

RISK ASSESSMENT RECORD REF NO. RM46

HAZARD / WORK ACTIVITY ASSESSED

Pipe Soldering

Hazard (something with the potential to cause harm)	Risk	Who may be harmed				ned	Control Measures		Risk rating after control			
	Severity	Probability	Risk	Operator	Employee	Visitor	Public	Sub-cont		Severity	Probability	Risk
Use of Blow Torch - Fire	4	2	8		X				In order to significantly reduce the risk of fire, where possible the area where the above ground copper plumbing is to be completed should be measured and the pipework cut to size, subsequently this pipework should be soldered in a well ventilated area outside the building away from any combustible materials. The pipework should then be installed using appropriate fittings. If there is no alternative than to carry out the soldering works in-situ, clear the work area of flammable / combustible materials. Portable CO2 fire extinguisher to be kept within reach during works. Use only Auger issue equipment. Physical checks of all equipment to be undertaken prior to starting work, check for lose connections, bare wires, seals, and threads ensuring equipment operating correctly. Water spray bottle to hand for damping down prior to starting work. Any smouldering to be dampened down by water spray immediately. Heat mat must be used to protect surfaces, avoid catching light. Handle compressed gas cylinders safely, always follow correct use and storage procedures. Cooling off period; it is essential that you follow Auger's hot works checklist and ensure the workplace is checked 30 minutes after completion of work for remaining fire hazards and ignition sources. Liaison with occupants to ensure there is no risk to third parties and that they cannot affect the safety of our operatives.	4	1	4
Burns	3	3	9		x				Operatives to be trained in basic RoSPA approved fire safety and hazards associated with soldering. All necessary PPE must be worn at all times, especially heat resistant gloves when handling hot pipes and long sleeves / heat resistant apron to protect from sparks and full eye / face protection.	2	2	4

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Inhalation / absorption of	2	3	6	х		Refer to COSHH assessments on solders/flux to be used and fumes emitted by the	2	2	4
hazardous substances / flux						process. Ensure work area is well ventilated prior to starting work. All necessary PPE to			
fumes						be worn including respiratory protection. Follow safe handling, storage and disposal of			
						items as per COSHH assessment.			
		1							

SAFETY METHOD STATEMENT

- 1. PPE should consist of; eye protection, hearing protection, heat resistant apron, safety boots, heat resistant gloves, respiratory protection, heat resistant mat/fire cloth
- 2. Always ensure work area is well ventilated
- 3. Equipment checks to be undertaken prior to starting work
- 4. If working in a tight space, take extra precaution
- 5. Do not weld or cut near any flammable or combustible materials
- 6. Use only auger approved and supplied equipment and materials
- 7. Place heat resistant mat / fire cloth beneath and behind whatever you are soldering so that surrounding area does not catch fire
- 8. Have a spray bottle of water to hand when soldering copper pipe, wet down area you will be soldering before work and use it as a backup if anything begins to smoulder, wet the area back down when finished to prevent residual heat causing a fire
- 9. Appropriate fire extinguisher within reach of work area
- 10. Do not leave blow torch unattended and disconnect after use
- 11. Handle compressed gas cylinders safely, always follow proper use and storage procedures
- 12. Keep your work area free from trip hazards to aid ease of escape
- 13. Keep all other people at a safe distance from welding and cutting activity
- 14. Ensure first aid kit stocked and nearby

	Date of first issue:	12/03/2019	Sharon Kaye					
	Content collaborators:	Senior engineering team & MD						
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Health & Safety	Revision period (months)	12						

Severity			Probability	Risk Rating					
1	No Injury, property damage	1	Very Unlikely	Countie V Dechability 1 to 5	Low	Y – acceptable risk, work can start			
2	Minor Injury	2	Unlikely	Severity X Probability = 1 to 5	LOW				
3	+3 Day Absence	3	Likely	Country V Dishahiling 640.44	Mod	Marchine and further apprideration			
4	Major Injury	4	Very Likely	Severity A Probability = 0 t0 14	Med	7 Of M – may need further consideration			
5	Death	5	Virtually Certain	Severity X Probability = 15 to 25	High	N – Unacceptable risk Do not start work			

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