



## General Risk Assessments

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# General Risk Assessments

Prepared by Nick Brion  
Complete Health & Safety Ltd  
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Shergill Cottage  
One Pin Lane  
Farnham Common  
Slough  
Berkshire  
SL2 3QS



# General Risk Assessments

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# General Risk Assessments

## 1 Introduction

These are the general risk assessments relating to the key activities carried out by the Company. They are to be used as a general reference when undertaking site work to ensure that general hazards are documented, together with risk ratings before and after controls have been implemented, and to ensure that the general control measures are implemented. They are to be used in conjunction with the site specific risk assessment.

The management will ensure that employees and self employed sub-contractors are made aware of the significant findings of the risk assessments and the general precautions to eliminate or reduce the level of risk to the lowest possible level. A copy of the general risk assessments will be available in the vans for easy reference.

### Definitions

Hazard	Hazard is something with the potential to cause harm (eg electricity, working at height, chemicals, vehicles)
Risk	Combination of the likelihood and consequence of a specified hazardous event occurring.
Control Measures	The measures necessary to eliminate or reduce the level of risk
Risk Rating Without Controls	Level of risk before any control measures are implemented
Risk Rating With Controls	Level of risk after control measures have been implemented

### Determining the Risk Rating (See Risk Assessment Tables)

Risk Rating = Likelihood (of the hazard occurring) x Potential Severity (of the loss)	
Likelihood (L)	The likelihood of harm occurring as result of the hazard:- 1 = Very unlikely 2 = Unlikely 3 = Possible 4 = Very likely 5 = Certain
Potential Severity (S)	The potential severity of harm caused:- 1 = Injury, no time off 2 = Injury, time off 3 = More than three days off 4 = Long term absence 5 = Death
Risk Rating (R)	Low = less than 7 Med = between 8 & 14 High = greater than 15



## General Risk Assessments

<b>2 Buried Services</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Contact with electricity resulting in shock or burns	Operatives	3	5	High	<ul style="list-style-type: none"> <li>Planning to avoid known services by obtaining plans from owners who may have services in the area.</li> <li>Use of safe digging techniques: trial holes by hand &amp; no mechanical digging with 500mm of known services.</li> </ul>	1	5	Low
Contact with sewerage containing unknown chemicals and biological hazards such as Weil's Disease	Operatives, general public	3	5	High	<ul style="list-style-type: none"> <li>Studying plans (sometimes with the owner) on site, tracing with cable and pipe locating devices, marking the location of suspected routes of services in conjunction with a study of street furniture (manhole covers, meter housings) and disturbed surfaces (reinstatement). Personnel should not wear synthetic clothing.</li> </ul>	1	5	Low
Rupture of liquid or gas fuel pipelines with risk of ignition, fire and explosion Rupture of hazardous gas or liquid pipelines (toxic, corrosive, flammable)	Operatives, general public	3	5	High	<ul style="list-style-type: none"> <li>Excavating for suspected location of services by trained persons using safe digging techniques and marking on the surface the true location.</li> </ul>	1	5	Low
Damage to telemetry (eg telephone or fibre optic cables) (costly but unlikely to be injurious)	Operatives	3	2	Low	<ul style="list-style-type: none"> <li>Subsequent mechanical excavation or use of no-dig technology supervised by experienced banksmen to identify further evidence of undiscovered services, finally exposing them safely by hand when within 500mm of the suspected service.</li> </ul>	2	2	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Management of Health &amp; Safety at Work Regulations 1999</li> <li>Construction (Design and Management) Regulations 2015</li> <li>Workplace (Health, Safety and Welfare) Regulations 1992</li> </ul>								
<b>Managerial / Supervisory</b> <ul style="list-style-type: none"> <li>Ensure site survey undertaken before work commences to establish site specific risks</li> <li>Prepare safe system of work and risk assessment before work commences</li> <li>Ongoing liaison with person in control of premises and other contractors.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>Operatives to undertake Induction training, as required.</li> </ul>								



## General Risk Assessments

<b>3 Lifting Operations</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Equipment overturning/failing	Operatives, general public	3	5	High	<ul style="list-style-type: none"> <li>The organisation and control of all lifting operations to be under the responsibility of a competent and experienced person.</li> <li>Matters to be considered will include access for the lifting equipment, ground conditions, weather restrictions, overhead restrictions, proximity of lifting equipment to loading position, loads to be within safe working load of lifting equipment, thorough examination certificate for lifting equipment to be up to date, test certificates for slinging equipment to be up to date, competency of lifting equipment operators and signaller/slinger to be approved.</li> <li>Monitor lifting equipment operations whilst lifting.</li> <li>Competent person to organise and take responsibility for the lifting operation.</li> <li>Site survey to highlight presence of overhead electrical cables which could be rerouted/removed. Otherwise lifting equipment not to operate within distance decided by controller of lifting operations in liaison with electricity supplier (6 metre minimum).</li> <li>Site survey to highlight other obstructions like buildings/trees and suitable precautions taken to avoid striking.</li> </ul>	1	5	Low
Materials falling during lifting operations	Operatives, general public	3	5	High	<ul style="list-style-type: none"> <li>Loads to be slung by competent slingers who will ensure stability and security of loads. All lifting gear to be examined before use and to hold six monthly test certificate.</li> <li>Slinger/signaller to have clear communication with the lifting equipment operator at all times using signals or radio contact.</li> <li>As far as practicable prevent people from entering area below a suspended or moving load.</li> <li>lifting equipment and lifting gear must be examined and tested as prescribed by the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER Regulations).</li> <li>The equipment must be maintained in an efficient state, working order and good repair.</li> <li>As far as the construction of the lifting equipment permits it should be inspected regularly and at least once a week by the operator or other competent person in accordance with manufacturers' instructions.</li> </ul>	1	5	Low



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<b>3 Lifting Operations</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
					<ul style="list-style-type: none"> <li>• All loads to be lifted to be within the safe working load of the lifting equipment and its accessories.</li> </ul>			
Injury to person being lifted by lifting equipment	Operatives, general public	3	5	High	<ul style="list-style-type: none"> <li>• Operation to be planned by competent person following regulation 5 of LOLER Regulations.</li> </ul>	1	5	Low
<p><b>Relevant legislation and sources of information</b></p> <ul style="list-style-type: none"> <li>• Lifting Operations and Lifting Equipment Regulations 1998</li> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Health and Safety (Safety, Signs and Signals) Regulations 1996</li> <li>• Electricity at Work Regulations 1989</li> <li>• BS 7121 Code of Practice for safe use of cranes: Part 1</li> <li>• GS6 Avoidance of danger from overhead electrical lines</li> <li>• PM16 Eyebolts</li> </ul>								
<p><b>Managerial / Supervisory</b></p> <ul style="list-style-type: none"> <li>• Organisation and control prior to and during all lifting operations.</li> <li>• Method statements to include details of how all lifting operations are organised/controlled on site.</li> </ul>								
<p><b>Training</b></p> <ul style="list-style-type: none"> <li>• Operation of lifting equipment and slinging of loads.</li> <li>• Signalling.</li> </ul>								



## General Risk Assessments

<b>4 Work at Height</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Falls from height	Operatives	3	5	High	<ul style="list-style-type: none"> <li>• Work off suitable guarded platform ie scaffolding, scaffold towers,</li> <li>• Provision of fully boarded scaffold to roof edges.</li> <li>• Provide safety nets or crash decks or, if not feasible, use safety harnesses securely anchored with rescue provision.</li> <li>• Installation of temporary guard rails on open edges.</li> <li>• Suspend work in inclement weather</li> <li>• Use of suitable secure roof ladders, along with edge protection – see risk assessment for roof ladders</li> <li>• Only use ladders for access – see risk assessment for ladders</li> <li>• Only use step ladders for short duration, light work and when it is not practicable to use towers etc – see risk assessment for step ladders</li> <li>• See risk assessments for Towers</li> <li>• See risk assessments for work on fragile roofs</li> </ul>	1	5	Low
Falls through fragile surfaces (ie canvas material)	Operatives	3	5	High	<ul style="list-style-type: none"> <li>• Fragile surfaces – either cover with suitable material or install temporary barriers to prevent workers from stepping on fragile surfaces</li> <li>• Use of harnesses connected to a suitable anchor point to either prevent person getting near fragile surface, or to act as fall arrest in the event of a fall through a fragile surface</li> </ul>	1	5	Low
Falling materials	Operatives, other workers, general public	4	5	High	<ul style="list-style-type: none"> <li>• Prohibit work below using barriers etc.</li> <li>• Use of brick guards, fans, netting etc on scaffolding, particular over busy areas of the site</li> <li>• Hard hats to be worn by all persons working at ground level</li> </ul>	1	5	Low
Unauthorised access	General Public	3	5	High	<ul style="list-style-type: none"> <li>• Ideally remove ladders to scaffolding, otherwise board up</li> <li>• In high risk areas, ensure scaffolding is alarmed with suitable warning signs</li> </ul>	1	5	Low
Manual handling	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>• Use mechanical handling where possible (ie use of hoist)</li> <li>• Deliver close to the work area and provide assistance.</li> </ul>	2	3	Low
Sunburn & Dehydration	Operatives	4	4	High	<ul style="list-style-type: none"> <li>• Encourage workers to cover up exposed parts of their body and head as much as possible</li> <li>• Provision of suncream</li> <li>• Adequate supply of drinking water on site</li> <li>• Rest breaks out of the sun</li> </ul>	2	3	Low



## General Risk Assessments

<b>4 Work at Height</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Cold weather	Operatives	4	4	High	<ul style="list-style-type: none"> <li>• Supply of suitable clothing and gloves for cold, wet conditions</li> <li>• Rest breaks in warm, dry area</li> </ul>	2	3	Low
Lightning Strike	Operatives	3	5	High	<ul style="list-style-type: none"> <li>• Worker to cease work and come down from roof if there is an electrical storm in the vicinity</li> </ul>	0	0	Nil
Excessive Wind	Operatives	3	5	High	<ul style="list-style-type: none"> <li>• Worker to cease work and come down from roof if the wind is excessive</li> </ul>	0	0	Nil
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Manual Handling Regulations 1992</li> <li>• Work at Height Regulations 2005</li> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Lifting Operations and Lifting Equipment Regulations 1998</li> <li>• HSG 33 Health and safety in roofwork</li> </ul>								
<b>Managerial / Supervisory</b> <ul style="list-style-type: none"> <li>• Risk assessments by management/fitters.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• General working at height requirements / roof work.</li> </ul>								





## General Risk Assessments

<b>5 Work in Occupied Premises</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Injury from third party activities	Operatives	3	2	Med	<ul style="list-style-type: none"> <li>Ensure all parties working on a site consult and co-operate with each other</li> <li>Awareness of uncontrolled risks by others</li> <li>Treat all electrical systems as live unless assurance has been given by a competent electrician that an electrical system is isolated</li> <li>Report hazardous situations to manager of site or own manager</li> <li>Wear safety footwear, helmets</li> </ul>	1	2	Low
Injuries to third parties	Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>Comply with safe systems of work and risk assessments</li> <li>Abide by Site Rules, H&amp;S Plan, Signs etc</li> <li>Co-operate with management of the site and follow any reasonable instructions</li> <li>Report hazardous situations to manager of site or own manager</li> <li>Good housekeeping</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Management of Health &amp; Safety at Work Regulations 1999</li> <li>Construction (Design and Management) Regulations 2015</li> <li>Workplace (Health, Safety and Welfare) Regulations 1992</li> </ul>								
<b>Planning</b> <ul style="list-style-type: none"> <li>Exchange information with persons in control premises to ensure both parties have full knowledge of hazards and risks, areas of demarcation, areas of responsibility etc.</li> <li>Details of existing services to be obtained before work commences</li> </ul>								
<b>Managerial / Supervisory</b> <ul style="list-style-type: none"> <li>Ensure site survey undertaken before work commences to establish site specific risks</li> <li>Prepare safe system of work and risk assessment before work commences</li> <li>Ongoing liaison with person in control of premises and other contractors.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>Operatives to undertake Induction training, as required.</li> </ul>								



## General Risk Assessments

<b>6 Carpentry &amp; Joinery Work</b>									
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls			
		L	S	R		L	S	R	
Vibration White Finger (VWF)	Operatives / Other workers in vicinity	4	3	Med	<ul style="list-style-type: none"> <li>▪ Provide a system for monitoring the health of Operatives.</li> <li>▪ Use modern well-maintained equipment, keep hands warm, avoid smoking.</li> <li>▪ Information on equipment vibration levels and maximum exposure times to be available on site</li> </ul>	2	3	Low	
Dust	Operatives / Other workers in vicinity	4	3	Med	<ul style="list-style-type: none"> <li>▪ Use a vacuum cleaner instead of sweeping, provide hoses and extraction units to woodworking machinery, wear masks and goggles in accordance with any assessment carried out under COSHH.</li> </ul>	2	3	Low	
Manual handling	Operatives	4	3	Med	<ul style="list-style-type: none"> <li>▪ Use mechanical handling where possible, provide training, install stairs early, deliver close to the work area, provide assistance and trolleys or wheelbarrows.</li> <li>▪ Wear safety footwear and suitable gloves.</li> </ul>	2	3	Low	
Noise induced hearing loss	Operatives / Other workers in vicinity / General Public	3	1	Low	<ul style="list-style-type: none"> <li>▪ Job rotation for noisy operations and provision of suitable hearing protection.</li> <li>▪ Carry out work in a separate area to other workers.</li> </ul>	2	1	Low	
Electricity	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Inspection and maintenance of site electrical distribution.</li> <li>▪ User inspection of tools, careful siting of leads, use of 110 Vac tools, preference given to battery tools.</li> </ul>	1	5	Low	
Slips, trips and falls	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>▪ Regular waste removal and responsibility for daily cleaning.</li> <li>▪ Good cable management.</li> <li>▪ Use of purpose made hop ups or access equipment.</li> <li>▪ Suitable none slip footwear.</li> </ul>	1	4	Low	
Nails	Operatives / Other workers in vicinity	3	2	Med	<ul style="list-style-type: none"> <li>▪ Removal of protruding nails.</li> <li>▪ Safety footwear with midsoles to be worn.</li> </ul>	1	2	Low	
Ergonomics	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Careful design of task and selection of PPE, eg bump caps.</li> <li>▪ Provision of suitable tooling, eg electric planers.</li> </ul>	2	3	Low	
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Control of Substances Hazardous to Health Regulations 2002</li> <li>• L114: Safe use of woodworking machinery</li> <li>• HS(G) 83: Training woodworking machinists</li> <li>• HS(G) 88: Hand–arm vibration</li> </ul>									



## General Risk Assessments

<b>6 Carpentry &amp; Joinery Work</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<ul style="list-style-type: none"> <li>• CRR73: Dust and noise in the construction process</li> <li>• WIS1: Wood dust: hazards and precautions</li> <li>• WIS13: Noise at woodworking machines</li> <li>• WIS15: Safe working at woodworking machines</li> <li>• British Woodworking Federation Health and Safety Guide, Construction Industry Press.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Manual handling</li> <li>• Safe use and inspection of machinery (see L114 referred to above).</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• Regular monitoring of housekeeping and fall prevention measures, imported or DIY woodworking machinery, eg circular bench saws without a riving knife used for ripping.</li> </ul>								
<b>Recommendations</b> <ul style="list-style-type: none"> <li>• If fine dust is produced, details of ventilation and PPE are required. Prevention of unauthorised use of bench machines.</li> </ul>								



## General Risk Assessments

<b>7 Use of Portable Electrical Equipment</b>									
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls			
		L	S	R		L	S	R	
Noise	Operatives / Other workers in vicinity / General Public	3	2	Low	<ul style="list-style-type: none"> <li>• Use well maintained equipment.</li> <li>• Use correct equipment for the job.</li> <li>• Enforce wearing of carefully selected ear defenders.</li> <li>• Separate other workers and post ear protection zone signage</li> </ul>	2	2	Low	
Injury from the toolbit	Operatives / Other workers in vicinity	3	4	Med	<ul style="list-style-type: none"> <li>• Use the appropriate tool for the job</li> <li>• Ensure appropriate guarding is fitted on certain tools.</li> <li>• Ensure regular maintenance and cleaning undertaken</li> <li>• Wear eye protection.</li> <li>• Disconnection from the supply when changing or adjusting the toolbit.</li> </ul>	2	4	Med	
Work related upper limb disorders	Operatives	3	2	Low	<ul style="list-style-type: none"> <li>• Ergonomic design of task, eg preassembly to avoid repetitious fixing with poor posture.</li> <li>• Good lighting.</li> <li>• Good quality access equipment.</li> </ul>	2	2	Low	
Fire/explosion/electrocution	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>• Use battery powered tools.</li> <li>• Use 110v equipment.</li> <li>• Regular maintenance and connection to a suitably protected supply.</li> <li>• Prohibit use in explosive or flammable atmosphere.</li> <li>• Scheme of test and inspection (ie PAT Test), including user inspection of tools, leads and any transformers or distribution boxes.</li> <li>• Tools to be earthed or double insulated.</li> <li>• Procedure for reporting damage and obtaining replacement tools.</li> </ul>	1	5	Low	
Unauthorised use	Operatives	3	5	High	<ul style="list-style-type: none"> <li>• Restrict use to persons with sufficient maturity and never leave them unattended.</li> </ul>	1	5	Low	
Vibration White Finger (VWF)		3	4	Med	<ul style="list-style-type: none"> <li>• Provide system for monitoring health of Operatives.</li> <li>• Use modern well maintained equipment, keep hands warm, avoid smoking.</li> </ul>	1	4	Low	
Dust	Operatives	4	3	Med	<ul style="list-style-type: none"> <li>• Damp down or use a vacuum cleaner instead of sweeping, wear masks and goggles in accordance with any assessment carried out under COSHH.</li> </ul>	2	3	Low	
Trips and Falls	Operatives / Other workers in vicinity /	3	4	Med	<ul style="list-style-type: none"> <li>• Leads and extension cables to be routed so as to minimise likelihood of trips.</li> <li>• Wear suitable non slip footwear</li> </ul>	1	4	Low	



## General Risk Assessments

<b>7 Use of Portable Electrical Equipment</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
	general public							
<b>Physical</b> <ul style="list-style-type: none"> <li>• All equipment found to be defective will be switched off and reported immediately</li> <li>• Visual inspection of equipment before use</li> <li>• Only moulded socket holders are to be used</li> </ul>								
<b>Managerial / Supervisory</b> <ul style="list-style-type: none"> <li>• Monitoring of maintenance and use of equipment</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Operatives will be trained in the precautions and safe use of electrical equipment</li> </ul>								



## General Risk Assessments

<b>8 Use of Hand Tools</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Injury from the tool or material displaced by the use of the tool,	Operatives / Other workers in vicinity / General Public	3	3	Med	<ul style="list-style-type: none"> <li>Use correct tool for the job.</li> <li>Wear eye protection and gloves as required.</li> <li>Use Rubber sleeved chisels.</li> <li>Training on use of equipment.</li> </ul>	1	3	Low
Cuts from sharp tools, such as knives, screwdrivers or other sharp tools	Operatives / Other workers in vicinity / General Public	3	3	Med	<ul style="list-style-type: none"> <li>Carried, used and stored safely</li> </ul>	1	3	Low
Work related upper limb disorders	Operatives	2	3	Low	<ul style="list-style-type: none"> <li>Ergonomic design of task, eg special tools, or use of power tools, eg electric nut runner.</li> <li>Good lighting.</li> <li>Good quality access equipment.</li> </ul>	1	3	Low
Dust	Operatives / Other workers in vicinity	3	2	Low	<ul style="list-style-type: none"> <li>Wear masks and goggles in accordance with any assessment carried out under COSHH.</li> <li>Damp down or use vacuum cleaner instead of sweeping</li> </ul>	2	2	Low
Falls while using the tool	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Only permit work at height from a suitable working platform (not a ladder unless of short duration).</li> </ul>	1	4	Low
Unauthorised use	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>Lock away hand tools when not in use.</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Provision and Use of Work Equipment Regulations 1998</li> <li>HS(G) 60: Work related upper limb disorders</li> </ul>								
<b>Supervisory / Management</b> <ul style="list-style-type: none"> <li>Monitoring of equipment that can deteriorate with use, to ensure they are sharpened or replaced as necessary. Monitoring to ensure equipment is used correctly.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>Operatives are to be instructed in the correct method and use and in maintenance requirements at start of employment if not part of craft training.</li> </ul>								



## General Risk Assessments

9 Use of Abrasive Wheels								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Impact injury caused by ejected particles or sparks, loss of or bursting of wheel including eye injury or contact with the wheel	Operatives / Other workers in vicinity	3	3	Med	<ul style="list-style-type: none"> <li>Maintenance of machine guard, wearing suitable goggles or helmet visor, gloves (in some circumstances) and safety footwear.</li> <li>Inspection of wheel and grinder before use.</li> <li>Selection and inspection of the correct wheel and speed.</li> <li>Only trained Operatives to use abrasive wheels.</li> </ul>	2	3	Low
Fire through ignition of flammable vapours, oils, etc or sparks during cutting and grinding operations	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>Good housekeeping, wearing fire resistant clothing (heavy duty cotton overalls, never use polyester), regular laundering of overalls.</li> <li>Do not use in potentially explosive or flammable atmospheres.</li> <li>Suitable fire extinguisher in vicinity</li> </ul>	1	5	Low
Entanglement with rotating disc	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>Loose clothing and ties not worn</li> <li>Long hair tied back</li> <li>Machine fully stopped before putting down.</li> </ul>	1	5	Low
Dropping equipment while in operation	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>Only use while standing on firm, level ground</li> <li>Wear suitable safety footwear, goggles etc</li> </ul>	1	5	Low
Inhalation of dust	Operatives / Other workers in vicinity	4	2	Med	<ul style="list-style-type: none"> <li>If possible, select equipment with integral dust suppression or local exhaust ventilation.</li> <li>Wear suitable face masks</li> </ul>	1	2	Low
Electrocution	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>Use 110 Vac Equipment</li> <li>Regular maintenance and connection to a suitably protected supply.</li> <li>Prohibit use in explosive or flammable atmosphere.</li> <li>Scheme of test and inspection (ie PAT Test), including user inspection of tools, leads and any transformers or distribution boxes.</li> <li>Tools to be earthed or double insulated.</li> <li>Procedure for reporting damage and obtaining replacement tools.</li> </ul>	1	5	Low
Dermatitis from dust/slurries/waste material	Operatives	1	2	Low	<ul style="list-style-type: none"> <li>As identified by COSHH Assessment.</li> </ul>	1	2	Low
Noise induced hearing loss	Operatives / Other persons in vicinity / General Public	3	1	Low	<ul style="list-style-type: none"> <li>Wearing appropriate hearing protection and, where possible, siting the work area away from others.</li> </ul>	1	1	Low



## General Risk Assessments

<b>9 Use of Abrasive Wheels</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Vibration White Finger	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>• Provide system for monitoring health of Operatives.</li> <li>• Use modern well maintained equipment, keep hands warm, avoid smoking.</li> <li>• Reduced periods for operating equipment.</li> </ul>	2	3	Low
Falls while operating the tool	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Only permit work from a suitable access platform (not a ladder).</li> </ul>	2	5	Med
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Personal Protective Equipment at Work Regulations 1992</li> <li>• Control of Substances Hazardous to Health Regulations 2002</li> <li>• Control of Vibration at Work Regulations 2005</li> <li>• Control of Noise at Work Regulations 2005</li> <li>• HSG 17 Safety in the use of abrasive wheels</li> </ul>								
<b>Supervisory / Management</b> <ul style="list-style-type: none"> <li>• Monitoring of wearing of eye protection and suitable use of work platforms.</li> <li>• Suitable storage facilities to be provided.</li> <li>• Records of training to be available for perusal.</li> <li>• This type of work lends itself to a generic method statement provided issues of how the work affects others are addressed in a site specific way</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Training required by the Provision and Use of Work Equipment Regulations 1998</li> </ul>								





## General Risk Assessments

<b>10 Use of Cartridge Operated Tools</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Noise	Operatives / Other workers in vicinity	4	2	Med	<ul style="list-style-type: none"> <li>▪ Enforce wearing of carefully selected ear defenders.</li> <li>▪ Separate other workers and display ear protection zone signage.</li> <li>▪ Job rotation.</li> </ul>	1	2	Low
Tool misfiring or jamming, Nails or other material (ie splinters) deflecting at high speed during firing	Operatives / Other workers in vicinity	4	4	High	<ul style="list-style-type: none"> <li>▪ Follow approved procedure for misfires.</li> <li>▪ Regular maintenance and cleaning at manufacturer recommended intervals.</li> <li>▪ Use of cartridges and nails produced by the manufacturer of the tool.</li> <li>▪ Wear suitable eye protection.</li> <li>▪ Examine base material before fixing and carry out trial fix with low power setting.</li> <li>▪ Do not fix into pre-stressed (eg floor beams) or hydraulically pressed concrete (eg kerbs).</li> </ul>	2	4	Med
Falls while operating the tool	Operatives / Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>▪ Only permit work at height from a suitable scaffold (not a ladder).</li> </ul>	1	5	Low
Fire, explosion, misuse	Operatives / Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>▪ Prohibit use in confined spaces and operate where appropriate under the control of a hot works permit.</li> <li>▪ Do not permit use in the presence of flammable vapours.</li> <li>▪ Storage of tools in lockable steel lockers.</li> <li>▪ Strict accounting for issue of consumables and spent cartridges and gas cannisters. Spent or partly used cartridges are to be returned to the supplier.</li> <li>▪ Note: large quantities must be licensed by the police in accordance with Class 6, Division 1 of the Explosives Act 1875.</li> </ul>	1	5	Low
User/other person injury	Operatives / Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>▪ Never permit taking up contact pressure with the hand.</li> <li>▪ Restrict use to mature, trained people who are authorised in writing and are over 18 years old and never leave them unattended.</li> <li>▪ Unload when not in use.</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Confined Spaces Regulations 1997</li> <li>• Control of Noise at Work Regulations 2005</li> <li>• PM14 Safety in the use of cartridge tools, HSE (out of print).</li> </ul>								



## General Risk Assessments

<b>10 Use of Cartridge Operated Tools</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<b>Training</b> • Training required by the Provision and Use of Work Equipment Regulations 1998 can be provided by manufacturers or hire companies.								
<b>Management</b> • Require copies of training records and ensure they are relevant. Monitor the use of eye and noise protection and suitable use of work platforms. Strict control of consumables.								
<b>Recommendations</b> • This type of work lends itself to a generic method statement provided issues of how the work affects others are addressed in a site specific way.								



## General Risk Assessments

<b>11 Use of Ladders</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Manual handling	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Training in safe manual handling techniques.</li> <li>▪ Provide clear access routes where ladders are carried or accessed from.</li> <li>▪ Provide assistance with heavy ladders.</li> <li>▪ Provide training in safe erection of ladders.</li> <li>▪ Select lightweight ladders where appropriate.</li> </ul>	1	3	Low
Unauthorised movement of ladder	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Use correct ladder for job (roof ladder to have appropriate ridge hook and wheels).</li> <li>▪ Provide structure to secure ladder, or foot the ladder.</li> <li>▪ Provide rigid ladder.</li> <li>▪ Prohibit use in strong winds.</li> <li>▪ Provide level base or ladder-levelling device.</li> </ul>	1	5	Low
Electrocution	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Survey for overhead power lines.</li> <li>▪ Agree safe system of work.</li> <li>▪ Use extension ladders to avoid contact and sheath or isolate power supplies.</li> </ul>	1	5	Low
Fall of material	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>▪ Establish and police exclusion zones beneath work at height.</li> <li>▪ Consider alternative to a ladder (ie scaffold, tower).</li> <li>▪ Provide hooks or tool belt to ensure one hand remains on ladder.</li> <li>▪ Wear helmet.</li> </ul>	1	5	Low
Falls from height	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>▪ Provide safe access routes.</li> <li>▪ Good housekeeping</li> <li>▪ Good lighting.</li> <li>▪ Suitable footwear.</li> <li>▪ Ladder to extend at least 1m above step of point (also applicable when gaining access to roof ladders)</li> <li>▪ Trained user, with no history of alcohol or substance abuse.</li> <li>▪ Ladder of sufficient length to ensure no use of top four rungs.</li> <li>▪ Prohibit use in inclement weather.</li> <li>▪ Vertical ladders to have safety hoops to British Standard specification and consider use of safety harnesses and continuous lines.</li> </ul>	1	5	Low
Unauthorised access	Operatives / Other workers in vicinity /	3	5	High	<ul style="list-style-type: none"> <li>▪ Remove ladder when not in use or affix plank to lower half.</li> </ul>	1	5	Low



## General Risk Assessments

<b>11 Use of Ladders</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
	General Public							
Structural failure of ladder	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>▪ Regular form inspection and record (ie 6 monthly).</li> <li>▪ User inspection.</li> <li>▪ Prohibit any adaptation of a ladder to support a plank, eg ladder cripples.</li> <li>▪ Use Class 1 or EN131 Ladders</li> </ul>	1	5	Low
<p><b>Relevant legislation and sources of information</b></p> <ul style="list-style-type: none"> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Work at Height Regulations 2005</li> <li>• HSG150 Health and Safety in Construction</li> <li>• CIS40 General Access Scaffolds and Ladders</li> <li>• BS1129: Specification for portable timber ladders, steps, trestles and lightweight staging</li> <li>• BS2037: Specification for portable aluminium ladders, steps, trestles and lightweight staging</li> <li>• BS EN131: Ladders</li> <li>• INDG445: Safe use of ladders &amp; stepladders: a brief guide</li> </ul>								
<p><b>Training</b></p> <ul style="list-style-type: none"> <li>• All users (correct method of climbing, inspection, erection, lowering and working from).</li> </ul>								
<p><b>Management</b></p> <ul style="list-style-type: none"> <li>• Daily monitoring by site manager.</li> <li>• Site specific risk assessment required for working at height</li> </ul>								
<p><b>Recommendations</b></p> <ul style="list-style-type: none"> <li>• All roofwork from a ladder requires a specific risk assessment. As a general principle, working from a ladder will therefore require a job-specific risk assessment.</li> <li>• No ladder to exceed 9m.</li> </ul>								



## General Risk Assessments

<b>12 Use of Step Ladders</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Manual handling	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Training in safe manual handling techniques.</li> <li>▪ Provide clear access routes</li> <li>▪ Use lightweight step ladders where appropriate.</li> </ul>	2	3	Low
Unauthorised movement of step ladder	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Use correct ladder for job.</li> <li>▪ Put step ladder facing onto work area (not sideways)</li> <li>▪ Ensure step ladder is maintained and rigid.</li> <li>▪ Provide level, firm base</li> </ul>	1	5	Low
Electrocution	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Survey for power lines in the vicinity.</li> </ul>	1	5	Low
Fall of material	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>▪ Establish and police exclusion zones.</li> <li>▪ Consider alternative to a ladder. ie hop ups</li> <li>▪ Provide hooks or tool belt to ensure one hand remains on ladder.</li> <li>▪ Wear helmet.</li> </ul>	1	5	Low
Slips, trips and falls	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>▪ Provide safe access routes.</li> <li>▪ Good housekeeping</li> <li>▪ Good lighting.</li> <li>▪ Suitable footwear.</li> <li>▪ Trained user, with no history of alcohol or substance abuse.</li> <li>▪ Ladder of sufficient height so the hand can hold top of ladder.</li> </ul>	1	5	Low
Unauthorised access	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>▪ Remove ladder when not in use</li> </ul>	1	5	Low
Structural failure of ladder	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>▪ Regular inspection.</li> <li>▪ User inspection.</li> <li>▪ Use Class 1 or EN131 Ladders</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Work at Height Regulations 2005</li> <li>• HSG150 Health and Safety in Construction</li> <li>• CIS40 General Access Scaffolds and Ladders</li> </ul>								



## General Risk Assessments

<b>12 Use of Step Ladders</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<ul style="list-style-type: none"> <li>• BS1129: Specification for portable timber ladders, steps, trestles and lightweight staging</li> <li>• BS2037: Specification for portable aluminium ladders, steps, trestles and lightweight staging</li> <li>• BS EN131: Ladders</li> <li>• INDG445: Safe use of ladders &amp; stepladders: a brief guide</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• All users (correct method of climbing, inspection, erection, lowering and working from).</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• Daily monitoring by site manager.</li> <li>• Site specific risk assessment required for working at height</li> </ul>								



## General Risk Assessments

<b>13 Use of Mobile Scaffold Towers</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Falls from height, fall of material, collapse of the scaffold, overturn of the scaffold	Operatives / Other workers in vicinity	4	5	High	<ul style="list-style-type: none"> <li>▪ Safe Working Load (SWL) to be marked on equipment and adhered to.</li> <li>▪ Safe system of work for erection, alteration, movement and dismantling based on the erector having a copy of the manufacturer's instruction manual.</li> <li>▪ Use of top and mid guard rail on all platforms</li> <li>▪ Use of toe boards on all working platforms</li> <li>▪ Handover and in-service inspection (legally required if tower is static for more than a week), erection and alteration by persons using only manufacturer's approved components.</li> <li>▪ Bombing (throwing materials off the scaffold) to be prohibited. No use of chutes.</li> <li>▪ Monitoring of weather conditions (if outside) and dismantling where appropriate.</li> <li>▪ Careful inspection of ground condition before erection and maintenance of good ground conditions.</li> <li>▪ Wear safety helmets.</li> <li>▪ Access to tower by manufacturer's ladders or stairs.</li> <li>▪ Visitors &amp; General Public to be excluded from area below scaffold.</li> </ul>	2	5	Med
Unsafe movement of the tower	Operatives / Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>▪ Brakes to be applied, tools and persons removed before movement, dismantling in accordance with training.</li> <li>▪ Use of stabilisers in accordance with the tower manufacturer's instructions.</li> </ul>	1	5	Low
Persons or vehicles colliding with the scaffold	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>▪ Lighting, provision of cones or barriers around the scaffolding</li> </ul>	1	5	Low
Unauthorised access to the tower	Children / General Public	2	5	Med	<ul style="list-style-type: none"> <li>▪ Removal or boarding up of the first lift access ladder.</li> <li>▪ Display warning notices.</li> </ul>	1	5	Low
Manual handling	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Use safe system of work for carrying and lifting components</li> </ul>	2	3	Low
Contact with overhead services	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Survey site before erection, agree with cable owner to remove power from cable</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Work at Height Regulations 2005</li> </ul>								



## General Risk Assessments

<b>13 Use of Mobile Scaffold Towers</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<ul style="list-style-type: none"> <li>• Manual Handling Operations Regulations 1999</li> <li>• CIS10 Tower scaffolds</li> <li>• CIS47 Inspections and reports</li> <li>• CIS49 General access scaffolds and ladders</li> <li>• BS 5973 Code of practice for access and working scaffolds and special scaffold structures in steel.</li> <li>• Prefabricated Aluminium Scaffolding Manufacturer's Association (PASMA) Code of Practice</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Erectors should be in possession of proof of training</li> <li>• Users should have received basic instruction (ie a toolbox talk) on safe working practices based on CIS10 as a minimum</li> </ul>								
<b>Management/Supervision</b> <ul style="list-style-type: none"> <li>• Constant monitoring to ensure towers always comply with manufacturer's instructions. Also wearing of hard hats needs regular monitoring.</li> <li>• Site specific risk assessment required for working at height</li> </ul>								
<b>Recommendations</b> <ul style="list-style-type: none"> <li>• Deviations from manufacturer's recommendations requires a specific risk assessment and method statement.</li> </ul>								





## General Risk Assessments

<b>14 Use of Mobile Elevated Work Platforms</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Falls from height, fall of material, overturn of the MEWP	Operatives / Other workers in vicinity	4	5	High	<ul style="list-style-type: none"> <li>▪ Safe Working Load (SWL) to be adhered to.</li> <li>▪ Safe system of work for driving and operating MEWP ie MEWP operated by trained, authorised operators.</li> <li>▪ Use of safety harnesses attached to purpose designed attachment point.</li> <li>▪ Ensure suitable non-slip footwear worn.</li> <li>▪ Bombing (throwing materials off the MEWP) to be prohibited.</li> <li>▪ Monitoring of weather conditions (if outside)</li> <li>▪ Careful inspection of ground condition before use.</li> <li>▪ Wear safety helmets.</li> <li>▪ No lifting over people - Other workers, visitors &amp; general public to be excluded from area below scaffold.</li> <li>▪ Manufacturer's handbook to be available in the MEWP.</li> <li>▪ Have emergency rescue procedure in place</li> </ul>	2	5	Med
Unsafe movement of the MEWP	Operatives / Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>▪ Brakes to be applied, and people / significant quantities of materials/equipment to be removed before movement.</li> <li>▪ Tyres to be checked as part of pre-use and daily inspection</li> </ul>	1	5	Low
Persons or vehicles colliding with the MEWP	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>▪ Lighting, provision of cones or barriers around the MEWP</li> </ul>	1	5	Low
Contact with moving machines or pedestrians	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>▪ Driver to have valid driving licence for type of MEWP</li> <li>▪ Where visibility restricted, movements to be controlled under the guidance of a banksman</li> <li>▪ Physically separate MEWP from other traffic and pedestrians by barriers etc</li> <li>▪ Other workers in area to wear high visibility clothing</li> <li>▪ Ensure MEWP fitted with warning lights, horn and reversing horns</li> </ul>	1	5	Low
Unauthorised access and operation of the MEWP	Children / General Public	2	5	Med	<ul style="list-style-type: none"> <li>▪ Removal of key when not in use</li> <li>▪ Position MEWP in safe, secure area when not in use</li> </ul>	1	5	Low
Manual handling	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Use safe system of work for carrying and lifting components – use team lift as necessary</li> </ul>	2	3	Low
Contact with overhead structures and services	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Survey site before use</li> <li>▪ Agree with cable owner to remove power from electric cables</li> </ul>	1	5	Low



## General Risk Assessments

<b>14 Use of Mobile Elevated Work Platforms</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
					<ul style="list-style-type: none"> <li>▪ MEWP to be moved under guidance of banksman</li> </ul>			
High pressure hydraulic fluid ejection	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>▪ Ensure MEWP maintained in accordance with manufacturer's instructions</li> </ul>	1	5	Low
Structural failure of MEWP	Operatives / Other workers in vicinity	1	5	Med	<ul style="list-style-type: none"> <li>▪ MEWP regulated examined in accordance with LOLER regulations</li> <li>▪ Daily pre-use inspection by operator</li> <li>▪ No unauthorised maintenance by operator</li> </ul>	1	5	Low
<p><b>Relevant legislation and sources of information</b></p> <ul style="list-style-type: none"> <li>• Construction (Design and Management) Regulations 2015.</li> <li>• Work at Height Regulations 2005.</li> <li>• Provision and Use of Work Equipment Regulations 1998.</li> <li>• Lifting Operations and Lifting Equipment Regulations 1998.</li> <li>• Manual Handling Operations Regulations 1999.</li> <li>• HSG 144 The safe use of vehicles on construction sites</li> <li>• HSG 150 Health &amp; Safety in Construction</li> <li>• HSG 151 Protecting the public, your move</li> <li>• GS 6 Avoidance of danger from overhead electric lines</li> <li>• BS EN 280 Mobile elevating working platforms</li> <li>• OC 314/19 Mobile elevating working platforms and safety harnesses</li> </ul>								
<p><b>Training</b></p> <ul style="list-style-type: none"> <li>• Machine operator</li> <li>• Use of safety harnesses (on boom type MEWPS)</li> </ul>								



## General Risk Assessments

<b>15 Use of Access Scaffolding</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Falls from height, fall of material	Operatives / Other workers in vicinity	4	5	High	<ul style="list-style-type: none"> <li>Handover and in-service weekly inspection, erection by certificated scaffolders.</li> <li>Safe system of work for erection, including use of safety harnesses.</li> <li>Bombing (throwing materials off the scaffold) to be prohibited.</li> <li>Monitoring of weather conditions and re-inspection where appropriate.</li> <li>Provision of fans, brickguards or sheeting.</li> <li>Visitors &amp; General Public to be excluded from area below scaffold.</li> </ul>	2	5	Med
Collapse of the scaffold or part of the scaffold.	Operatives / Other workers in vicinity	3	5	High	<ul style="list-style-type: none"> <li>Alteration by scaffolders only.</li> </ul>	1	5	Low
Persons or vehicles colliding with the scaffold	Operatives / Other workers in vicinity	2	5	Med	<ul style="list-style-type: none"> <li>Careful inspection of ground condition before erection.</li> <li>Design of the scaffold if additional loads imposed, eg sheeting, hoist</li> <li>Capping of exposed tube ends, taping of exposed nuts, lighting approved by the Local Authority, provision of cones, painted timber baulks and sleeved standards.</li> </ul>	1	5	Low
Unauthorised access to the scaffolding	Children / General Public	2	5	Med	<ul style="list-style-type: none"> <li>Removal or boarding up of the first lift access ladder.</li> <li>The difficult access to the rear of the building will also prevent access.</li> </ul>	1	5	Low
Manual handling	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>Use aluminium tubes or system scaffold components, provide lifting equipment to raise materials for the scaffolder.</li> </ul>	2	3	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Construction (Design and Management) Regulations 2015.</li> <li>Provision and Use of Work Equipment Regulations 1998.</li> <li>Work at Height Regulations 2005</li> <li>Manual Handling Operations Regulations 1999</li> <li>HS(G)150 Health and safety in construction.</li> <li>HS(G) 168 Fire Safety in Construction Work</li> <li>NASC Guide to Good Practice for Scaffolding with Tubes and Fittings (TG20)</li> <li>BS EN 12811-1 : 2003 Scaffolds - performance requirements and general design</li> <li>Cradle Riggers and Users guide to safe suspended platforms (Construction Industry Press S81)</li> <li>CITB Guide to practical scaffolding (CE509)</li> <li>GE 700 notes 5 part 1 National Access and Scaffolding Confederation (NASC) The use of fall arrest equipment whilst erecting, altering and dismantling scaffolding SG4</li> </ul>								



## General Risk Assessments

<b>15 Use of Access Scaffolding</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<b>Training</b> <ul style="list-style-type: none"> <li>• Scaffolders should be in possession of proof of training (Basic Scaffolder, Advanced Scaffolder), including use of safety harnesses.</li> <li>• Workers should be made aware that alteration of scaffolds or removal of ties can only be undertaken by competent scaffolders on receipt of specific authority.</li> <li>• Supervisors should be fully trained in scaffold inspection.</li> <li>• Basic training in the form of tool-box talks should be provided to all workers to enable them to identify scaffold components and defects in scaffolds.</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• A detailed specification is required for scaffolding to ensure it is erected in accordance with NASC guidelines and that it provides edge protection where required, working platforms positioned at the correct height for the user, ladder access points intelligently positioned and suitable loading bays. Wearing of helmets needs regular monitoring.</li> </ul>								
<b>Recommendations</b> <ul style="list-style-type: none"> <li>• The method statement should detail sequence for dismantling as well as erection of scaffolding.</li> </ul>								



## General Risk Assessments

<b>16 Use of Harnesses</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Falls from height due to failure of harness and associated equipment	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Harnesses to be CE marked and procured from reputable source</li> <li>▪ Harnesses and equipment to be checked before use for damage</li> <li>▪ Harnesses to be inspected annually and records retained</li> </ul>	1	5	Low
Falls from height due to incorrect use of harness	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Harnesses to fit person and be properly fitted / adjusted before use</li> <li>▪ Operatives to be trained in harness use</li> <li>▪ Use of dual lanyards when changing from one lanyard to another</li> </ul>	1	5	Low
Hitting surface / object in event of a fall	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Restraint Lanyard to be suitable length so as to prevent person getting near danger areas</li> <li>▪ Fall arrest lanyard to be long enough taking into account fall distance and length of shock absorber which unravels in event of a fall</li> <li>▪ Consider pendulum effect</li> </ul>	1	5	Low
Falls due to failure of anchor points	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Anchors points to be suitably robust and fit for purpose</li> <li>▪ Anchor points to be formally checked annually and physically inspected before use</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Work at Height Regulations 2005</li> <li>• HSE Leaflet INDG367 Inspecting fall arrest equipment made from webbing or rope</li> <li>• HSE Leaflet Selecting, using and maintaining personal fall protection equipment</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• All users (correct method of inspection and use).</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• Equipment and anchor points to be formally inspected and inspected before use.</li> <li>• Site specific risk assessment required for working at height</li> </ul>								
<b>Recommendations</b> <ul style="list-style-type: none"> <li>•</li> </ul>								



## General Risk Assessments

<b>17 Use of Wacker</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Dropping onto feet	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Wearing of safety footwear with steel toe caps</li> </ul>	2	4	Med
Noise	Operatives / Other workers in vicinity / General Public	4	2	Med	<ul style="list-style-type: none"> <li>Provision and enforced wearing of high quality ear defenders during hydraulic breaker duties.</li> </ul>	2	2	Low
Hand Arm Vibration Syndrome	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>See risk assessment entitled "Use of Vibrating Equipment (Risk of HAVS)"</li> <li>Information on equipment vibration levels and maximum usage times to be available on site.</li> <li>Use of modern low vibration equipment</li> <li>Job rotation</li> </ul>	1	4	Low
Electrocution (when using electrical equipment)	Operatives	3	5	High	<ul style="list-style-type: none"> <li>Use 110 volt equipment – only use 240 volt equipment with RCD</li> <li>Inspect equipment before use</li> <li>Portable Appliance Testing</li> </ul>	1	5	Low
Contact with petrol (when using petrol machine)	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Minimise contact with skin – wear impervious gloves if necessary</li> </ul>			
Slips, trips and falls	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>Provide safe access routes.</li> <li>Cables (as applicable) routed in safe area</li> <li>Good housekeeping.</li> <li>Good lighting.</li> <li>Suitable non slip footwear.</li> </ul>	1	3	Low
Manual Handling	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>Manual handling training</li> <li>Minimise carrying distance – use barrow or deliver close to workplace</li> </ul>	1	3	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Provision and Use of Work Equipment Regulations 1998</li> <li>Control of Vibrations at Work Regulations 2006</li> <li>Personal Protective Equipment at Work Regulations 1992</li> <li>HS(G) 150: Health and safety in construction</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>Monitoring use of equipment, particularly vibration exposure</li> </ul>								



## General Risk Assessments

<b>17 Use of Wacker</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<b>Training</b> • Equipment familiarisation required, plus manual handling training								



## General Risk Assessments

<b>18 Use of Vibrating Equipment (Risk of HAVS)</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Hand/Arm Vibration Syndrome	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Use of suitable, well maintained equipment</li> <li>Selection of equipment with lowest levels of vibration – see manufacturers details about the equipment</li> <li>Obtain information on levels of vibration emitted by equipment, and ensure operatives do not exceed the daily exposure value (5 ms<sup>-2</sup>) – Refer to HSE calculator website or manufacturer's data</li> <li>If necessary, use HSE's vibration exposure calculator - available at <a href="http://www.hse.gov.uk/vibration/vibcalc.xls">www.hse.gov.uk/vibration/vibcalc.xls</a></li> <li>Gloves and facilities available to keep hands warm</li> <li>Health surveillance</li> <li>Information and training to operatives about the condition, the causes and control measures.</li> </ul>	2	4	Med
Work related upper limb disorder	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Ergonomic design of task ie pre-assembly to avoid repetitious fixing with poor posture</li> <li>Good lighting</li> <li>Job rotation</li> <li>Good quality access equipment</li> </ul>	2	4	Med
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Personal Protective Equipment Regulations 2002</li> <li>Control of Vibration at Work Regulations 2005</li> <li>HS(G) 60: Work related upper limb disorders</li> <li>HS(G) 88: Hand-arm vibration</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>Selection / procurement of equipment with lowest levels of vibration</li> <li>Implementation of Health Surveillance programme</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>Information and instruction about HAVS and symptoms/preventative measures</li> </ul>								





## General Risk Assessments

<b>19 Use of Magnetic Drills</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Contact with cutter – general hazard	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Adjustable guard on new m/c (rotabroach)</li> <li>▪ Safety strap on rotabroach</li> <li>▪ No guard on magnatech – but securely clamped (using magnet and clamp)</li> <li>▪ Operate at waist height</li> <li>▪ Use by trained, authorised operatives</li> </ul>	1	4	Low
Manual lubrication on some units using trigger spray – increases risk of contact with cutter	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ As above</li> </ul>	1	5	Low
Entanglement in rotating cutter (hair, clothing)	Operatives	2	4	Med	<ul style="list-style-type: none"> <li>▪ No loose clothing worn</li> <li>▪ No staff with long hair</li> <li>▪ No gloves worn when undertaking drilling</li> <li>▪ Use by trained, authorised operatives</li> </ul>	1	5	Low
Cutting tool accidentally breaking – risk of tool being ejected	Operatives	2	4	Med	<ul style="list-style-type: none"> <li>▪ Relatively slow cutter</li> <li>▪ Eye protection is mandatory</li> </ul>	1	5	Low
Unintentional movement of equipment when using magnetic clamp – resulting in contact or breaking cutter	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>▪ Use proprietary clamp for all jobs where possible</li> <li>▪ Safe system of work and training</li> </ul>	1	4	Low
Electricity – due to poor maintenance, damage etc-	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Use of 110 volt equipment</li> <li>▪ Any 240 volt equipment used with RCD on site</li> <li>▪ Portable appliance testing</li> <li>▪ Inspection before use</li> </ul>	1	5	Low



## General Risk Assessments

<b>19 Use of Magnetic Drills</b>									
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls			
		L	S	R		L	S	R	
Cuts from contact with swarf	Operatives	3	3	Med	<ul style="list-style-type: none"> <li>▪ Brush off swarf – no gloves worn as these could be entangled</li> </ul>	1	3	Low	
Contact with / inhalation of cutting fluid substances – trigger spray	Operatives	2	3	Low	<ul style="list-style-type: none"> <li>▪ COSHH assessment required</li> </ul>	1	3	Low	
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Provision and Use of Work Equipment Regulations 1998.</li> </ul>									
<b>Training</b> <ul style="list-style-type: none"> <li>• Basic training in the use of equipment</li> </ul>									
<b>Management</b> <ul style="list-style-type: none"> <li>• Adequate space for undertaken work required</li> </ul>									
<b>Recommendations</b> <ul style="list-style-type: none"> <li>•</li> </ul>									



## General Risk Assessments

<b>20 Unloading Lorries</b>								
<b>Hazard</b>	<b>Those At Risk</b>	<b>Risk Rating Without Controls</b>			<b>Control Measures</b>	<b>Risk Rating With Controls</b>		
		<b>L</b>	<b>S</b>	<b>R</b>		<b>L</b>	<b>S</b>	<b>R</b>
Manual Handling	Operatives	3	4	Med	• Use of crane – see risk assessment for lifting operations	2	4	Med
Falls from height, from lorry trailer	Operatives	2	5	Med	• Use of fall arrest equipment connected to crane hook, or use of bags around edge of trailer	1	5	Low
Contact with reversing lorries	Operative, others in the vicinity	3	5	High	• Use of banksman on site to assist the reversing operations	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Work at Height Regulation 2005</li> <li>• Manual Handling Operations Regulations 1999</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Basic training in unloading from trailers</li> <li>• operatives who use harnesses must have received training in safe use of harnesses</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• Planning and supervision of activity, and site specific risk assessment is crucial</li> </ul>								
<b>Recommendations</b> <ul style="list-style-type: none"> <li>•</li> </ul>								



## General Risk Assessments

<b>21 Use of Forklift Truck / Telehandler</b>									
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls			
		L	S	R		L	S	R	
Fall of material from forks of FLT	Operatives, visitors	3	5	High	<ul style="list-style-type: none"> <li>▪ Driver trained in safe driving techniques and instructed not to lift over people,</li> <li>▪ Driver in strengthened cab,</li> <li>▪ Safe Working Load (SWL) not exceeded,</li> <li>▪ Trained, authorised drivers</li> <li>▪ Check condition of surface as part of daily/weekly inspection</li> </ul>	1	5	Low	
FLT overturning, particularly on sloping ground	Operatives, visitors	3	5	High	<ul style="list-style-type: none"> <li>▪ Safe system of work (in accordance with FLT driver training),</li> <li>▪ FLT suitable for work undertaken,</li> <li>▪ Clean surfaces in good condition, and mostly on the level except for slope at rear</li> <li>▪ Speed limit kept low - speed limiters installed</li> <li>▪ FLT tyres in good condition,</li> <li>▪ Safe Working Load not exceeded,</li> <li>▪ Loads are not lifted high,</li> <li>▪ Roll over protection system and seat belt worn when risk of toppling exists</li> <li>▪ Trained, authorised drivers</li> </ul>	1	5	Low	
Contact with moving vehicles or pedestrians	Operatives, visitors	3	5	High	<ul style="list-style-type: none"> <li>▪ FLT fitted with horn, reversing alarm and flashing light – need daily checks to confirm they are working</li> <li>▪ FLT Warning signs at site as required</li> <li>▪ Limit traffic in FLT operations area,</li> <li>▪ Limit number of pedestrians using area</li> <li>▪ Optimise layout of site</li> <li>▪ No unaccompanied visitors on site</li> <li>▪ Adequate lighting in area</li> <li>▪ Visitors enter premises through front entrance</li> <li>▪ High-viz clothing worn by everyone on site</li> </ul>	1	5	Low	
Collision with structures	Operatives, property etc	3	5	High	<ul style="list-style-type: none"> <li>▪ Adequate lighting,</li> <li>▪ Staff training and awareness</li> <li>▪ Protection installed in vulnerable areas as required</li> </ul>	1	5	Low	
Falls from machine	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>▪ Provision of suitable non-slip footwear</li> <li>▪ Handholds fitted and non-slip materials used on FLT,</li> <li>▪ FLT kept clean,</li> </ul>	1	5	Low	



## General Risk Assessments

<b>21 Use of Forklift Truck / Telehandler</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
					<ul style="list-style-type: none"> <li>▪ Seat belt fitted</li> <li>▪ Passengers prohibited from riding on FLT</li> </ul>			
Potential failure of lift ruck	Operatives, visitors	2	5	Med	<ul style="list-style-type: none"> <li>▪ Ensure lift truck is examined by a competent company every 12 months in accordance with statutory requirements</li> <li>▪ Load being lifted to not exceed the Safe Working Load (SWL)</li> </ul>	1	5	Low
Potential failure of lifting shovels and cage when in use	Operatives, visitors	2	5	Med	<ul style="list-style-type: none"> <li>▪ Ensure all "lifting accessories" and examined by a competent company every 6 months in accordance with statutory requirements (speak to FLT maintenance company)</li> </ul>	1	5	Low
Unauthorised access	Operatives, visitors	3	5	High	<ul style="list-style-type: none"> <li>▪ Keys removed when FLT not in use</li> <li>▪ FLT parked in safe area</li> </ul>	1	5	Low
High pressure fluid ejection	Operatives, visitors	2	4	Med	<ul style="list-style-type: none"> <li>▪ Maintenance in accordance with manufacturer's instructions</li> </ul>	1	4	Low
Bad Weather	Operatives, visitors	2	5	Med	<ul style="list-style-type: none"> <li>▪ Outside surfaces cleared of ice/snow before FLT is used</li> </ul>	1	5	Low
Maintenance	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>▪ Extent of maintenance undertaken by drivers is limited,</li> <li>▪ All other maintenance, including tyre repair, is undertaken by specialist mechanics</li> <li>▪ Ensure daily checklist is fitted to FLT's in a prominent location</li> <li>▪ Ensure records of daily checks maintained</li> </ul>	1	5	Low
Drivers	Operatives	3	5	High	<ul style="list-style-type: none"> <li>▪ Drivers have full driving licence,</li> <li>▪ Drivers have certificate of competence</li> <li>▪ Manager checks competence of FLT drives</li> <li>▪ Drivers medically fit,</li> <li>▪ Drivers instructed to report any medical conditions/ medication that may affect their ability to operate the FLT safely</li> <li>▪ Consider refresher training for FLT drivers at periodic intervals (i.e. every 3 to 5 years)</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Lifting Operations and Lifting Equipment Regulations</li> <li>• Construction (Design and Management) Regulations 2015</li> </ul>								



## General Risk Assessments

<b>21 Use of Forklift Truck / Telehandler</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<ul style="list-style-type: none"> <li>• Approved Code of Practice and Supplementary Guidance "Rider Operated Lift Trucks- operator training". ISBN 0 7176 2455 2 (HSE)</li> <li>• Safety in Working with Lift trucks HSG(6)</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• Ensure suitable equipment hired for material and site conditions</li> <li>• Ensure risk assessment undertaken and forklift truck operations planned before starting work on site – ensure drivers are fully briefed</li> <li>• Ensure equipment are subject to thorough examinations by a competent firm</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Drivers must have up to date forklift truck licence and be medically fit</li> </ul>								



## General Risk Assessments

<b>22 Use of Trailers</b>									
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls			
		L	S	R		L	S	R	
Overtum of trailer	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>Do not overload trailer</li> <li>Trailer not to be used on surfaces with significant slopes</li> <li>Driver to check tyres for proper inflation and wear before use</li> <li>Loads to be distributed evenly and tied down</li> </ul>	1	5	Lowd	
Trailer disconnecting when being pulled	General Public	3	5	High	<ul style="list-style-type: none"> <li>Driver to abide by trailer speed limit</li> <li>Trailer to be loaded in accordance with manufacturers recommendations and not overloaded</li> <li>Load to be secure and centre of gravity over the wheels</li> <li>Vehicle pulling the trailer to be suitable for the task and any attachments checked annually by a competent firm</li> <li>Brakes to be regularly checked as part of ongoing maintenance / inspection</li> </ul>	1	5	Low	
Failure of trailer due to overloading	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>Do not overload trailer – load below the Safe Working Load (SWL) limit</li> </ul>	1	5	Low	
Other vehicles colliding into back of moving trailer	General public	3	5	High	<ul style="list-style-type: none"> <li>Driver to ensure all lights are functional before driving off</li> <li>Lights to be regularly checked as part of ongoing maintenance</li> </ul>	1	5	Low	
Fall of material from trailer	Operatives / Other workers in vicinity / General Public	3	5	High	<ul style="list-style-type: none"> <li>Do not overload trailer</li> <li>Tie down / make secure all equipment on the trailer</li> <li>Check any fold down sides and associated locks/pins during regular maintenance and inspection</li> </ul>	1	5	Low	
Maintenance	Operatives / Other workers in vicinity / General Public	2	5	Med	<ul style="list-style-type: none"> <li>Driver maintenance restricted.</li> <li>All other maintenance including tyre repair only by specialist mechanics.</li> </ul>	1	5	Low	
Manual handling of trailer	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Assessment of risks and planning by management or driver</li> <li>Deliver trailer as close to parking area as possible – avoid or minimise any pushing/pulling</li> <li>Team work as required</li> <li>Consider type of surface, load, stability of load, sloping surfaces etc before undertaking any physical pushing/pulling of the trailer</li> </ul>	1	4	Low	



## General Risk Assessments

<b>22 Use of Trailers</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Manual handling of loads	Operatives	3	4	Med	<ul style="list-style-type: none"> <li>Park trailer as close as possible to point of delivery</li> <li>Consider task, environment, and load risks before embarking on manual handling</li> <li>Team lifting</li> <li>Use of mechanisation (ie trolleys)</li> <li>Operative to have received manual handling training</li> </ul>	1	4	Low
Unauthorised use	Operatives	2	5	Med	<ul style="list-style-type: none"> <li>Kept at private address when not in use</li> <li>Stored in secure area of site when parked on site</li> </ul>	1	5	Low
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>Construction (Design &amp; Management) Regulations 2015</li> <li>Management of Health and Safety at Work Regulations 1999</li> <li>HS(G) 144 Safe use of vehicles in construction work</li> <li>HS(G) 150: Health and safety in construction</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>The possession of a valid training certificate is not a guarantee for safe working practices. Every driver should be monitored and the site manager should have regular sight of the driver's licence.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>Driver – driving with trailer</li> <li>Manual handling training</li> </ul>								





## General Risk Assessments

<b>23 Use of Welding Equipment</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
Arc welding	Operatives / Other workers in vicinity / Clients / General Public	4	4	Med	<ul style="list-style-type: none"> <li>Adequate PPE (overalls, face masks) worn by operative</li> <li>On domestic premises, clients and public to be warned of welding activities and hazards</li> <li>Public to be kept away from area</li> <li>Welding to finish one hour before completion of work, and Fire Check to be made before leaving site</li> <li>Use of Hot Works Permit when on commercial or construction sites</li> </ul>	1	4	Low
Arc eye	Operatives / Other workers in vicinity / Clients / General Public	5	4	Med	<ul style="list-style-type: none"> <li>Operatives to wear suitable face shields</li> <li>Verbal warning given to clients and general public not to look at welding operations</li> <li>Screens provided where necessary</li> </ul>	1	4	Low
Electrical hazards	Operatives / Other workers in vicinity / Clients / General Public	3	5	High	<ul style="list-style-type: none"> <li>Use of suitable, well maintained equipment – equipment regularly PAT tested</li> <li>Equipment used by trained, authorised people</li> <li>Equipment used in accordance with industry standard safe system of work</li> </ul>	1	5	Low
Fumes	Staff / Operatives / Visitors / Contractors	3	3	Med	<ul style="list-style-type: none"> <li>Adequate ventilation in area, preferably outside</li> <li>Portable ventilation provided if required</li> <li>Operatives to wear air fed visors if required</li> </ul>	1	3	Low
Burns	Staff / Operatives / Visitors / Contractors	3	3	Med	<ul style="list-style-type: none"> <li>Wearing of suitable overalls and gloves</li> <li>Position equipment (tools and workpiece) in place where people cannot come into accidental contact with hot surfaces</li> </ul>	1	3	Low
Leaking gas	Staff / Operatives / Visitors / Contractors	2	5	Med	<ul style="list-style-type: none"> <li>Adequate ventilation (ie outside)</li> <li>Use away from pits, drains etc where gas could otherwise sink into</li> <li>Use of well maintained welding equipment</li> <li>Equipment set up and maintained by trained, competent operatives</li> </ul>	1	5	Low
Fire / Explosion	Staff / Operatives / Visitors / Contractors	2	5	Med	<ul style="list-style-type: none"> <li>Extinguisher in vicinity</li> <li>Welding undertaken away from flammable/combustible materials</li> <li>Gas cylinders positioned in safe location away from welding activity</li> <li>User inspection of equipment, particularly pipes</li> </ul>	1	5	Low
Injury through falling cylinder	Operatives / Clients / Visitors	2	4	Med	<ul style="list-style-type: none"> <li>Cylinder chained to transporting frame</li> </ul>	1	4	Low



## General Risk Assessments

<b>23 Use of Welding Equipment</b>								
Hazard	Those At Risk	Risk Rating Without Controls			Control Measures	Risk Rating With Controls		
		L	S	R		L	S	R
<b>Relevant legislation and sources of information</b> <ul style="list-style-type: none"> <li>• Dangerous Substances and Explosive Atmospheres Regulations 2002</li> <li>• Provision and Use of Work Equipment Regulations 1998</li> <li>• Construction (Design and Management) Regulations 2015</li> <li>• Management of Health and Safety at Work Regulations 1999</li> <li>• Personal Protective Equipment at Work Regulations 1992</li> <li>• HS(G) 150: Health and safety in construction</li> <li>• HSE document “Electrical Safety in Arc 3 – HSG118”</li> </ul>								
<b>Management</b> <ul style="list-style-type: none"> <li>• Supervision of welding operations. Possible use of hot works permit system.</li> </ul>								
<b>Training</b> <ul style="list-style-type: none"> <li>• Training in welding operations</li> </ul>								