

## RISK ASSESSMENT FORM

STRTRA-06

Dept. Name:	Engineering Workshop	RA no*:		Rev No.*		Date:	
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**Work / Activity Details:** . Use of Lathes, Milling Machine & Bench/Pillar Drills

**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 with existing controls	Likelihood** Rating (B) (Refer Table in Sect.2)	Risk Level** (A x B)	Additional Controls (if any)	Person Responsible	Agreed time	New Severity Rating(A1)	New Likelihood Rating(B1)	Residual Risk (A1 x B1)	Decision to
Use of Workshop Machinery	Not familiar with use of workshop Machinery	People	Injury	Persons not competent in use of workshop machinery are not permitted to operate machines.	3	3	9				3	2	6	Y
	Operation of machinery	People	Injury	PPE to be worn	3	3	9							
				Emergency stops to be tested prior to use	3	3	6							
				Guards to be fitted and in use	3	3	6							
	Cutting operations	People	Injury	Ensure tools have no defects and are sharp and fit for use.	3	3	6							
				Tools to be set at correct cutting height and secured in toolholders as designed	3	3	6							
	Build up of swarf (Sharp edges and hot) around tool and	People	injury	Swarf to be cleared away as required form immediate work area round the rotating tool or workpiece.	3	3	9				3	2	6	Y

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	surrounding area.			Work area to be cleaned at end of operations or working day.										
	Build up of Swarf flying around rotating tool or workpiece	People	Injury / Cuts	Swarf to be cleared away from tools and workpiece.	3	3	9				3	2	6	Y
	Burn from hot swarf	People	Injury	Cooling medium ( Water or Cutting Fluid) to be used as required.	3	2	6							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 :**

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**Comments :**

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**Signed:**

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**Date**

**Reviewer's Comments:**

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**Signed:**

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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/ship (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/ship (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 : RA - MATRIX FOR MOC			(Severity of) Consequence (To be defined)\#* - A				
			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

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	Highly unlikely	2	2	4	6	8	10
	Almost NIL chances	1	1	2	3	4	5

Table 4: Risk Levels	Meaning	Action
1 - 7	<b>Tolerable</b>	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	<b>Moderate</b>	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	<b>Substantial</b>	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.”