



# RISK ASSESSMENT-WELDING

<b>Activity:</b>	Welding					<b>RA No.</b>				
<b>Location:</b>	ABC					<b>Date :</b>				
<b>Persons at Risk:</b>	Welder technician, Piling Operatives / Site Operatives					<b>Revision Status</b>				
<b>Equipment to be used:</b>										
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						<b>Revision No.:</b>	<b>Revised Date:</b>			
						NA	NA			
<b>Potential Hazards / Conditions considered (Tick Box)</b>					<b>Persons at Risk</b>					
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"/>			
<b>Personal protective equipment's (PPE)</b>										
<input checked="" type="checkbox"/>	Safety Helmet	<input checked="" type="checkbox"/>	Respiratory / Berating 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	
<b>Mandatory HSE requirements (Tick Box)</b>										
<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	
<b>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)</b>										
<b>Likelihood (L)</b>	<b>Severity (S)</b>	<b>Class of risk (L*S)</b>	<b>LIKLI HOO D (L)</b>	<b>RISK MATRIX</b>						<b>Note:</b> 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			3	3	6	9	12	15	
Occasional	Serious			2	2	4	6	8	10	
		Low = 01-06		1	1	2	3	4	5	
					1	2	3	4	5	



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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"> <li>Burns from weld splatter</li> <li>Fire</li> <li>Arc Eye'</li> <li>Fumes/ respiratory problems</li> <li>Explosion</li> </ul>	4	4	16	<ul style="list-style-type: none"> <li>Hot works permit to be issued before commencement</li> <li>All personnel not directly involved should be kept clear of operation (barriers to be erected by the Main Contractor)</li> <li>Suitable PPE must be worn i.e. safety boots, gauntlets or gloves (not rubber), burning goggles, safety helmet, mask, and flame retardant overalls.</li> <li>Mechanical soundness of welding equipment should be checked before use. Ensure the welding machine is properly earthed.</li> <li>Welding area should be kept clean and dry.</li> <li>Welding to be carried out by competent persons.</li> <li>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**</li> <li>CO2 Fire extinguishers on site (in date and at the place of work).</li> <li>Welding operatives must wear full-face welding masks during welding operations.</li> <li>Screens to be used wherever practicable.</li> <li>Any other personnel near the welding operation must avoid direct visual contact with the welding (Screen to be erected during welding, positioned where practicable).</li> <li>Welding to be carried out by competent persons.</li> <li>Welders to wear vented/air-fed masks when stoving/ clutch welding in enclosed work areas</li> <li>Ensure the welding area is free from flammable materials.</li> <li>Welding to be carried out by competent persons.</li> <li>CO2 Fire extinguishers to be available.</li> <li>Flammable liquids.</li> </ul>	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



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Assessed by (print name, date and Signatures):

Reviewed by (print name, date and Signatures):

