



### Risk Assessment – Hot Works.

<b>Company:</b>	SES Engineering (Newark) Ltd	<b>Date:</b>	16.05.2022	<b>Review Date:</b>	16.05.2023	<b>Ref:</b>	SES/0017
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Operation:	Hot Works.			Persons at risk:	Employees, 3 <sup>rd</sup> parties		
HAZARD	Assessment			CONTROL MEASURES TO REDUCE THE RISK	Re-assessment		
	S	L	R		S	L	R
Electrocution.	4	4	16	Check equipment – cables, connections, and insulation. Use approved welders only and avoid areas of water. Always make a clean and safe working area. Switch off electricity supply when not needed.	4	1	4
Burns.	4	4	16	Make sure the operatives use the correct PPE e.g., gloves, welding mask, RPE, safety boots and overalls. Make sure the operator is fully trained in the use of the equipment. Always ensure a clean safe working area.	4	1	4
Inhalation of Fumes.	4	3	12	Make sure the work area is well ventilated especially in confined spaces. If natural ventilation is not available, operators must ensure they use filtration systems and breathing masks.	4	1	4
Fire.	4	4	16	Make sure you use the correct fire extinguisher that has been correctly tested. For areas of risk use a fire watcher to watch for fires starting and they must have the correct PPE. Remove any flammable substances from the working area. Use correct flashback arrester at bottle to avoid burn back. Check equipment for safety.	4	1	4
Damage to eyes.	3	5	15	Use correct eye protection, face protection. Use screens to protect 3 <sup>rd</sup> parties from the light source. Warn verbally people around risk.	4	1	4
COSHH.	4	3	12	All substances hazardous to health must be handled as directed by the manufacturer. Follow advice given by the manufacturers of the substance, with specific disposal bins and carriers to be used where necessary. Do not allow any substance to enter the ground or any watercourse nearby under any circumstances.	4	1	4

Likelihood →	Likely	Probable	Possible	Unlikely	Very unlikely
↓ Severity	(5)	(4)	(3)	(2)	(1)
Death (4)	20	16	12	8	4
Major Injury (3)	15	12	9	6	3
Minor Injury (2)	10	8	6	4	2
No Injury (1)	5	4	3	2	1

**KEY:** S = Severity

L = Likelihood

R = Risk rating

12-20 High risk
8-10 Medium risk
1-6 Low risk

**PPE Required:**

Hard hat	As necessary
High vis clothing & boots	Y
Eye/ ear protection	Y
Suitable gloves	Y
Respiratory equipment	Y
Safety harness	As necessary

Risk assessment to be reviewed every 12 months or following an accident / incident.