



RISK ASSESSMENT-WELDING

Activity:	Welding				RA No.					
Location:	ABC				Date :					
Persons at Risk:	Welder technician, Piling Operatives / Site Operatives				Revision Status					
Equipment to be used:	Hard Hat, Safety Goggles, Ear Protection, High-Visibility Vest, Gloves, Steel-Toed Boots, Respirator/Mask, Welding PPE, Safety Harness, Safety Belt, Fire Extinguisher, Safety Signage, Chemical-Resistant Gloves, Lockout/Tag out Equipment, Fall Arrest System, Safety Netting									
Potential Hazards / Conditions considered (Tick Box)				Persons at Risk						
Fall From Height		<input checked="" type="checkbox"/>	Falling of Materials	<input checked="" type="checkbox"/>	Subcontractors	<input checked="" type="checkbox"/>	Public	<input type="checkbox"/>		
Electricity		<input checked="" type="checkbox"/>	Slips/Tripping	<input checked="" type="checkbox"/>	Employees	<input checked="" type="checkbox"/>	Visitors	<input type="checkbox"/>		
Personal protective equipment's (PPE)										
<input checked="" type="checkbox"/>	Safety Helmet	<input checked="" type="checkbox"/>	Respiratory / Breathing Apparatus	<input checked="" type="checkbox"/>	Gloves	<input checked="" type="checkbox"/>	Goggles	<input type="checkbox"/>	Full Body Safety Harness	
<input checked="" type="checkbox"/>	Safety Boots	<input checked="" type="checkbox"/>	Overalls	<input checked="" type="checkbox"/>	Masks	<input type="checkbox"/>	Ear Plugs/ Defenders	<input type="checkbox"/>	Others, if any	
Mandatory HSE requirements (Tick Box)										
<input checked="" type="checkbox"/>	Safety Induction	<input checked="" type="checkbox"/>	Proper PPE	<input checked="" type="checkbox"/>	Work Permit	<input checked="" type="checkbox"/>	Proper Tools/ Equipment'	<input checked="" type="checkbox"/>	Proper Barricade & Warning Sign in The Affected area	
<input checked="" type="checkbox"/>	Tool Box Talk	<input checked="" type="checkbox"/>	Safe Work Place	<input checked="" type="checkbox"/>	Proper Supervision	<input checked="" type="checkbox"/>	Pre-Task Briefings	<input type="checkbox"/>	Others, if any	
Risk Level: H (HIGH-Potential to cause death or permanent injury) M (MEDIUM –Potential to cause loss time injury) L (LOW- An injury treatable with First Aid)										
Likelihood (L)	Severity (S)	Class of risk (L*S)	LIKLI HOOD (L) High = 15-25 Medium = 07-14 Low = 01-06	RISK MATRIX					Note: 1. Risk assessment must be addressed to workers by work in charge before starting job. 2. Risk assessment is a continuous process hence to be reviewed depending on activity and risk involved	
Improbable	Negligible	High = 15-25		5	5	10	15	20		25
Remote	Minor	Medium = 07-14		4	4	8	12	16		20
Probable	Reportable	Low = 01-06		3	3	6	9	12		15
Occasional	Serious			2	2	4	6	8		10
				1	1	2	3	4		5
					1	2	3	4		5



RISK ASSESSMENT-WELDING

				SEVERITY (S)	
--	--	--	--	--------------	--

Sr.	Activity	Hazard	EVALUATION			Control Measures in place or to be implemented	RE-EVALUATION			Persons responsible for Implementation and Supervision.
			L	S	R		L	S	R	
1.	Welding	<ul style="list-style-type: none">• Burns from weld splatter• Fire• Arc Eye'• Fumes/ respiratory problems• Explosion	4	4	16	<ul style="list-style-type: none">• Hot works permit to be issued before commencement• All personnel not directly involved should be kept clear of operation (barriers to be erected by the Main Contractor)• Suitable PPE must be worn i.e. safety boots, gauntlets or gloves (not rubber), burning goggles, safety helmet, mask, and flame retardant overalls.• Mechanical soundness of welding equipment should be checked before use. Ensure the welding machine is properly earthed.• Welding area should be kept clean and dry.• Welding to be carried out by competent persons.• Hi-Viz vests are to be removed during burning operations due to increased fire risk (flame retardant overalls to have hi-viz bands) **Hi-viz to be re-worn as soon as the welding operation is completed**• CO2 Fire extinguishers on site (in date and at the place of work).• Welding operatives must wear full-face welding masks during welding operations.• Screens to be used wherever practicable.• Any other personnel near the welding operation must avoid direct visual contact with the welding (Screen to be erected during welding, positioned where practicable).• Welding to be carried out by competent persons.• Welders to wear vented/air-fed masks when stoving/ clutch welding in enclosed work areas• Ensure the welding area is free from flammable materials.• Welding to be carried out by competent persons.• CO2 Fire extinguishers to be available.• Flammable liquids.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians



RISK ASSESSMENT-WELDING

Assessed by (print name, date and Signatures):

Reviewed by (print name, date and Signatures):



HSE Documents