

THENJIWE SUPPLIES & REPAIRS

Reference Number	TSR/RA/001
Implementation Date	03.12.2018
Revision Number	0
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**TASK SPECIFIC RISK ASSESSMENT
ARC WELDING OPERATIONS**



Hazard, Risk, Environmental & Ergonomically Assessment

Contract Name		Task to be Performed	
List Risk Assessment Team Names	Training Required	Risk Assessment No.	
	General Safety Induction	Revision No.	0
	DSTI	Date of original issue	
	Operator Training	Date revised	
	Toolbox Talk (Specific)		

Assessment Matrix

Probability of Occurrence (P)	INJURY SEVERITY POTENTIAL (IS)	DAMAGE / LOSS SEVERITY	DURATION OF EXPOSURE	ERGONOMICS / ENVIRONMENT	HEALTH (H)	Probability of SEVERE INJURY / LOSS	DAMAGE / LOSS	DURATION OF EXPOSURE	ERGONOMICS / ENVIRONMENT	HEALTH (H)	Consequence (C)
Common Occurrence	Multiple Fatalities OR PERMANENT DISABILITIES	More than R 1 500 000	1<10> Days	Major	Major	5	5	5	5	5	30
Has Happened before	Fatal / Permanent Disability	R 300 000 to R 1 500 000	6<10> Hours	Serious	Serious	4	4	4	4	4	24
Could Occur	Moderate / Serious Injury	R 150 000 to R 300 000	3<6> Hours	Medium	Medium	3	3	3	3	3	21
Not likely	Lost Time Injury	R 15 000 to R 150 000	1<3> Hour	Minor	Minor	2	2	2	2	2	12
Practically Impossible	Minor injury – No Lost Time	Less than R 15 000	< 1 Hour	None	None	1	1	1	1	1	6

CURRENT RISK										REMEDIAL	RISIDUAL						ACTION		
Task Steps	HAZARD IDENTIFIED	RISK ASSOCIATED WITH HAZARD	P	IS	DS	ED	E	H	C	HOW IS HAZARD TO BE DEALT WITH	P	IS	DS	D	E	H	C	BY WHOM	DATE

1. Pre-use inspection	Inspection not done	can cause injuries, disability and damage to equipment.	3	3	2	3	2	3	16	Inspection to be done by a competent person. User of the welding machine to be trained on how to do the pre use inspection. Inspection registers to be signed off by a competent supervisor.	2	1	1	1	1	1	7		
	Register not filled in.	may result in an injury with disability.	3	2	2	3	2	2	14	Foreman to sign off the inspection register. Site HSE officer to do spot checks on the registers.	2	1	1	1	1	1	7		
2. Use of welding machine.	Welding machine used by incompetent employee	may cause injury, disability and damage to equipment.	3	2	2	3	2	2	14	Only trained employees are allowed to work with a welding machine. Welding machine not to be left unsupervised. Task to be supervised by a competent supervisor.	2	1	1	1	1	1	7		
	Employee injured as a result of an electric shock	can cause injury and disability.	3	3	2	3	2	3	16	Welding machine not to be used while standing in the water. Welding machine to be inspected before use and welding machine with poor connections and cables to be removed from site.	2	1	1	1	1	1	7		

	Employee burnt	can cause injury, disability	3	3	2	2	2	3	15	Employee to make use of the P.P.E provided, task to be supervised by a competent supervisor, only trained and competent employees to work with welding machine. All injuries to be reported to the site HSE officer.	2	1	1	1	1	1	7		
	Arc eyes	may cause injury and disability.	4	2	2	3	2	3	16	Employee to wear proper eye protection, all injuries to be reported to the site HSE officer. Task to be supervised by a competent supervisor.	2	1	1	1	1	1	7		
	Fire	may cause injury, disability, and property damage and ground and air pollution.	3	3	3	2	2	3	16	All flammable materials to be removed from area of work. Fire extinguisher to be close to area of work. Task to be supervised by a competent supervisor.	2	1	1	1	1	1	7		
	Cables fitted wrong way around	can cause injury, disability and equipment damage.	3	3	2	3	2	3	16	Only trained and competent employees to work with the welding machine. Task to be supervised by a competent supervisor.	2	1	1	1	1	1	7		
	Welding at heights	may cause injury, disability and equipment damage from the sparks	4	2	2	2	2	3	15	Area to be demarcated, fire watchers to be posted, task to be supervised by a competent supervisor	2	1	1	1	1	1	7		

3. Storage of welding machine.	Incorrect storage of welding machine may cause equipment damage.	may cause equipment damage.	3	1	2	2	1	1	10	Proper storage space for welding machine to be provided. Storage to be controlled by a trained and competent store man	2	1	1	1	1	1	7		
	Theft of welding machine	may cause property loss.	3	1	2	2	1	1	10	Welding machine not to be left unsupervised.	2	1	1	1	1	1	7		
4. Maintenance.	Defects not reported	may cause injury, disability and equipment damage.	3	2	2	2	2	2	13	All defects on the welding machine must be reported to the supervisor.	2	1	1	1	1	1	8		
	Defects repaired by an incompetent employee	may cause injury, disability and equipment damage.	3	2	2	2	2	2	13	Only trained and competent persons to repair the welding machine.	2	1	1	1	1	1	7		