



VUL-ATN-32- Blast Sweeper Authorisation

All Blast Sweepers are required to be site authorised prior to acting in a Blast Sweeper position at Vulcan Mine.

Supervisor Approval to Undertake Assessment					
Name:		Signature:		Date:	
Trainee Details					
Name:		DOB:			
Company:					
Pre-requisites				Trainer/ Assessor Initial	
☐ Vulcan Mine Site Inducted					
☐ Site Appointed Supervisor					
☐ Copy of VUL-SOP-116g Charging and Firing Explosives given to Trainee					
Trainer/Assessor Verification					
<i>I verify that the trainee has the current pre-requisites required for this authorisation.</i>					
Name:		Signature:		Date:	



Responsibilities of Blast Sweepers

1. Sweepers must ensure all personnel and equipment is clear of the nominated exclusion zones.
2. Blast Sweepers shall ensure they are familiarised of their assigned exclusion zone by an appointed Blast Controller either verbally or a drive around so long as the sweeper has full understanding of their sweep areas and receive a blast map from the Blast Controller
3. To ensure the blast area is clear, the Blast Sweeper shall report back to the Blast Controller using positive communication that their area is clear of personnel and equipment.
4. Monitor fume and dust levels as directed by the Blast Controller



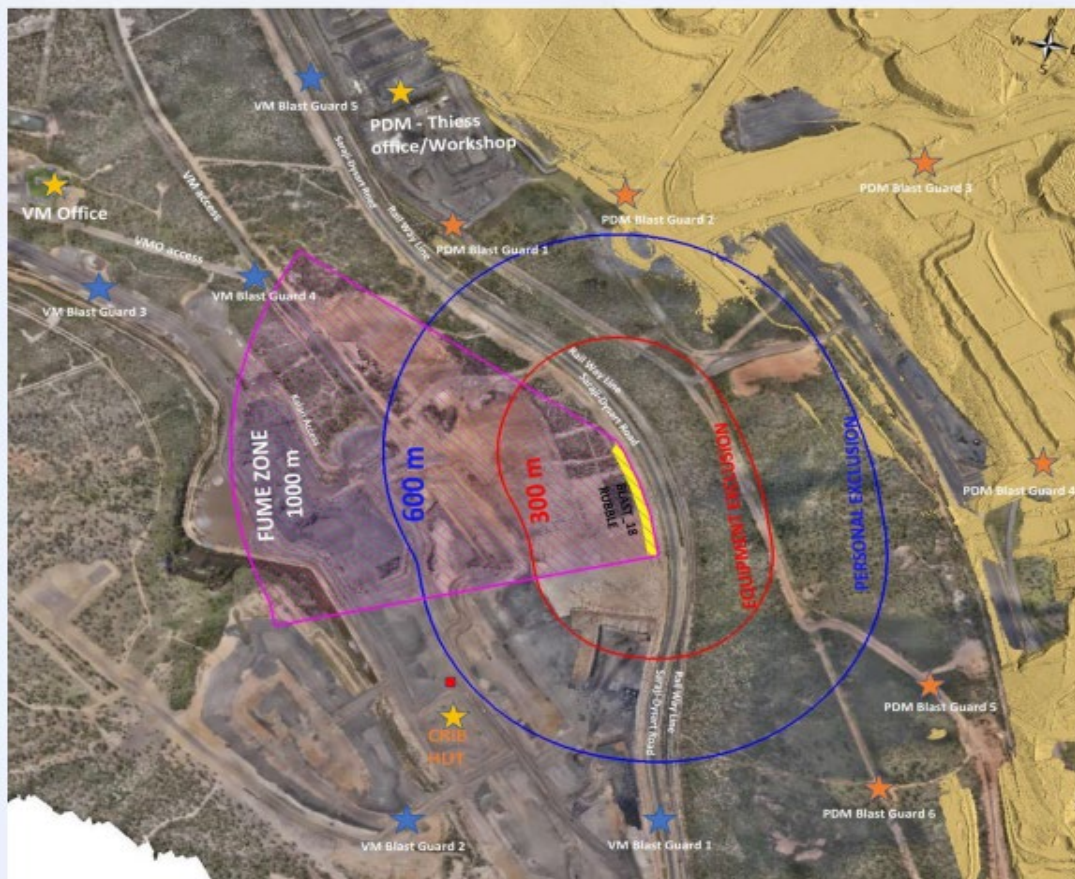


Theory Assessment		Satisfactory
1. What is the minimal exclusion zone for personnel at Vulcan Mine? a) 100m b) 600m c) 350m		☐
2. What radio channel must be used during blasting at Vulcan Mine?		☐
3. Who must the Blast Sweeper give all the information to?		☐
4. What should the Sweeper do if there are personnel in the blast exclusion area? a) Say nothing b) Escort/direct the persons from the exclusion zone c) Allow them to stay in the exclusion zone if they are aware of the blast		☐
5. When can Blast Guards leave their position?		☐
6. Explain the things that should be on a blast map?		☐
Blast Controller Confirmation		
<i>I verify that the trainee has completed the Theory Assessment to a satisfactory level and is deemed competent for this authorisation.</i>		
Name:	Signature:	Date:



Conditions / Positions	Normal State (Low)	Level 1 Response (Moderate)	Level 2 Response (High)	Level 3 Response (Very High)
Trigger / Conditions	Blast Initiated – No recognised fume event evident and is inside the exclusion zone.	Blast Initiated – Fume event evident but is contained within the fume exclusion zone wedge.	Blast Initiated – Fume event evident and has breached fume exclusion zone / Guards fallen back (No exposure to NOx).	Blast Initiated – Fume event evident - Fume has breached exclusion zone had has or has potential to expose personnel.
Blast Guards	Hold your Blast Guard position until the all clear has been given by the Blast Controller.	- Ensure your guard position is clearly understood and a pre-determined retreat plan is in place. - If in doubt ask the Blast Controller to repeat the instructions. - Understand if fume cloud is moving toward you and you do not have time to move safely, ensure the windows are up and air-conditioning and fan is off or on recycle.	- Monitor radio channel during blast. - Follow the Blast controller direction. - Leave vehicle running and windows up at all times. - Monitor dust cloud and fume event position and distance to your location. - Communicate to Blast Controller if you feel that your position may be close to the fume cloud and need to fall back.	- Follow Emergency Response Procedures - Ensure you hold your Blast Guard position until the all clear has been given by the Blast Controller unless you are required to utilise your pre-determined retreat plan. - Monitor dust cloud and fume event position and distance to your location. - Understand if fume event is moving towards you and you do not have time to move safely, ensure the windows are up and air-conditioning/fan is off or ensure on recycle. - Be aware of emergency vehicles in your area.
Blast Sweepers	- Remain on standby outside guard positions and monitor radio. - Be prepared to provide assistance to the blast controller if called upon.	- Remain on standby outside guard positions and monitor radio. - Be prepared to provide assistance to the blast controller if called upon.	- Remain on standby outside guard positions and monitor radio. - Be prepared to provide assistance to the blast controller if called upon.	- Follow Emergency Response Procedures - Monitor radio channel and be prepared to supply assistance in the emergency situation
Coal Mine Worker	- At pre-start ensure any blast details are clearly understood, if not ask your supervisor. - Maintain radio silence until all clear is given by the blast controller.	- At pre-start ensure any blast details are clearly understood, if not ask your supervisor. - Maintain radio silence until all clear is given by the blast controller.	- At pre-start ensure any blast details are clearly understood, if not ask your supervisor. - Maintain radio silence until all clear is given by the blast controller. - Monitor the radio channel during the blast. - Follow directions from your Supervisor, Blast Controller or Blast Guard.	- Follow Emergency Response Procedures. - If blast fume or dust is heading in your direction, contact the Blast Controller and follow their directions, to relocate to a specified safe location or retreat if possible. If this is not possible take shelter in a safe location from blast fume in a sealed cab or crib room with the windows up and air-conditioning/fan off or on recycle.
ERT	Ensure all ERT personnel are briefed on planned blast e.g. Pre-start Meeting.	Monitor Radio channel for any changes in Blast conditions.	Monitor radio channel for any changes in Blast conditions.	- Follow Emergency Response Procedures. - Prepare to treat personnel onsite if exposed to NOx Blast fume.

Typical Vulcan Mine projected blast fume map





1- Fume



2- Minor Fume



3- Moderate Fume



4- Significant Fume



5- Major Fume



Trainee Acknowledgement

I acknowledge receipt of this authorisation and understand my responsibilities and obligations under the Vulcan Safety and Health Management System, the Coal Mine Safety and Health Act 1999 and the Coal Mining Safety and Health Regulations 2017, in relation to shot firing activities at Vulcan Mine.

Name:

Signature:

Date:

SSE/SSE Delegate Authorisation

I hereby authorise the abovementioned Coal Mine Worker as a Blast Sweeper at Vulcan Mine

Name:

Signature:

Date: