

USSL Risk Assessment

Risk Assessment No		54		Activity		Use of Angle Grinders.		Locations		Site Works		
Assessment Undertaken by		M. Watson		Assessment Date		Jun-17		Review Date		1/6/18		
Risk Ratings												
Persons at risk (PAR)		Severity / Harm Rating (S)				Likelihood (L)						
E	Employees / Contractors	1	Negligible injury or no injury				1	Extremely unlikely to occur at any time				
P	Members of Public	2	Minor injury requiring First Aid				2	A rare combination of factors would be required for an incident to occur				
V	Visitors	3	Lost time injury				3	Could happen, but considered unlikely under normal circumstances				
C	Clients	4	Single serious injury or single death				4	Not certain, but an additional factor may result in an incident				
		5	Multiple deaths and or serious injuries				5	Almost inevitable that an incident will result - Highly likely to occur				
Tolerance rating												
15 - 25		DANGER - Task/activity should not proceed. Further control measures are to be put in place to reduce risk. When in place the level of risk should be re-assessed for adequacy before the work recommences.										
7 - 14		SIGNIFICANT RISK is attached to this task/activity. Look critically at ways of reducing the level of risk to a more tolerable level by improving existing control measures or by introducing new controls.										
1 - 6		TOLERABLE RISK - Consider if risk is "as low as reasonably practicable", If not try to reduce risk further by improving control measures. Keep under review and continue with task/activity, but with caution										
NB. Full PPE will be utilised as a matter of course during any works undertaken												
Initial Assessment No controls						Risk Mitigation Measures						
Item No	Hazard Identification	PAR	S	L	Score	Control Measures	S	L	Revised Score	Risk Acceptable		
1	Hand Arm Vibration.	E	3	4	12	Grinding Operations should be rotated with other suitable trained members of staff to reduce the effects of working with vibration equipment. All equipment should be maintained and records kept for inspection. Operatives are advised not to grip the handles too tightly. Operatives must keep their hands and arms warm i.e. wear gloves and suitable clothing in order to maintain blood supply to the hands, fingers and arms. Select the right equipment for the job. Always check tools before use, ensure tools are properly maintained. Remember to exercise fingers/hand after using vibration tools.	3	2	6	Yes		
2	Injuries caused through use of defective equipment, risk of fire, trip hazards, noise induced hearing loss, Dust.	E,P	4	4	16	Signage and area cordons should be provided where cutting and grinding operations are taking place. Operators should check the area for services, using detection equipment prior to the commencement of work. Only authorised persons that have been trained in the use of abrasive wheels are permitted to use any form of angle grinding equipment. Operating instructions must be available, the instruction must be read and understood by the operator. Permit to work for hot work and fire fighting equipment may be required depending on the location of the cutting operation and the materials used (Consult Supervisor). The operator must visually inspect the grinder for signs of damage, the operator must ensure guards are correctly adjusted and secured. The operator must ensure any trailing cable do not become a trip hazard. DO NOT USE DEFECTIVE EQUIPMENT, any defective equipment must be isolated and brought to the attention of the supervisor. Protective goggles conforming to BS EN 166, ear defenders, dust/fume masks, gloves and safety footwear must be worn by operators. TYPES OF PPE WILL DIFFER DEPENDING ON MATERIALS USED. (CONSULT PPE PROVIDER)	4	1	4	Yes		
3	Overspeeding, impact from particles, disintegration of abrasive wheels.	E	4	4	16	Use only grinding wheels that have a speed that is as least as high as the no lead speed of the machine. Ensure disc is correct for the task i.e. cutting/grinding. Observe manufactures instructions for the mounting and use of the equipment. Before switching on the machine, check that the grinding disc is properly mounted and can turn freely. Operators should test run new grinding wheels without load for at least 60 seconds. Damaged, out of round or vibrating grinding wheels should not be used report defective equipment to the supervisor. Protect grinding wheels from shock impact, grease etc. When cutting masonary, use a depth guide, guard and dust vacuuming. DO NOT use grinders on any material containing asbestos. Do not clamp angle grinders in a vice. Direct power cable to the rear away from the machine when in use. Keep hands clear from rotating grinding wheels Sparks and fumes are generated when materials are cut , operators should pay attention to the direction of sparks ensuring the area is clear from other people or combustable material. Use in a well ventilated area. Operators should ensure materials are stable, clamps can be used to stabilise materials. Discs should not be touched until they have cooled and the machine is isolated from the power supply.	4	1	4	Yes		