

## Risk Assessment

### 1.0 Risk Assessment Details

1.1 Risk Assessment Number	0000000041
1.2 Risk Assessment Date	05/11/2024
1.3 Risk Review Date	05/11/2025
1.4 Risk Assessment Author	Keith Ambrose
1.5 Project/Contract	Using Oxyacetylene
1.6 Start Date	24/09/24
1.7 Expected Job Duration	Ongoing
1.8 Client Contact	Phil Collins
1.9 Description	Risk assessment covering the use of Oxyacetylene
1.10 Site Address	Various

### 2.0 Signatures

	Name	Title	Signature	Date
Document Author	Keith Ambrose			05/11/2024

#### Data Protection Statement

The information and data provided herein applies only to the contract for which it was written, it shall not be duplicated, disclosed or disseminated by the recipient in whole or in part for any purpose whatsoever without the prior written permission from HS Direct..

It is the duty of all employees to observe the following Risk Assessment framed to provide a code of good practice and conduct with the object of preventing accidents. At all times employees must work in a safe manner both to prevent personal injury to themselves or to other personnel.

### 3.0 Individuals or Groups Affected By This Assessment

Groups Affected
Employees
Members of Public
Sub Contractors

Main Contractor
Treadfirst, 4 Martins Road, Chilton Industrial Estate, Sudbury,

### 4.0 Hazards and Control Procedures :

Pre-Control			Hazard: Combustible Materials	Residual Risk		
P	S	RR		P	S	RR
			Burns, Material damage.			
4	3	12	<b>Control Procedures</b>	3	3	9
			After use the area must be cleared of any combustible materials.			
			Ensure all combustible material is kept away from ignition sources.			

Pre-Control			Hazard: Particles and Debris Ejected From Work Equipment or Tools	Residual Risk		
P	S	RR		P	S	RR
			Risk of injury/ill-health due to dust/particles being ejected during the processing activities.			
4	3	12	<b>Control Procedures</b>	3	3	9
			Eye protection supplied to BS EN 166 & relevant to the work activity hazard			
			Eye wash station provided for first aid treatment for debris/dust etc. in eyes			
			To include hot/cold water, soap, means of drying, well ventilated and kept in an orderly condition			

Pre-Control			Hazard: High Levels of Fume	Residual Risk		
P	S	RR		P	S	RR
			Respiratory irritation, Lung damage, Eye damage, Fire, Explosion.			
4	4	16	<b>Control Procedures</b>	2	4	8
			Ensure adequate ventilation is provided when working with the hazardous material.			
			Where the process creates fumes make sure that appropriate face masks are worn and that others in the area are aware. Provide adequate ventilation or local exhaust ventilation.			

Pre-Control			Hazard: Solder Fumes	Residual Risk		
P	S	RR		P	S	RR
			Lung damage, illness			
4	3	12	<b>Control Procedures</b>	2	3	6
			All staff will follow instructions on safe working practices, including the correct use and adjustment of control measures such as local extraction ventilation.			
			As exposure to rosin-based solder flux fumes may be hazardous to health, their use is subject to the Control of Substances Hazardous to Health Regulations (COSHH). A suitable assessment of the risks to health must be carried out.			
			Ensure that adequate ventilation is available prior to carrying out soldering.			
			When inhaled, rosin-based solder flux fume can lead to occupational asthma or make existing asthmatic conditions worse. The fume can also cause irritation to the eyes and upper respiratory tract.			
			When required, all staff will wear protective equipment such as respirators. Suitable gloves, protective clothing and eye protection may also be appropriate for certain work where splashing of fluxes etc can occur.			
			Where reasonably practicable, exposure should be prevented, or failing that, adequately controlled.			

Pre-Control			Hazard: Gases or Vapours	Residual Risk		
P	S	RR	Respiratory irritation, Lung damage, Fire, Explosion.	P	S	RR
4	4	16	<b>Control Procedures</b>	1	4	4
			A suitable COSHH assessment must be carried out for all substances hazardous to health.			
			Connection of pressure systems is to be undertaken by the main clients			

Pre-Control			Hazard: Welding equipment	Residual Risk		
P	S	RR	Fire, burns, electric shock, fume, gas leaks, asphyxia.	P	S	RR
4	4	16	<b>Control Procedures</b>	1	4	4
			Air monitoring is carried out to confirm that the LEV controls in place are effective			
			Equipment settings must be as recommended by manufacturer for specific application.			
			Health surveillance programme is in place relevant to the hazards in the workplace			
			Local Exhaust Ventilation Provided For The Task			
			Operative must be deemed competent to use specific equipment.			
			Where weld quality is specified, personnel must be able to demonstrate certification of competency.			

Pre-Control			Hazard: Hot Surfaces	Residual Risk		
P	S	RR	Risk of injury (skin burns etc.) due to coming into contact with hot surfaces (e.g. Iron)	P	S	RR
4	3	12	<b>Control Procedures</b>	1	3	3
			Protective screens provided and used where appropriate.			
			Specific first aid treatment for burns is provided as part of the first aid provisions			

Pre-Control			Hazard: Respiratory Irritant	Residual Risk		
P	S	RR	Fettling produces respirable crystalline silica, leading to respiratory issues	P	S	RR
4	3	12	<b>Control Procedures</b>	1	3	3
			All staff are encouraged to report any health concerns to their line manager			
			Check the airflow and air quality to air-fed RPE at least once every three months			
			Fit testing carried out			
			Health surveillance programme is in place relevant to the hazards in the workplace. Records of this are kept			

Pre-Control			Hazard: Ventilation	Residual Risk		
P	S	RR	Fatigue, Drowsiness - Lack of oxygen, Fire and explosion due to ignition of vapours and spilled liquid fuels	P	S	RR
4	3	12	<b>Control Procedures</b>	1	3	3
			Ensure good natural ventilation when working in trenches.			
			Ensure LEV is in operation prior to starting the process.			
			Ensure the extraction unit is checked prior to use to make sure it is not damaged or faulty.			
			Extraction unit must be inspected every 14 months in accordance with the COSHH Regulations 2002.			

Pre-Control			Hazard: Welding radiation damaging eyes	Residual Risk		
P	S	RR	Blindness, permanent sight damage, flashes	P	S	RR
4	3	12	<b>Control Procedures</b>	1	3	3
			Ensure welding masks are used to protect the eyes from welding flashes.			
			Ensure welding screens are positioned to protect Others from Arc Eye exposure.			
			Flame proof overalls must be worn over boots to prevent hot metal splashes entering boots.			

Pre-Control			Hazard: Lone Working	Residual Risk		
P	S	RR	Dangerous situations	P	S	RR
4	3	12	<b>Control Procedures</b>	1	3	3
			All staff are accounted for at all times during working hours.			
			All staff will carry mobile phones and keep regular contact with foremen and managers.			
			Appropriate First Aid Kit and Training available			
			End of task / shift contact.			
			Lone Worker risk assessment is carried out and appropriate control measures applied accordingly			
			Lone working policy in place			
			Periodic site visits to lone workers will be carried out.			
			Periodic telephone contact with lone workers.			
			When working on site the lone worker must sign in and make the site management aware of their presence and the location of the task to be carried out.			

Pre-Control			Hazard: Operator Fatigue	Residual Risk		
P	S	RR	Accident	P	S	RR
4	2	8	<b>Control Procedures</b>	1	2	2
			If the operative feels the onset of fatigue they must either stop work or get another operative to replace them.			
			Operators must take regular rest breaks to prevent mistakes caused by fatigue.			

Pre-Control			Hazard: Fire	Residual Risk		
P	S	RR	Risk of injury caused by naked flames, faulty electrical equipment, arson, explosion or chemicals.	P	S	RR
4	1	4	<b>Control Procedures</b>	1	1	1
			A fire risk assessment has been carried out denoting the fire hazards & appropriate control measures			

Pre-Control			Hazard: Dermatitis	Residual Risk		
P	S	RR	Dermatitis	P	S	RR
4	1	4	<b>Control Procedures</b>	1	1	1
			All staff must carry out regular self checks for early signs of any suspected skin problems. Any that are found must be reported to your supervisor. Periodic checks will also be carried out by supervisors and recorded.			
			Barrier creams and after work creams should be used to protect against skin problems.			

Pre-Control			Hazard: Inhalation of hazardous dust, fumes, mists or vapours	Residual Risk		
P	S	RR	Ill-health	P	S	RR
4	1	4	<b>Control Procedures</b>	1	1	1
			Appropriate respiratory protective equipment is provided and used by relevant staff.			
			COSHH assessments have been communicated to relevant employees			
			Ensure good natural ventilation and / or use Local Exhaust Ventilation to remove fume from the work area.			
			If working outside a building, then face fit tested RPE must be worn when using this equipment. If working inside, then appropriate face fit tested RPE must be used if local exhaust ventilation is not effective.			
			If working outside, RPE must be provided to protect operators from fumes generated by the process. If working inside, RPE must be provided if local exhaust ventilation is not fully effective against operator exposure to fumes.			
			Prevent inhalation of metallic dust by use of face fit dust mask (BS EN 149 FFP3 mask) and regular use of H rated vacuum cleaner.			
			When RPE is required to be worn. It must be face fit tested by a competent persons and a certificate provided.			

Probability (P)	Severity (S)	Risk Ranking (RR = P * S)
1 Highly Unlikely	1 Trivial	< 1 - No Action Required
2 Unlikely	2 Minor injury	> 2 - Low Priority
3 Possible	3 Over 3 Day injury	> 8 - Medium Priority
4 Probable	4 Major injury or condition	>10 - High Priority
5 Certain	5 Incapacity or Death	>15 - Urgent Action Required

### 5.0 Required PPE



Flame retardent overalls



Protective Footwear



Respirator



Welding Visor

### Sign Off Sheet

I have read and understood the contents of this Risk Assessment.

Anything I did not understand has been explained to me to my satisfaction.

I agree to follow the Risk Assessment and understand that any control procedures are provided for my safety and the safety of others.

Print Name

Signed

Date

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**Dynamic Risk Assessment**

Please note a copy of this Dynamic risk assessment must be returned to Head office complete with signatures.  
 Tick items covered by the risk assessment, then list on the table below hazards and controls for the additional items involved on this job.

HAZARD	HAZARD	HAZARD	HAZARD	HAZARD	HAZARD	HAZARD	HAZARD
Access / Egress	Adverse Weather	Asbestos	Biological	Excavations	Exposure to Gas / Gases	Movement of Vehicles	
Chemicals	Confined Space	Dusts / Particles	Electrical	Other Contractors	Limited Headroom	Moving Machinery	
Lone Working	Fire	Fumes	Lighting	Flooding	Noise	Scaffold	
Work at Height	Slips, Trips or Falls	Extreme Temperatures	Demolition Works	Work Near Water	Vibration	Wastes	
Uneven Surfaces	Use of Ladders / Stepladders	Ventilation	Vermin / Weils Disease	Overhead Cables	Hidden Services	Manual Handling	

**ADDITIONAL TASK(S) OR HAZARDS NOT COVERED BY THE ORIGINAL RISK ASSESSMENT**

Dynamic Risk Assessment (to be completed if a new significant hazard is identified when commencing work on site)								
Additional Hazards identified	Injury risk identified eg cuts, burns etc	Control measure adopted	Likelihood (L)	Severity (S)	Risk ranking (LxS)	Proceed (Y/N)	Supervisor signature	Client signature

- 15 - 25 = High Risk - STOP - advise your supervisor that the risk is high and seek further advice.
- 8 - 12 = Medium Risk - CAUTION proceed but take extra precautions
- 1 - 6 = Low Risk - PROCEED with task maintaining controls