

Logo	Hazard Identification & Risk Assessment – Abrasive Wheel	Doc Ref #: XYZ/IMS/HSEQ/F/00 Issue Date: DD-MM-YYYY Rev #: 00 Page 1 of 5
	HSEQ Forms	
	Organization Name	

Risk Assessment Ref #		Assessment Date	
Project Ref #		Next Assessment Date	
Project Name		Site Location	
Main Activity		Prepared By	

S/#	Activity	Hazard and Impact	Affected People	Risk Level	Control Measures	R. Risk Level	Action By
				H/M/L		H/M/L	
1	Working with Abrasive Wheel mounted on powered tool	Flying objects entering the eyes	Operator	High	<ul style="list-style-type: none"> - Worker should be provided with the face shield - The new disc should be used for the work. - Damaged or worn off disc can produce more flying objects. - Workers should be trained to perform the job safely. - Supervision and monitoring of the task is mandatory. - Work should be performed in an isolated area to ensure the other workers are safe. - Inspection before job is mandatory - Maintenance of the equipment is needed. 	Low	HSE Officer/ Site Manager/ Project Manager
2		Body contact with abrasive wheel	Operator	High	<ul style="list-style-type: none"> - Worker must be wearing robust clothing when performing the job. 		

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					<ul style="list-style-type: none"> - The powered tool must come with Hold-to-run ability to ensure when machine is not in use it doesn't work. - When machine is not in use, ensure the power plug is removed from power source - Always maintain a distance between tool and body to ensure it don't come near the body. 		
3		Fumes can be inhaled produced during the job	Operator	High	<ul style="list-style-type: none"> - Workers must be provided with face mask. - If needed, respirator should be provided to ensure they breath filtered air. - Workers should be provided with the information about the work piece they are going to work on. - Ensure the hazardous substances are identified and workers are told. - Make sure arrangements are in place to counter the emergency situation. 	Low	
4		Fire	Operator/ Surrounding workers	High	<ul style="list-style-type: none"> - Ensure the tool or equipment under use are of recommended type. - Any damaged piece of equipment is discarded or repaired before use. - Workers are trained to inspect their equipment or tool before use. - Firefighting equipment is provided at easily reachable location. 	Low	

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					- Supervision, training, and maintenance at regular intervals is mandatory.		
5		Bursting abrasive wheel during job	Operator/ Surrounding workers	High	<ul style="list-style-type: none"> - To perform the job, correct abrasive disc should be used. - Workers should use correct equipment for job. - Workers must not perform the job when they have no information or permission. - Any defective part of the equipment should be discarded. - Workers must have PPEs to use when perform the job. - The flying broken pieces of the disc are able to damage others working nearby so work should be performed in an isolated workplace. - Monitoring, supervision, and training is mandatory. 	Low	
6		Electric shock due to damaged equipment	Operator	High	<ul style="list-style-type: none"> - The correct equipment use is mandatory. - Inspection of the equipment before use. - Discard the damaged equipment. - Maintenance of the equipment on regular intervals. - Cord and the handle of the equipment should be insulated. - Any broken insulation should be replaced. 	Low	

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					<ul style="list-style-type: none"> - If there is any defect discovered before use, repairing technician must be informed. - Maintenance record should be maintained. 		
7		Noise can damage the hearing ability of the worker	Operator	High	<ul style="list-style-type: none"> - Hearing protection must be provided - Maintenance of the equipment - Work should be performed in an isolated place - The area should be laminated with noise absorbing material 		
8		Inhaling silica dust can lead to diseases e.g., cancer	Operator	High	<ul style="list-style-type: none"> - Use of respirator - Use of appropriate mask is also useful - Worker should be trained and supervised - Modify the job if possible to eliminate the risk level - Worker should be provided with the information about workpiece before job 	Low	
9		Vibration	Operator	High	<ul style="list-style-type: none"> - The working equipment should be maintained on regular intervals. - If possible, use table mounted to reduce the risk of vibration. - Workers must be trained and supervised. - Job planning is mandatory to reduce risk. 	low	

Risk Matrix

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Category	Description	Risk Assessment Rating Matrix		Likelihood		
				1	2	3
Low 1-2	Not significant risk level but controls implementation is optional	C o n s e q u e n c e s	1	1	2	3
Medium 3-4	Controls should be implemented to control the risk		2	2	4	6
High 6-9	Work should not be commenced without implementing robust controls		3	3	6	9

Prepared By	Reviewed By