

Black Mountain Mining

BMM-HSE-SAF-STD-0002 BMM Standard (Mandatory) - Notices and Signs

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Content Owner(s)

Freddie Haefele (Compliance & Risk Officer | BMM)

Content Reviewer(s)

Freddie Haefele (Compliance & Risk Officer | BMM)

Content Approver(s)

Catharina Kotze (Head of HSE | BMM)

❖ Change History

Modified Date	Version	Modified by	Description of change
24/03/2022	1.0	M. Korff	New Document
19/10/2022	2.0	F. Haeefe	New Template Format
19/10/2023	3.0	F. Haeefe	Content Update – Elimination of lone working areas and lone work

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❖ Definitions and Abbreviations

Word / Phrase / Abbreviation	Definition
PEME	PEME is an acronym used in Black Mountain Mining and has the following meaning: - People, - Equipment, - Materials, - Environment, The use of this in written documentation helps to comply with Resources Clause 7 – ISO 9001, ISO 14001 and ISO 45001. It is advisable to include in all written documentation.

1. INTRODUCTION

The purpose of any sign is to provide instant recognition and understanding. Symbolic signs should be used wherever possible as this allows all language groups to understand the meaning and importance of the sign.

2. SCOPE

This standard applies to all health and safety signs that should be erected on Black Mountain Mine's premises.

3. STANDARDS

3.1 Safety Signs Symbolic Type:

3.1.1 Symbolic safety signs consist of 5 basic types:

- a) **Warning:** Yellow triangle with black border with black pictogram indicating hazard.
- b) **Prohibitory:** Red annular ring with red diagonal line at 45° on white background with a black pictogram.
- c) **Mandatory:** Blue solid circle with a white pictogram.
- d) **Informatory:** Green square with a white pictogram.
- e) **Fire Equipment:** White square with a red pictogram.

3.2 All Other Signs and Notices:

- 3.2.1 Written signs should be concise and clear and unless prescribed by legislation, signs should be in English. At the head of department's discretion, signs may be posted in other languages as necessary.
- 3.2.2 Signs should be manufactured from materials which do not deteriorate readily when exposed to climatic elements.
- 3.2.3 The backs and mounting poles of all sign boards including safety, fire and road should be painted dove grey.
- 3.2.4 Road signs should conform to the roads ordinance of the Republic of South Africa except for information signs which should be white on green.
- 3.2.5 The general standards for signs are depicted **Annexure A**.
- 3.2.6 Given practical consideration to the size of the area, the following standard safety sign sizes may be used:
 - a) 150mm x 150mm
 - b) 190mm x 190mm
 - c) 290mm x 290mm
 - d) 440mm x 440mm

3.2.7 Any deviation to the above sizes should have the approval of the Mine Safety Superintendent and Fire Prevention Officer.

4. TASK LIST

- 4.1 The supervisor is responsible to ensure that all employees in his/her team are trained and fully conversant with symbolic, safety and road signs. He/she should also ensure that standardised signs are posted where required in his area of control.
- 4.2 The supervisor should ensure that examples of symbolic signs are prominently displayed in his/her section for training and information purposes.
- 4.3 It is the responsibility of the 2.9.2 appointee or supervisor to ensure that safety signs are correctly placed and are not defaced or faded. Such signs should be renewed or cleaned immediately

5. TRAFFIC RULES AND ROAD SIGNS

Clearly legible road signs and/or other devices must be provided at appropriate places to indicate such maximum permissible speed, speed restrictions, road crossings, compulsory stopping, direction of travel, restricted clearances, persons working in roadways, ventilation doors and any other road signs considered necessary.

5.1 Traffic Rules and Road Signs

- 5.1.1 Traffic rules appropriate to the operating parameters will be determined and enforced by the Shift Boss, Supervisor/Miner and TMM operators in consultation with the appointed person responsible for exercising control over running and operation of machinery. It is the responsibility of the appointed mine overseer or supervisor to ensure the safe usage of TMMS under his control.
- 5.1.2 Supervisors must ensure that operators are familiar with traffic rules and applicable operational procedures and that they are provided with the information and instructions necessary to perform their work safely.
- 5.1.3 Signs and barricades shall be provided in shaft areas to control and restrict movement of TMMS. Machines shall not be permitted to enter restricted shaft areas under power except with the permission and under the direct supervision of a competent person appointed by the engineer.
- 5.1.4 Road signs shall be provided at appropriate places and positions to control and regulate the flow of traffic and to make drivers of vehicles aware of obstructions, restrictions and the safety of persons working in haulage ways.
- 5.1.5 Warning triangles, cones, barricades, guards, flashing lights or any warning device suitable for the degree of risk must be used whenever a TMM breaks down in a position where there is the potential for collision or other danger to persons and machines. Warning devices must be placed at both sides and

a sufficient distance away from the broken down TMM to provide effective warning to other TMMs and persons in the area.

5.1.6 Where the clearance between any obstruction and a passing vehicle may be reduced to less than 500mm, such obstruction shall be clearly marked by evenly placed diagonal yellow lines painted on a black background.

5.1.7 Haul trucks have the right of way over all other types of TMMs.

5.1.8 No vehicle may overtake a haul truck, water tanker or fuel tanker without having made positive contact with the driver.

5.1.9 No vehicle may pass another while both are in the same excavation. Passing is only permissible when one TMM seeks refuge in a lay-by, cubby or other tunnel.

5.1.10 No TMM may approach within 50m of an operating shovel or other loading machine without first having made positive contact with the operator.

5.1.11 No TMM shall operate closer than 5.0m from the bench edge or face without supervision.

5.1.12 The maximum speed limit for LDVs in the Underground Mine is 16 km/h.

5.1.13 The maximum speed limit for all TMM's traveling within the mining boundary is 40 km/h.

5.1.14 Only the driver and one passenger may travel in the cab of a LDV. Passengers may only be conveyed in closed vehicles and the number of passengers is determined by the seating arrangement of the vehicle. All persons travelling in the vehicle must be seated and wear seat belts.

5.2 Wearing Of Seat Belts

5.3.1 All persons travelling on the mine property must ensure that seat belts are worn in accordance with the Road Traffic Act.

4.5.1 All Vehicles and TMM equipment must be fitted with seat belts.

5.3 Mobile Phones while driving a vehicle or operating Self-Propelled Machines

The use of hand held mobile phones/cell phones, while driving a vehicle or any self-propelled mobile machine is prohibited.

Drivers must pull off the road in a safe area to answer or make calls.

5.4 Motorcyclists

Whether using private or company vehicles, while on Black Mountain Mine property, motorcyclists are required to:

4.7.1 Wear eye protection

4.7.2 Wear motorcycle crash helmets.

4.7.3 Ensure the motorcycle is in good condition and doesn't pose any threat to the surrounding road users and environmental aspects

6 VALIDITY AND DOCUMENT MANAGEMENT

6.1 Document Validity

This SOP is effective from 2025/03/06 and was last reviewed on 06-03-2025. This SOP will be reviewed every 2 Years.

6.2 Document Management

- 6.2.1 This SOP replaces any other SOP issued earlier by BMM to the extent specifically covered here. This SOP should be followed in letter and spirit.
- 6.2.2 BMM is committed to continuously reviewing and updating policies and procedures, based on the Entity's risk assessment and shall incorporate for any regulatory requirement which is required to do so.
- 6.2.3 Any amendment to this SOP or issue of any guidance or circular etc. under this procedure must be approved in writing by the approving authority as listed in this document.
- 6.2.4 BMM reserves the right to withdraw, modify or revise the SOP as a whole / partial without providing any justification for the same. On revision, it should be duly communicated to the personnel involved.
- 6.2.5 If compliance with this SOP ever conflicts with the applicable law, regulation, directives issued by the statutory and or regulatory authority, then compliance must be ensured with the law.
- 6.2.6 In order to ensure compliance or to address any known conflicts with the law or to address any specific local requirements, BMM may adopt local sub-procedures which shall be by way of addendum to this SOP and which shall be approved by the approver of this SOP. Proposing of such addendum shall be the responsibility of the respective Entity's competent authority who is at an equivalent level with the SOP owner as set out in this document.

6.3 Violation of Sop

- 6.3.1 BMM follow a "Zero Tolerance Policy" with respect to non-compliance with this SOP and/or any other SOP / guidance issued by BMM and its constituent Entities.
- 6.3.2 Violation of this SOP is subject to appropriate disciplinary actions which may include but not limited to termination of employment. This determination will be based on the facts and circumstances of each situation. Any accused of violation of this SOP will be given an opportunity to present their case prior to any determination of appropriate disciplinary actions. Violation of this SOP may also be subject to substantial civil damages, criminal fines and prison terms.
- 6.3.3 Each employee is responsible for ensuring that their conduct and the conduct of anyone reporting to them shall fully comply with this SOP. Compliances, both personal and by subordinates, will be a factor in periodic performance appraisals.

6.4 Disclaimer

- 6.4.1 This SOP issued by BMM is for internal compliance and does not create, nor shall it be construed to create, directly or implicitly, any rights, duties or obligations of BMM to any person, body or legal Entity.
- 6.4.2 This document and its contents are the copyright property of BMM. The release of this document to any third party outside BMM is strictly prohibited without prior consent.

6.5 REVIEW AND APPROVAL

Content Owner(s)

Freddie Haefele (Compliance & Risk Officer | BMM) TimeStamp: 2025/03/11 12:26:23 PM
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Content Reviewer(s)

Freddie Haefele (Compliance & Risk Officer | BMM) TimeStamp: 2025/08/21 11:43:11 AM
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Content Approver(s)

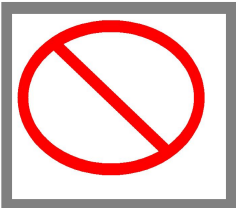
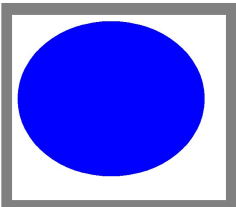
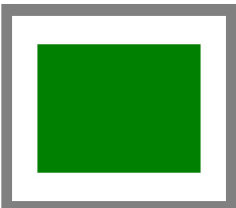
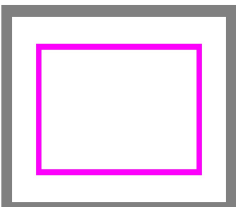
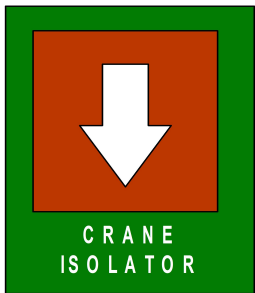
Catharina Kotze (Head of HSE | BMM) TimeStamp: 2025/08/28 9:27:44 AM ||

This document was approved (in sequence) by the individuals above using electronic approval in our Document Control System.

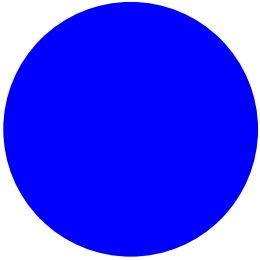
Final approval status: **Approved**

Approvals were done electronically.

❖ **Annexures / Appendix**

BASIC SYMBOLIC SAFETY SIGNS	
	WARNING
	PROHIBITORY
	MANDATORY
	INFORMATORY
	FIRE EQUIPMENT
SPECIALISED SYMBOLIC SIGNS	
	OPERATION PURPOSES

EXAMPLES OF MANDATORY SIGNS

Shape: Circular Colour: Blue Pictogram: White 	 MV 1  MV 2  MV 3  MV 4  MV 5  MV 6  MV 7  MV 9  MV 10  MV 11  MV 12  MV 13  MV 14  MV 15
MV 1 Eye protection shall be worn MV 2 Respiratory protection shall be worn MV 3 Head protection shall be worn MV 4 Hearing protection shall be worn MV 5 Hand protection shall be worn MV 6 Foot and leg protection against liquids shall be worn MV 7 Foot protection against crushing shall be worn	MV 8 Safety harnesses and lifelines shall be worn MV 9 Apron shall be worn MV 10 Face protection shall be worn MV 11 Air-supplied hood shall be worn MV 12 Dust mask shall be used MV 13 Air extraction shall be used MV 14 Use welding screen

EXAMPLES OF INFORMATION, GENERAL SIGNS

Shape: Square
Colour: Green
Pictogram: White



GA 1 First-aid equipment
GA 2 General direction
GA 3 Direction to escape route
GA 4 Direction to escape route
GA 5 Manned first-aid station
GA 6 Drinking water
GA 7 Blasting point

GA 8 Travelling way
GA 9 Refuelling point
GA 10 Ladies toilet
GA 11 Gents toilet
GA 12 Refuge chamber
GA 13 Telephone
GA 14 Waiting place

GA 15 Emergency telephone
GA 16 Electric isolator switch
GA 17 Stairs going down
GA 18 Stairs going up
GA 19 Eye wash
GA 20 Safety shower
GA 21 Location of bomb bag

EXAMPLES OF INFORMATION, FIRE FIGHTING SIGNS

Shape: Square Colour: White with red border line Pictogram: Red 						
	FB 1	FB 2	FB 3	FB 4	FB 5	FB 6
						
	FB 7	FB 8	FB 9	FB 10		
FB 1	Location of fire-fighting equipment			FB 8	Fire pump connection	
FB 2	Fire extinguisher			FB 9	Location of fire blanket	
FB 3	Fire hose			FB 10	Fire Marshal	
FB 4	Fire Hydrant					
FB 5	Fire alarm					
FB 6	Sprinkler stop valve					
FB 7	Emergency Phones					

EXAMPLES OF PROHIBITORY SIGNS

Shape: Circular (annular or disc) Colour: White with red border line Pictogram: Red 	LW Om "geen toegang" aan te duiden, id die verkeersteken in standaard opgenomen vir die gebruik saam met "deur-gang vir voetgangers verbode".  N.B. To signify "no entry", the traffic sign has been introduced into the standard for use in conjunction with "thoroughfare for pedestrians prohibited".																																
<table border="0"> <tr> <td>PV 1 Smoking prohibited</td> <td>PV 9 Hand tramming prohibited</td> <td>PV 17 Locomotives prohibited beyond this Point</td> </tr> <tr> <td>PV 2 Fire and open flames prohibited</td> <td>PV 10 Tractors and fork-lifts prohibited beyond this point</td> <td>PV 18 Wearing of safety helmets prohibited</td> </tr> <tr> <td>PV 3 Thoroughfare for pedestrians prohibited</td> <td>PV 11 Use of compressed air to dust body prohibited</td> <td>PV 19 Carrying of fire-arms prohibited</td> </tr> <tr> <td>PV 4 Water as extinguishing agent prohibited</td> <td>PV 12 Loose clothing, ties, jewellery and confined long hair prohibited</td> <td>PV 20 Dogs prohibited</td> </tr> <tr> <td>PV 5 Drinking of this water is prohibited</td> <td>PV 13 Dumping prohibited</td> <td>PV 21 Cameras prohibited</td> </tr> <tr> <td>PV 6 Proceeding beyond this point prohibited</td> <td>PV 14 Do not obstruct</td> <td>PV 22 Alcohol prohibited</td> </tr> <tr> <td>PV 7 Cycling prohibited</td> <td>PV 15 No entry for heavy vehicles</td> <td></td> </tr> <tr> <td>PV 8 Carrying of long material prohibited</td> <td>PV 16 No entry for vehicles</td> <td></td> </tr> </table>										PV 1 Smoking prohibited	PV 9 Hand tramming prohibited	PV 17 Locomotives prohibited beyond this Point	PV 2 Fire and open flames prohibited	PV 10 Tractors and fork-lifts prohibited beyond this point	PV 18 Wearing of safety helmets prohibited	PV 3 Thoroughfare for pedestrians prohibited	PV 11 Use of compressed air to dust body prohibited	PV 19 Carrying of fire-arms prohibited	PV 4 Water as extinguishing agent prohibited	PV 12 Loose clothing, ties, jewellery and confined long hair prohibited	PV 20 Dogs prohibited	PV 5 Drinking of this water is prohibited	PV 13 Dumping prohibited	PV 21 Cameras prohibited	PV 6 Proceeding beyond this point prohibited	PV 14 Do not obstruct	PV 22 Alcohol prohibited	PV 7 Cycling prohibited	PV 15 No entry for heavy vehicles		PV 8 Carrying of long material prohibited	PV 16 No entry for vehicles	
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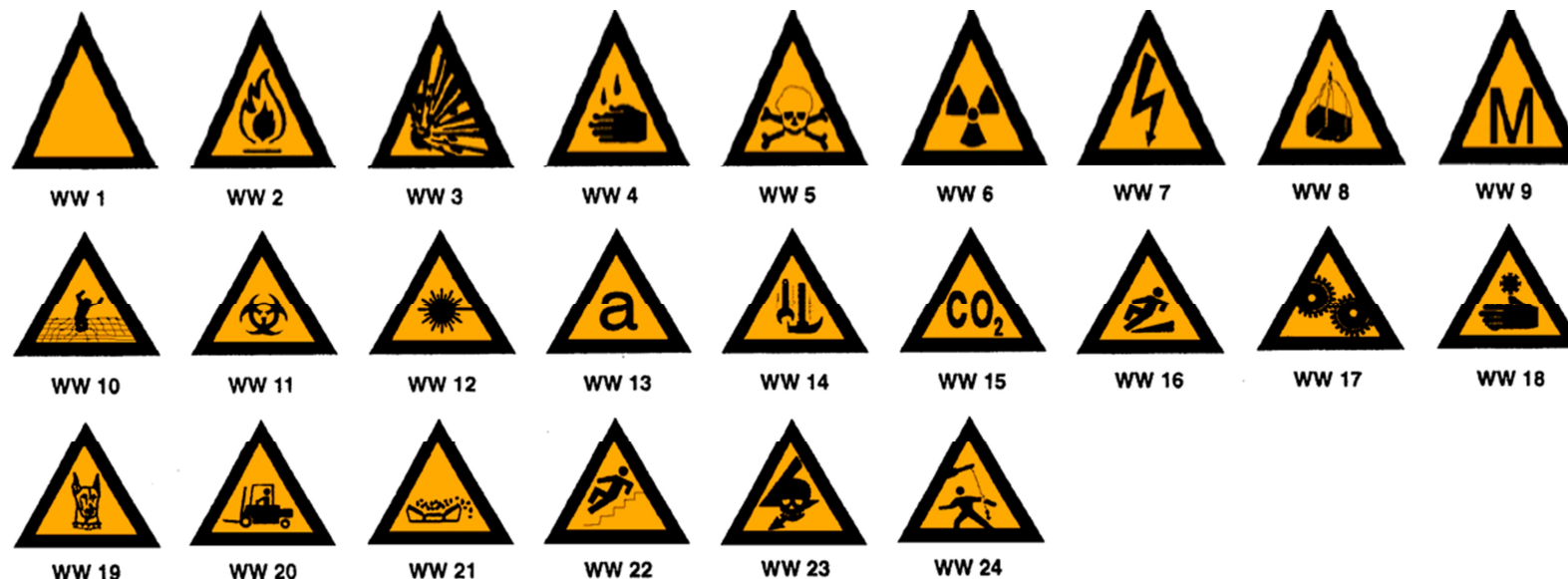
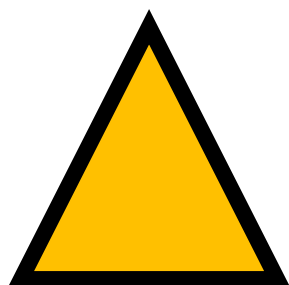
EXAMPLES OF WARNING SIGNS

Revisions of this document are controlled electronically. Treat hard copies as uncontrolled. Refer to the latest online version.

Shape: Triangular

Colour: Black border,
yellow centre

Pictogram: Black



WW 1 General warning of hazard

WW 2 Warning of fire hazard

WW 3 Warning of explosion hazard

WW 4 Warning of corrosion hazard

WW 5 Warning of poisonous substances hazard

WW 6 Warning of ionizing radiation hazard

WW 7 General warning of electric shock hazard

WW 8 Warning of suspended loads hazard

WW 9 Warning of methane hazard

WW 10 Warning of fragile roof

WW 11 Warning of biological hazard

WW 12 Warning of laser hazard

WW 13 Warning of asbestos hazard

WW 14 Warning of workers overhead

WW 15 Warning of carbon dioxide hazard equipment

WW 16 Warning of hazard of slippery walking surface

WW 17 Warning of hazard of moving machinery

WW 18 Warning of hazard of cold burns

WW 19 Beware of dogs

WW 20 Beware of fork-lifts

WW 21 Beware of material falling from moving conveyor belt

WW 22 Warning of hazard of slippery steps

WW 23 Warning of hazard of exposed live high-voltage

WW 24 Warning of hazard of swinging beam