

# RISK & OPPORTUNITIES - RISK ASSESSMENT 017










<b>WORK TASK</b>	<b>USE OF PETROL DRIVEN, ELECTRICAL, &amp; PNEUMATIC DISC CUTTERS</b>		
	<i>Works reference [where required]</i>		<i>Client / Workplace / Yard</i>
<i>Site/location of use</i>			
<i>Start Date:</i>			<i>End Date:</i>
<i>Worker participation &amp; consultation</i>			

<b>PERSONS EXPOSED</b>		<b>RISK ASSESSMENT METHODOLOGY</b>		<b>RISK ACTION LEVELS:</b>																																
Employers staff		Value Likelihood Axis	Value Severity of Harm Axis	1-5	No action required																															
Other workers		1 Negligible	1 No harm	6-11	Low – limited action required																															
Members of the public		2 Low	2 Minor	12-	Medium – significant, action required following the principles of prevention																															
Visitors		3 Likely	3 7day loss	19-25	High – significant, action may require technical input beyond the author																															
Plant operators		4 Very likely	4 Specified injuries																																	
Young workers		5 Certain	5 Catastrophic																																	
Others please state		<table border="1"> <tr> <td rowspan="5">LIKELIHOOD</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> </tr> <tr> <td>3</td> <td>6</td> <td>9</td> <td>12</td> <td>15</td> </tr> <tr> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td colspan="6">SEVERITY OF HARM</td> </tr> </table>		LIKELIHOOD	5	10	15	20	25	4	8	12	16	20	3	6	9	12	15	2	4	6	8	10	1	2	3	4	5	SEVERITY OF HARM						
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<b>POTENTIAL NUMBER EXPOSED</b>																																				

Risk rating calculated by:  $L \times S = RR$ , where L is the estimated likelihood value of an accident occurring, (Likelihood), S = the estimated value of the severity of harm because of a potential hazard being realised.  $RR^1$  = the Risk Rating without controls in place and  $RR^2$  = Residual Risk with controls in place.

HAZARDS	L	S	RR <sup>1</sup>	PRINCIPLES OF PREVENTION	L	S	RR <sup>2</sup>
Working area; Flying objects/particles , Dust/fumes; Noise; Vibration. Manual handling. Sparks; Slips trips and falls; Fitting the wrong disc or fitting it incorrectly; Equipment failure	4	5	20	<p><b>Work area:</b>            Carry out a visual and physical check before you start cutting that the work area is free from debris, well ventilated and clear of other workers. Where possible cut outside. Make sure you keep your work area clean and tidy.</p> <p><b>Flying objects/particles:</b>            The protection you wear to protect your eyes is important. It will have stamped on the equipment BSEN-166B this means it will protect you from flying objects. The other thing you must make sure is that whether you wear goggles or a face shield, it cannot be dislodged. Ensure that guards are fitted correctly and working.</p> <p><b>Dust and fumes:</b>            Make sure you do your cutting in well ventilated area. If that is not possible then you will need to look at ways to ventilate the area mechanically. Use equipment fitted with water suppression facilities, if not then use other means to damp down and suppress dust. Some dust and in particular, respirable silica dust, can cause you long term problems, so make sure you wear the right type of mask and that it fits you properly. This will involve a face fit test for the type of mask you wear.</p> <p><b>Noise:</b>            Without wearing the hearing protection issued you could only use the disc cutter for about 2-3minutes in a whole day, after that you will damage your hearing. Earmuffs will allow you to work for much longer times. Re-useable and throwaway plugs will not.</p> <p><b>Vibration:</b>            You must check the trigger time on the disc cutter you are using. If the m/s<sup>2</sup> is in excess of 2.5m/s<sup>2</sup> [the threshold for HAV] your trigger time may be significantly reduced. After that and over longer periods of time you could suffer from the effects of vibration. You must tell your supervisor or safety officer immediately if you have any of the symptoms recognized on the vibration card issued to you</p> <p><b>Manual handling:</b>            Make sure that you follow the good handling technique when using disc cutters. Try to avoid awkward postures that involve bending and twisting.</p> <p><b>Sparks:</b>            Make sure that you do not leave any petrol can beside you when you use the disc cutter. Store it in a safe place and wear gloves when you top up machines.</p> <p><b>Abrasive discs:</b>            Ensure the correct discs are chosen for the task and the RPM stamped on the machine and disc are not exceeded.</p> <p><b>Abrasive wheels register:</b>            No one is allowed to change the abrasive wheels on the disc cutters unless they are entered onto the employers register and they have been trained.</p> <p><b>Equipment failure:</b>            All company disc cutters must be inspected by workers before they use them, and any defects reported immediately to their supervisor. Weekly inspection logs must be completed by the supervisors and a record kept. In particular you need to check that the guard is in position and working correctly.</p>	2	4	8

<b>ADDITIONAL CONTROLS</b>	<b>Statutory Inspections:</b>	<b>Permits:</b> As may be required in certain work environments. Hot works permit
<b>Information, instruction, and training &amp; supervision:</b> All workers & visitors are to be given specific information and Instruction by way of induction into any site-specific rules. Workers are to be given specific information and Instruction in the in safe use of using disc cutters and training for those that change abrasive wheels. If you are under the age of 18 you are not permitted to change abrasive discs.	<b>Monitoring:</b> Work supervisors are to ensure that workers under their control adhere to any site-specific rules. Changes in the arrangements can be communicated through 'tbt's'.	<b>Emergencies:</b> Follow any specific site or principal contractor's procedures. Trained first aiders only may give first aid. All incidents must be reported as quickly as possible so that any accident reporting procedures can be dealt with i.e., RIDDOR
<b>TEMPORARY WORKS</b>		

<b>PERSONAL AND RESPIRATORY PROTECTIVE EQUIPMENT</b>	PPE/RPE must always be regarded as a last resort, the last line of defence. All other measures must be considered and if the use of PPE/RPE avoided where possible and practical. Where PPE/RPE is worn it must be suitable, compatible, and issue free. If in doubt ASK!			
 EN397 Industrial safety helmet	 EN13287 Slip resistant	 EN471.2	 EN166B Impact	 EN352 Ear muffs
 As required May require waterproof clothing	 As required	 As required	 EN149 FFP3	
ADDITIONAL:				

**MONITORING**

**Briefing:** person in charge/control of the activity is to brief those under their control this assessment.

**Change and review:**

The originator is responsible for ensuring that the assessment is reviewed when it is no longer valid. This could be after the results of any monitoring, changes in law, technology or work process. As a minimum the assessment is to be reviewed annually

PERSONS BRIEFED IN THE SAFE PROCEDURE OF THIS ACTIVITY/RISK			
PRINT NAME	COMPANY	SIGNATURE	DATE