environment

SAQA US ID	UNIT STANDARD TITLE						
110234	Provide customer service in a sales and distribution environment						
SGB NAME			ABET BAN	PROVIDER NAM	NE .		
SGB Mining and Minerals		Undefined					
FIELD DESCR	RIPTION		SUBFIELI	DESCRIPTION			
Manufacturing,	, Engineering a	nd Technology	Fabrication	and Extraction	A		
UNIT STANDA	ARD CODE	UNIT STANL	OARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 3	7		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate understanding relating to customer service.

#### SPECIFIC OUTCOME 2

Identify customer requirements.

### SPECIFIC OUTCOME 3

Respond to customer requirements.

### SPECIFIC OUTCOME 4

Improve customer service.



### **UNIT STANDARD:**

92

# Quantify Sulphur and /or carbon by means of a combustion furnace and titration method

SAQA US ID	UNIT STANDARD TITLE							
110119	Quantify Sulphur and /or carbon by means of a combustion furnace and titration method							
SGB NAME			ABET BAN					
SGB Mining and Minerals		Undefined						
FIELD DESCI	RIPTION		SUBFIEL	DESCRIPTION				
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	GB MM	Regular	_ n mane h	Level 3	5			

#### Specific Outcomes:

### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the determination.

#### SPECIFIC OUTCOME 2

Quantify sulphur and/or carbon by means of a combustion furnace.



### **UNIT STANDARD:**

93

## Quantify the analyte concentration in an evolved gas by means of a gas auto analyser

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE							
110116	Quantify the analyte concentration in an evolved gas by means of a gas auto analyser								
SGB NAME			ABET BANK	PROVIDER NAME					
SGB Mining and Minerals		Undefined							
FIELD DESCR	RIPTION		SUBFIELL	DESCRIPTION					
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STANDA	ARD CODE	UNIT STANL	DARD TYPE	NQF LEVEL	CREDITS				
MET-MNA-0-S	GB MM	Regular	9 2 1	Level 3	5				

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to gas auto analyser determinations.

### SPECIFIC OUTCOME 2

Quantify the analyte concentration in an evolved gas by means of a gas auto analyser.



#### **UNIT STANDARD:**

94

### Receive orders and despatch products

SAQA US ID	UNIT STAND	NIT STANDARD TITLE							
110143	Receive order	Receive orders and despatch products							
SGB NAME		ABET BANK	PROVIDER NAME						
SGB Mining a	and Minerals		Undefined		- 1				
FIELD DESC	RIPTION	***************************************	SUBFIELD	DESCRIPTION					
Manufacturin	g, Engineering a	nd Technology	Fabrication	and Extraction					
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS				
MET-FBE-0-SGB MAP Regular		and the same of th	Level 3	8					

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate an understanding of receiving orders and despatching products.

#### SPECIFIC OUTCOME 2

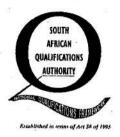
Plan and prepare for receiving orders and despatching products.

#### SPECIFIC OUTCOME 3

Receive orders and despatch products.

### SPECIFIC OUTCOME 4

Adhere to safety and health requirements.



### **UNIT STANDARD:**

95

# Reduce bulk and particle size of a dry solid sample

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE Reduce bulk and particle size of a dry solid sample							
110186	Reduce bulk a								
SGB NAME		+ .	ABET BAN	D I	PROVIDER NAME				
SGB Mining and Minerals		Undefined							
FIELD DESC	CRIPTION		SUBFIEL	DES	SCRIPTION				
Manufacturin	g, Engineering a	nd Technology	Fabrication						
UNIT STANE	DARD CODE	UNIT STANI	DARD TYPE	NQ	F LEVEL	CREDITS			
MET-FBE-0-SGB MM Regular		Level 3			10				

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to solid sample reduction techniques.

#### SPECIFIC OUTCOME 2

Reduce the particle size of a sample by crushing.

#### SPECIFIC OUTCOME 3

Reduce the particle size of a sample by grinding.

#### SPECIFIC OUTCOME 4

Reduce sample bulk to obtain a representative sub-sample.



#### **UNIT STANDARD:**

#### Reduce metal bearing material in a pressure vessel

SAQA US ID	UNIT STANDA	ARD TITLE			7		7.00
110124	Reduce metal	bearing material	in a pressure	ressel	10.70	- 1	
SGB NAME	1.1		ABET BANK	PROVIDER NAM	E	4 10	+ + ++
SGB Mining a	nd Minerals		Undefined		44.00		
FIELD DESC	RIPTION	property of	SUBFIELL	DESCRIPTION	1225	1. 1.0	u (1)
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extraction	Alexander	Jing and in	1.
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL		CREDITS	
MET-FBE-0-S	GB MM	Regular		Level 3		6	a se

Real Contract Contract

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to reducing metal bearing material in a pressure vessel.

#### SPECIFIC OUTCOME 2

Prepare to reduce material.

#### SPECIFIC OUTCOME 3

Reduce material.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the reduction process.



### **UNIT STANDARD:**

97

# Sample a water source for analytical purposes

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110182	Sample a water source for analytical purposes						
SGB NAME	5×.		ABET BAN	PROVIDER NAME			
SGB Mining and Minerals		Undefined		10.0			
FIELD DESCR	RIPTION		SUBFIEL	DESCRIPTION			
Manufacturing	Engineering a	nd Technology		and Extraction			
UNIT STANDA	ARD CODE	UNIT STANI	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular	V 1000	Level 3	6		

# **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to water sampling.

# SPECIFIC OUTCOME 2

Sample a water source for analytical purposes.



#### UNIT STANDARD:

98

### Separate a solute by means of a liquid: liquid solvent extraction technique

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110197	Separate a so	Separate a solute by means of a liquid:liquid solvent extraction technique						
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER NAME				
			Undefined	3.13				
FIELD DESC	RIPTION		SUBFIEL	DESCRIPTION				
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extraction				
UNIT STAND	ARD CODE	UNIT STANE	ARD TYPE	NQF LEVEL	CREDITS			
MET-FBE-0-S	SGB MM	Regular		Level 3	5			

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to solvent extraction techniques.

#### SPECIFIC OUTCOME 2

Separate a solute by means of the solvent extraction technique.



#### **UNIT STANDARD:**

99

### Separate an analyte from a sample by means of distillation

SAQA US ID	UNIT STAND	ARD TITLE					
110167	Separate an a	Separate an analyte from a sample by means of distillation					
SGB NAME SGB Mining and Minerals			ABET BAN	ABET BAND PROVIDER NAME			
			Undefined				
FIELD DESCI	RIPTION		SUBFIEL	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction			
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 3	5		
			the second secon				

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the distillation process.

#### SPECIFIC OUTCOME 2

Prepare for the distillation process.

### SPECIFIC OUTCOME 3

Perform the distillation.



#### **UNIT STANDARD:**

100

### Shape diamond gemstones by hand - fancy cut

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					-2
110223	Shape diamor	Shape diamond gemstones by hand - fancy cut					e Beautice
SGB NAME SGB Mining and Minerals			ABET BAND PROVIDER NAME				
			Undefined				
FIELD DESC	RIPTION		SUBFIEL	DESCR	IPTION	==1	
Manufacturing	g, Engineering a	nd Technology	Fabrication	and Extr	action		
UNIT STANDARD CODE UNIT STAND		DARD TYPE	NQF LE	VEL	- 0	CREDITS	
MET-FBE-0-SGB MM Regular			Level 3		2	1 .	

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Explain the difference in the application of the equipment and tools used to shape diamonds.

#### SPECIFIC OUTCOME 2

Set and clamp diamond gemstones for shaping.

#### SPECIFIC OUTCOME 3

Carry out fancy cut shaping on diamond gemstones.

#### SPECIFIC OUTCOME 4

Conduct post-shaping cleaning, checking and security activities.



#### **UNIT STANDARD:**

101

#### Treat misfires and sockets in an underground coal mine

SAQA US IL	UNIT STAND	UNIT STANDARD TITLE						
110130	Treat misfires	Treat misfires and sockets in an underground coal mine						
SGB NAME SGB Mining and Minerals			ABET BAN	D	PROVIDER NAME			
			Undefined					
FIELD DES	CRIPTION	0	SUBFIELI	D DE	SCRIPTION			
Manufacturir	ng, Engineering a	nd Technology	Fabrication	n an	d Extraction			
UNIT STAN	DARD CODE	UNIT STANL	DARD TYPE	N	QF LEVEL	CREDITS		
MET-FBE-0-	SGB MM	Regular		Le	evel 3	6		

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Prepare to treat a misfire and socket.

#### SPECIFIC OUTCOME 2

Treat a misfire and socket in a coalface.

#### SPECIFIC OUTCOME 3

Treat a misfire and socket in a stone face.



#### **UNIT STANDARD:**

102

### Buy and sell polished diamond gemstones

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110183	Buy and sell p	Buy and sell polished diamond gemstones						
SGB NAME SGB Mining and Minerals			ABET BAN	ABET BAND PROVIDER NAME				
			Undefined					
FIELD DESCI	RIPTION		SUBFIELD	D DES	CRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication			, , , , , , , , , , , , , , , , , , ,		
UNIT STANDARD CODE UNIT STAND MET-FBE-0-SGB MM Regular		DARD TYPE	NQ	F LEVEL	CREDITS			
		1	Lev	el 4	10			

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge of the trading practices in polished diamond gemstones.

#### SPECIFIC OUTCOME 2

Identify the costs associated with improving diamond gemstones.

#### SPECIFIC OUTCOME 3

Estimate the added value of diamonds after improvement.

#### SPECIFIC OUTCOME 4

Identify the markets in which the best price of polished diamond gemstones can be obtained.

### SPECIFIC OUTCOME 5

Buy polished diamond gemstones.

### SPECIFIC OUTCOME 6

Sell polished diamond gemstones.



#### **UNIT STANDARD:**

103

## Control a gravity concentration process in a metallurgical plant

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110161	Control a grav	Control a gravity concentration process in a metallurgical plant					
SGB NAME			ABET BANK	PROVIDER NAM	<b>E</b> ,		
SGB Mining and Minerals		Undefined					
FIELD DESC	RIPTION		SUBFIELL	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction			
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 4	17		

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the controlling of a gravity concentration process.

#### SPECIFIC OUTCOME 2

Demonstrate knowledge relating to the process of the gravity concentration operation.

#### SPECIFIC OUTCOME 3

Control a gravity concentration process.

#### SPECIFIC OUTCOME 4

Complete the duties pertaining to the controlling of a gravity concentration process.



### **UNIT STANDARD:**

104

# Determine the concentration of a substance by Ion Chromatography [IC]

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110201	Determine the concentration of a substance by Ion Chromatography [IC]							
SGB NAME SGB Mining and Minerals			ABET BAN	D	PROVIDER NAME			
			Undefined			E 2		
FIELD DESCI	RIPTION		SUBFIELD	) DE	SCRIPTION			
Manufacturing	, Engineering a	nd Technology		-	Extraction			
UNIT STAND	ARD CODE	UNIT STANI	DARD TYPE	NG	QF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular			vel 4	13		

### Specific Outcomes:

### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to Ion Chromatography.

### SPECIFIC OUTCOME 2

Perform an analysis by means of an ion chromatograph.



#### **UNIT STANDARD:**

105

#### Prepare and verify standards for quantitative analytical measurements

SAQA US ID	UNIT STANDA	RD TITLE				
110204	Prepare and verify standards for quantitative analytical measurements					
SGB NAME	1. 1.	the second	ABET BANK	PROVIDER NAME		
SGB Mining and Minerals			Undefined			
FIELD DESCI	RIPTION		SUBFIELD	DESCRIPTION		
Manufacturing	, Engineering an	d Technology	Fabrication	and Extraction		
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS	
MET-FBE-0-S	GB MM	Regular		Level 4	11	

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the preparation and verification of standards.

#### SPECIFIC OUTCOME 2

Prepare the standards.

#### SPECIFIC OUTCOME 3

Verify the standards.



### **UNIT STANDARD:**

106

# Repair polished diamond gemstones

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE						
110224	Repair polishe	Repair polished diamond gemstones						
SGB NAME SGB Mining and Minerals			ABET BAN	<u> </u>	PROVIDER NAME			
			Undefined					
FIELD DESC	RIPTION		SUBFIELI	) DE	SCRIPTION			
Manufacturing	g, Engineering a	nd Technology	Fabrication	n an	d Extraction			
UNIT STANDARD CODE UNIT STANL			DARD TYPE	N	QF LEVEL	CREDITS		
MET-FBE-0-SGB MM Regular				vel 4	4			

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Assess the dimensions and the make of diamond gemstones.

### SPECIFIC OUTCOME 2

Identify and agree the scope of what can be changed.

### SPECIFIC OUTCOME 3

Carry out the repair according to instructions.

#### SPECIFIC OUTCOME 4

Conduct post repair activities.



#### **UNIT STANDARD:**

107

### Value polished diamond gemstones

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110226	Value polished	/alue polished diamond gemstones					
SGB NAME SGB Mining and Minerals			ABET BAN	PROVIDER N	VAME		
			Undefined				
FIELD DESCR	RIPTION		SUBFIELI	DESCRIPTION			
Manufacturing	, Engineering a	nd Technology	Fabrication	and Extraction	1 1 1 1 1 1 1 1 1		
UNIT STANDA	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 4	6		

### **Specific Outcomes:**

#### SPECIFIC OUTCOME 1

Identify the systems, equipment and tools used to value polished diamond gemstones.

#### SPECIFIC OUTCOME 2

Identify the qualities of polished diamond gemstones.

#### SPECIFIC OUTCOME 3

Recommend ways to improve the qualities of diamond gemstones.

#### SPECIFIC OUTCOME 4

Price polished diamond gemstones.

### SPECIFIC OUTCOME 5

Conduct post valuing activities.



### UNIT STANDARD:

108

### Buying and selling rough diamond gemstones

SAQA US ID	UNIT STAND	ARD TITLE		78 1 7		
110228	Buying and se	elling rough diamo	nd gemstones	7 1 1-11		
SGB NAME			ABET BAN	PROV	IDER NAME	
SGB Mining ar	nd Minerals	W-N.	Undefined			<del></del>
FIELD DESCR	RIPTION		SUBFIELI	DESCRIP	TION	
Manufacturing,	Engineering a	nd Technology		and Extrac		
UNIT STANDA	RD CODE	UNIT STAND	ARD TYPE	NQF LEV	EL	CREDITS
MET-FBE-0-S	GB MM	Regular	52 A	Level 5		36

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate knowledge of the trading practices in rough diamond gemstones.

### SPECIFIC OUTCOME 2

Identify the costs associated with processing rough diamond gemstones.

### SPECIFIC OUTCOME 3

Estimate the added value of diamonds after processing.

### SPECIFIC OUTCOME 4

Identify the markets in which the best price of polished diamond gemstones can be obtained.

### SPECIFIC OUTCOME 5

Buy rough diamond gemstones.

### SPECIFIC OUTCOME 6

Sell rough diamond gemstones.



### **UNIT STANDARD:**

109

### Design and mark large sized diamond gemstones for parting

SAQA US ID		UNIT STANDARD TITLE					
110221	Design and mark large sized diamond gemstones for parting						
SGB NAME ABET BAND			PROVIDER NAM	E			
SGB Mining and Minerals		Undefined					
FIELD DESC	RIPTION		SUBFIELD DESCRIPTION				
Manufacturing, Engineering and Technology		Fabrication	Fabrication and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 5	36		

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate knowledge of the structure of diamond gemstones.

### SPECIFIC OUTCOME 2

Examine large sized rough diamond gemstones to determine their characteristics for parting.

### SPECIFIC OUTCOME 3

Predict the optimum shape of polished diamonds from large sized rough diamond gemstones.

### SPECIFIC OUTCOME 4

Conduct post-marking reconciliation, checking and security activities.



### **UNIT STANDARD:**

110

### Part diamond gemstones by means of cleaving

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE					
110222	Part diamond gemstones by means of cleaving						
SGB NAME SGB Mining and Minerals			ABET BAND PROVIDE		RNAME		
			Undefined				
FIELD DESC	RIPTION		SUBFIELD	DESCRIPTION	1		
		Fabrication	Fabrication and Extraction				
UNIT STAND	ARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS		
MET-FBE-0-S	GB MM	Regular		Level 5	6		

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Identify the equipment and tools used to part diamond gemstones by means of cleaving.

### SPECIFIC OUTCOME 2

Demonstrate knowledge of the structure of diamond gemstones and the implications for cleaving them.

### SPECIFIC OUTCOME 3

Prepare diamond gemstones for cleaving.

### SPECIFIC OUTCOME 4

Part diamond gemstones by means of cleaving.

### SPECIFIC OUTCOME 5

Conduct post-cleaving cleaning, checking and security activities.



### **UNIT STANDARD:**

111

### Make a model and determine the optimal processing of a diamond gemstone

SAQA US ID	UNIT STANDA	RD TITLE	4.4		
110235	Make a model a	and determine th	ne optimal prod	cessing of a diamond gemate	one .
SGB NAME			ABET BANK	PROVIDER NAME	
SGB Mining ar	nd Minerals		Undefined		
FIELD DESCR	RIPTION	N. C.	SUBFIELL	DESCRIPTION	
Manufacturing	, Engineering an	d Technology	Fabrication	and Extraction	
UNIT STANDA	ARD CODE	UNIT STANL	OARD TYPE	NQF LEVEL	CREDITS
MET-FBE-0-S	GB MM	Regular		Level 6	13

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Explain the circumstances when it is appropriate to use model making.

### SPECIFIC OUTCOME 2

Describe the materials, equipment and tools used in making models of diamond gemstones.

### SPECIFIC OUTCOME 3

Construct a mould and make models.

### SPECIFIC OUTCOME 4

Cut and/or polish the model to determine the optimal method of processing the diamond gemstone.

### SPECIFIC OUTCOME 5

Conduct post-model-making activities.

No. 1282

12 September 2003



### SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

### Manufacturing and Assembly

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

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the unit standard. The unit standard can be accessed via the SAQA web-site at <a href="www.saqa.org.za">www.saqa.org.za</a>. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, Hatfield Forum West, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the unit standards should reach SAQA at the address **below and no later than**13 October 2003. All correspondence should be marked Standards Setting – SGB for
Manufacturing and Assembly and addressed to

The Director: Standards Setting and Development SAQA

Attention: Mr. D Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
0145

or faxed to 012 - 431-5144 e-mail: mmphuthing@saqa.co.za

JOE SAMUELS

DIRECCTOR: STANDARDS SETTING AND DEVELOPMENT



### **UNIT STANDARD:**

1

### Fill small portable liquid petroleum gas (LPG) cylinders

SAQA US ID		UNIT STANDARD TITLE					
110335	Fill small portable liquid petroleum gas (LPG) cylinders						
SGB NAME			ABET BANK	)	PROVIDER NAME		
SGB Manufacturing and Assembly Processes		Undefined					
FIELD DESC	RIPTION		SUBFIELL	) DE	ESCRIPTION		
Manufacturing	g, Engineering a	nd Technology	Manufactu	ring	and Assembly		
UNIT STAND	ARD CODE	UNIT STAND	IDARD TYPE		QF LEVEL	CREDITS	
MET-MNA-0-	SGB MAP	Regular	West West	Le	evel 2	4	

### Specific Outcomes:

### SPECIFIC OUTCOME 1

Demonstrate understanding of and compliance with safe practice.

### SPECIFIC OUTCOME 2

Check cylinders prior to filling.

### SPECIFIC OUTCOME 3

Conduct pre-filling activities.

### SPECIFIC OUTCOME 4

Fill LPG Cylinder.

### SPECIFIC OUTCOME 5

Carryout post filling activities.

# CHECKING INFORMATION FROM NLRD FOR GOV GAZETTE BY NSB CO-ORDINATOR

nature of NSB Co- Date of Sign-off	A A A A A A A A A A A A A A A A A A A	2-3-03	i i
<b>Description</b> Sig	Liquid Petroleum Gas		
NSB	6 Liquid Pe		
Date N	05-Sep-03		

No. 1283

12 September 2003



### **SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

### **Journalism**

Registered by NSB 04, Communication Studies and Language, publishes the following unit standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the unit standards. The unit standards can be accessed via the SAQA web-site at <a href="www.saqa.org.za">www.saqa.org.za</a>. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, Hatfield Forum West, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the unit standards should reach SAQA at the address **below and no later than**13 October 2003. All correspondence should be marked Standards Setting – SGB for
Journalism and addressed to

The Director: Standards Setting and Development

SAQA

Attention: Mr. D Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
0145

or faxed to 012 – 431-5144 e-mail: <u>mmphuting@saga.co.za</u>

JOÉ SAMUELS

**DIRECTOR: STANDARDS SETTING AND DEVELOPMENT** 



### **UNIT STANDARD:**

### Sub-edit non-specialist text

SAQA US ID	UNIT STAND	ARD TITLE			
110358	Sub-edit non-s	pecialist text			0
SGB NAME			ABET BAND	PROVIDER NAME	
SGB Journalis	m		Undefined		
FIELD DESCR	RIPTION		SUBFIELD	DESCRIPTION	
UNIT STANDA	ARD CODE	UNIT STAN	L DARD TYPE	NQF LEVEL	CREDITS
COM-MS-0-SC	3B JOURN	Regular		Level 5	10

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Prepare for sub-editing of non-specialist text.

### SPECIFIC OUTCOME 2

Sub-edit non-specialist text.

### SPECIFIC OUTCOME 3

Write headlines and other layout text elements used by the publication.

.



### **UNIT STANDARD:**

2

### Perform journalism-related tasks and generate journalistic material in an editorial environment

SAQA US ID		UNIT STANDARD TITLE						
110359	Perform journalism-related tasks and generate journalistic material in an editorial environment							
SGB NAME ABET BANK SGB Journalism Undefined			ND PROVIDER NAME					
			Undefined					
FIELD DESC	RIPTION		SUBFIELD	DESCRIPTION				
UNIT STAND	ARD CODE	UNIT STAND	ARD TYPE	NQF LEVEL	CREDITS			
COM-MS-0-S	GB JOURN	Regular		Level 5	20			

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Demonstrate understanding of production processes and performance requirements in an editorial.

### SPECIFIC OUTCOME 2

Perform journalism-related tasks.

### SPECIFIC OUTCOME 3

Generate journalistic material.



### **UNIT STANDARD:**

3

### Report for a variety of journalistic purposes

SAQA US ID	UNIT STAND	ARD TITLE						
110357	Report for a v	variety of journalistic purposes						
SGB NAME			ABET BAND PROVIDER NAME					
SGB Journalism		Undefined						
FIELD DESCRIPTION SUBFI			SUBFIELL	DESCRIPTION				
UNIT STAND	ARD CODE	UNIT STAND	ARD TYPE	NQF LEVEL	CREDITS			
COM-MS-0-S		Regular		Level 5	12			

### Specific Outcomes:

### SPECIFIC OUTCOME 1

Prepare for reporting.

### SPECIFIC OUTCOME 2

Report on an assigned story.

### SPECIFIC OUTCOME 3

Review and select information gathered.



### **UNIT STANDARD:**

.

### Interview for a variety of journalistic purposes

SAQA US ID		UNIT STANDARD TITLE						
110360	Interview for a variety of journalistic purposes							
SGB NAME			ABET BANK	PROVIDER NAM				
SGB Journalism Undefined			Undefined		1.			
			SUBFIELD	DESCRIPTION				
UNIT STAND	OARD CODE	UNIT STAN	DARD TYPE	NQF LEVEL	CREDITS			
COM-MS-0-S	The second secon	Regular		Level 5	. 8			

### Specific Outcomes:

### SPECIFIC OUTCOME 1

Prepare to interview.

### SPECIFIC OUTCOME 2

Conduct an interview.

### SPECIFIC OUTCOME 3

Record and review interview.



### **UNIT STANDARD:**

5

# Write stories for a variety of journalistic purpose in print

SAQA US ID	UNIT STAND	UNIT STANDARD TITLE Write stories for a variety of journalistic purpose in print						
110361								
SGB NAME			ABET BAN					
SGB Journalism			Undefined	- NO VIDER NAME				
FIELD DESCRIPTION			SUBFIELD	DESCRIPTION				
UNIT STAND	ARD CODE	UNIT STAND	APD TYPE	MOCLEVE				
COM-MS-0-SGB JOURN		Regular		NQF LEVEL Level 6	CREDITS 12			

### **Specific Outcomes:**

### SPECIFIC OUTCOME 1

Prepare to write an assigned story.

### SPECIFIC OUTCOME 2

Write an assigned story.

### SPECIFIC OUTCOME 3

Review the written story.

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