

RISK ASSESSMENT FORM

STRTRA-02

Dept. Name:	Engineering Workshop	RA no*:		Rev No.*	01	Date:	
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Work / Use Bench Grinders & Portable Grinding/Cutting Equipment

Sect.1. Risk Assessment Table

Sub Task/Activity	Hazards Identified	RA Criteria (People/Environment/Property/Process)	Consequences	Existing Control Measures	Severity** Rating (A) of consequences	Likelihood** Rating (B) /Refer Table in	Risk Level** (A X B)	Additional Controls (if any)	Person Responsible	Agreed time frame	New Severity Rating(A1) (after additional)	New Likelihood Rating(B1) (after additional)	Residual Risk (A1 x B1)	Decision to proceed with work Y/N
Bench Grinders														
	Defective Grinding Wheels	People	Injury	Ensure grinding wheel is in satisfactory condition.	2	2	4	If found to be damaged the wheels are to be balanced and repaired			1	1	2	Y
			Injury	Ensure the grinding wheels have flat faces	2	2	4	Use of grinding wheel dressing tool			1	1	2	Y
			higher linear speed of grinding wheel	Ensure grinding wheel is not below minimum diameter for use	3	2	6	Fit new and balanced wheel		Prior to use	2	2	4	Y
	Excessive clearance of tool rest	People	Injury	Adjust tool rest to approx. 3mm form wheel	2	2	4						4	Y
	Misuse of grinding wheel	People	Injury	Ensure grinding wheel is used for ferrous metal only	2	2	4	Post Notice "ferrous Metals Only"			2	2	4	Y
Portable Grinding Equipment														
	Electric Shock	People	Shock / Injury	Ensure electrical cables and connections are in	2	2	4						4	Y

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				good condition prior to use.										
	Damaged worn cutting / grinding discs	People	Injury	Discs to be replaced when found damaged/worn down or minimum diameter has been rea	2	2								Y
	Missing Guard or side handle	People	Injury	Ensure guard and side handle is fitted prior to use.	2	2	4							Y

- *Numbering guidance: a. New RA No. if it is a fresh case. b. Old RA No. with new date if no change is hazards. c. Old RA No. inserting Rev. No & new date if there are additional Hazards
- ** Refer RA Matrix (Sect.2 Table 1,2,3, of this Form for Hazards / Consequences Evaluation (Likelihood/Severity) to People, Environment and/or Property / Commercial aspects as applicable to arrive at ratings of (A) & (B).
- *** Refer Risk Level table (Sect.2 Table 4 of this form). .If results are either in yellow or red consider additional measures to mitigate the risk.
- ‘Contingency Plans’ to limit the impact of unplanned occurrences/ failure of control measures to be discussed and recorded in the section below.
- During review of the RA process, if scope for improvement of the documented HSE procedure for the operation/activity is identified, same should be recorded in the comments section below.

Contingency Plans :

Comments :

All control measures to be carried out prior to use

Signed:

Reviewer’s Comments:

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Signed: _____

Name / Position / Signature

Date

SECT 2: Risk Ranking Matrices & Risk Level Tables

TABLE 1 : - PEOPLE			(Severity of)Consequence-A				
			FAC: First Aid Case	LTI: Lost Time Incident	Hospital: Injury requiring Hospitalization or LTI >24hours	Perm Disability: Injury resulting in permanent disability	Fatality: Injury resulting in death
Likelihood Of Consequence)- B		Rating	1	2	3	4	5
	Happened several times per annum in a location/s (Very likely)	5	5	10	15	20	25
	Happened several times per annum within the company (Likely)	4	4	8	12	16	20
	Happened within our company at least once (Unlikely)	3	3	6	9	12	15
	Heard Within the industry (Highly unlikely)	2	2	4	6	8	10
	Never heard within the industry (Almost NIL chances)	1	1	2	3	4	5

TABLE 2: PROPERTY / COMMERCIAL			(Severity of)Consequence-A				
			GBP 10. Damage to property/equipment	GBP 50. Damage to property/equipment	GBP 100. Damage to property/equipment	GBP 500. Damage to property/equipment	GBP 1000 Damage to property/equipment
Likelihood Of Consequence)- B		Rating	1	2	3	4	5
	Happened several times per annum in a location/s (Very likely)	5	5	10	15	20	25
	Happened several times per annum within the company (Likely)	4	4	8	12	16	20
	Happened within our company at least once (Unlikely)	3	3	6	9	12	15
	Heard Within the industry (Highly unlikely)	2	2	4	6	8	10
	Never heard within the industry (Almost NIL chances)	1	1	2	3	4	5

TABLE 3 :	(Severity of) Consequence (To be defined)\#* - A
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RA - MATRIX FOR MOC			Negligible	Minor	Moderate	Major	Catastrophic
Likelihood Of Consequences-B		Rating	1	2	3	4	5
	Very likely	5	5	10	15	20	25
	Likely	4	4	8	12	16	20
	Unlikely	3	3	6	9	12	15
	Highly unlikely	2	2	4	6	8	10
	Almost NIL chances	1	1	2	3	4	5

Table 4: <u>Risk Levels</u>	Meaning	Action
1 - 7	Tolerable	Risk is acceptable and job can be undertaken. Consideration may be given for further reduction of risk if reasonably possible. However, in case value is above 4, continuous monitoring is required to ensure existing controls are maintained.
8 - 11	Moderate	Efforts are to be made to reduce the risk by placing additional controls with an aim to bring down Risk Level to Green zone.
12 - 25	Substantial	Efforts are to be made to reduce the risk to green/yellow rating by placing additional controls and taking appropriate action as defined above. However, If the final risk level is in the red zone then no job shall be undertaken. Until the final risk level is reduced so that it is no longer in the red zone the job shall not be undertaken."