

# RISK ASSESSMENT BRIEFING RECORD

## GENERAL CONSTRUCTION ACTIVITIES

RISK ASSESS. NO.	TITLE
A01	Asbestos Containing Materials
A02	Contaminated Land
A03	Demolition Works
A04	Electrical Installations (temporary supplies)
A05	Excavations
A06	Fire Safety
A07	Lead Work
A08	Pre-Demolition Enabling Works
A09	Site Access/Egress
A10	Site Set up
A11	Storage and use of Highly Flammable Liquids
A12	Underground/Buried Services
A13	Work near Water
A14	Storage of materials on site
A15	Removal of asbestos cement clad door
A16	Removal of asbestos cement flue pipe
A17	Removal of asbestos cement roof sheets
A18	Removing wall & floor tiles
A19	Removing windows
A20	Use of banksman (for reversing vehicles)
A21	Stripping plaster / plasterboard from ceilings and walls
A22	Working with mineral wall
A23	
A24	
A25	
A26	
A27	
A28	
A29	
A30	
A31	
A32	
A33	
A34	

## USE OF PLANT, TOOLS AND OTHER EQUIPMENT

<b>RISK ASSESS. NO.</b>	<b>TITLE</b>
<b>B01</b>	Abrasive Wheels
<b>B02</b>	Chain Saws
<b>B03</b>	Electrical Hand Tools/Equipment
<b>B04</b>	Excavators
<b>B05</b>	Excavators Used for Lifting
<b>B06</b>	Telehandlers
<b>B07</b>	Hydraulic and Pneumatic Tools/Equipment
<b>B08</b>	Lifting Equipment
<b>B09</b>	Other hand tools and equipment
<b>B10</b>	Welding
<b>B11</b>	Slinging of loads
<b>B12</b>	Mini excavators and dumpers
<b>B13</b>	Petrol disc cutters
<b>B14</b>	Use of electric concrete breakers
<b>B15</b>	

## WORK AT HEIGHT/ON ROOFS

<b>RISK ASSESS. NO.</b>	<b>TITLE</b>
<b>C01</b>	Access Scaffolds
<b>C02</b>	Fragile Roofs
<b>C03</b>	Ladders
<b>C04</b>	Mobile Elevated Working Platforms (MEWPS)
<b>C05</b>	Mobile Tower Scaffolds
<b>C06</b>	Working at Height
<b>C07</b>	Removing tiles/slates to pitched roofs
<b>C08</b>	Use of safety harness and lanyards
<b>C09</b>	
<b>C10</b>	
<b>C11</b>	

## SECTION D MISCELLANEOUS

RISK ASSESS. NO.	TITLE	
D01	Exposure to Dust	
D02	Exposure to Noise	
D03	Exposure to Sun	
D04	Exposure to Vibration	
D05	Site Security (Preventing public access to building site)	
D06	Slips trips and falls	
D07	Working with hazardous substances	
D08		
D09		

# **SECTION A**

## **GENERAL CONSTRUCTION ACTIVITIES**

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A01</b>
<b>Task/Activity:</b>	Working with Asbestos Containing Materials (ACM's)	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of asbestos dust/fibres (Mesothelioma, lung cancer and Asbestosis)	X			X					15
2	Falls of persons through fragile materials such as asbestos cement roofing	X			X					15
3										
4										
5										
6										
7										
8										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots		Approved Overalls	X

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives to be provided with asbestos awareness training to recognise potential ACM's</li> <li>➤ Only competent and licensed asbestos contractors to carry out works</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Managers to ensure all safeguards are in place and that the appropriate PPE is provided and used</li> <li>➤ Local HSE office to be informed of works involving asbestos 28 days before commencement</li> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

<b>Physical Controls</b> <ul style="list-style-type: none"> <li>➤ Restrict access to the work area and designate it as a Respirator Zone</li> <li>➤ Ensure all ACM's are kept damp to reduce fibre release</li> <li>➤ Double bag all asbestos waste and place in sealed</li> </ul>	<b>Procedural Controls</b> <ul style="list-style-type: none"> <li>➤ If ACM's are suspected – stop all works immediately</li> <li>➤ Detailed method statement required for any works involving asbestos</li> <li>➤ All works to be carried out under a permit system</li> </ul>
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Physical Controls	Procedural Controls
container for disposal to a licensed site	

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Control of Asbestos at Work Regulations and Approved Code of Practice</li> <li>➤ Asbestos (Licensing) Regulations</li> <li>➤ Introduction to Asbestos Essentials: Comprehensive Guidance on Working with Asbestos in the Building Maintenance and Allied Trades</li> <li>➤ A Comprehensive Guide to Managing Asbestos in Premises</li> <li>➤ Asbestos Essentials Task Manual: Task Guidance Sheets for the Building Maintenance and Allied Trades</li> </ul>	<ul style="list-style-type: none"> <li>➤ Medical surveillance should be initiated for all persons working with or exposed to asbestos</li> <li>➤ All work with Asbestos is potentially highly dangerous and should be carried out by appropriately licensed contractors in accordance with strict safety procedures</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A02</b>
<b>Task/Activity:</b>	Contaminated Land	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation, ingestion or injection of hazardous substances leading to adverse health effects		X		X					10
2	Contact with hazardous substance		X		X					10
3										
4										
5										
6										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection	X	Head Protection	X
Gloves	X	Boots	X	Protective Clothing	X

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ Ensure operatives are instructed in the correct use and fitting of all protective equipment</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

<b>Physical Controls</b>	<b>Procedural Controls</b>
<ul style="list-style-type: none"> <li>➤ Clearly identify and sign all areas of contaminated land</li> <li>➤ Restrict access to all such areas to authorised persons only</li> <li>➤ Ensure all persons and vehicles leaving the site do not contaminate adjacent areas, consider use of a wheel wash/decontamination unit</li> </ul>	<ul style="list-style-type: none"> <li>➤ Control dust by regularly spraying with water</li> <li>➤ Ensure all material is disposed at an appropriately licensed site</li> <li>➤ Determine if health surveillance/monitoring is required</li> </ul>

<b>HSE &amp; Other Guidance</b>	<b>Comments</b>
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HSE & Other Guidance	Comments
➤ HSG 66 Protection of workers and the general public during the development of contaminated land	➤ The hazards associated with contaminated land depend largely on the nature of the contaminants



# CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A03</b>
<b>Task/Activity:</b>	Demolition Works	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Premature collapse		X		X					10
2	Exposure to hazardous substances (lead, asbestos etc)		X		X					10
3	Contact with live services		X			X				8
4	Noise and vibration		X			X				8
5	Falls from height		X		X					10
6	Falls through material		X		X					10
7	Falling objects	X			X					15
8	Heavy plant and machinery		X		X					10
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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ash/09/02 1

ash/09/02 2

PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing	X	Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>All workers should be competent trained demolition contractors with knowledge of the works in hand</li> <li>All workers undertaking other works in proximity to the demolition works should be kept at a safe distance</li> </ul>	<ul style="list-style-type: none"> <li>Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>Restrict access to authorised persons</li> <li>Ensure safe access and egress is provided to all areas</li> <li>Ensure all hazardous materials are removed prior to</li> </ul>	<ul style="list-style-type: none"> <li>Carry out a Type 3 Asbestos survey</li> <li>Ensure all demolition works are carefully planned and sequenced to prevent premature collapse</li> <li>Ensure all services are isolated before the start of</li> </ul>

Physical Controls	Procedural Controls
the commencement of demolition works	demolition works ➤ Ensure a pre-demolition survey is undertaken to determine how the structure is built

HSE & Other Guidance	Comments
➤ GS 29 Health and Safety in demolition ➤ BS 6187 Code of Practice for Demolition	➤

# CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A04</b>							
<b>Task/Activity:</b>	Electrical Installations (Temporary supplies)	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Contact with live conductors – Electrocution		X		X					10
2	Fire			X		X				4
3	Manual handling	X					X			9
4										
5										
6										
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X	Insulating Mats	X

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ Only competent experienced electricians to carry out electrical installations</li> <li>➤ Manual handling training to be provided to all staff</li> <li>➤ Staff to be trained and conversant with the requirements of the permit to work system</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Check the qualifications and competence of all electricians</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Isolate all power supplies</li> <li>➤ Ensure the system is appropriately designed and will not become overloaded</li> <li>➤ Ensure all PPE including rubber mats and insulated tools are used</li> <li>➤ Ensure all exposed metalwork is earthed</li> </ul>	<ul style="list-style-type: none"> <li>➤ Permit to work system required for all work involving live electrical installations</li> <li>➤ Lockout procedures required for the isolation of incoming electrical supplies</li> <li>➤ Test all equipment before installing/modifying to ensure that it has been isolated and is not live</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Ensure all switchgear and distribution panels are securely locked and signed</li> <li>➤ Route cables so that they can not be easily damaged, where appropriate use armoured cables</li> <li>➤ Ensure cables are securely fixed and do not create a trip hazard</li> </ul>	<ul style="list-style-type: none"> <li>➤ All installations should be formally inspected and tested before first use and a new certificate issued every three months</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG 141 Electrical Safety on Construction Sites</li> <li>➤ HSG 85 Electricity at Work: Safe Working Practices</li> <li>➤ BS7671 Requirements for Electrical Installations – IEE Wiring Regulations (16<sup>th</sup> Edition)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Carbon Dioxide fire extinguishers to be available throughout the works</li> </ul>

# CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A05</b>							
<b>Task/Activity:</b>	Excavations	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Contaminated ground		X			X				8
2	Underground/buried services	X				X				12
3	Confined spaces	X			X					15
4	Collapse of the excavation		X			X				8
5	Undermining of adjacent structures			X		X				4
6	Water ingress/flooding		X				X			6
7	Noise/vibration	X				X				12
8	Toxic/flammable gases		X			X				8
9	Oxygen deficiency		X			X				8
10	Persons/Plant/Materials falling into the excavation		X		X					10
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others	X				

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ Staff should be trained in the use of cable location tools</li> <li>➤ Staff should be informed of when and how to use support equipment for excavations/trenches</li> <li>➤ Staff to be trained in safe excavation procedures</li> <li>➤ All Plant operators should be CPCS (or equivalent) qualified</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Ensure sufficient and appropriate equipment is available to support excavations and prevent collapse</li> <li>➤ Use a cable detection tool and obtain copies of the</li> </ul>	<ul style="list-style-type: none"> <li>➤ Excavation to be inspected each shift before the commencement of work – record of inspections to be maintained</li> <li>➤ Implement a permit to work system for all excavations</li> </ul>

Physical Controls	Procedural Controls
<p>service plans from the statutory authorities prior to proceeding with the excavations</p> <ul style="list-style-type: none"> <li>➤ Carefully hand dig around buried services</li> <li>➤ Do not stockpile excavated or other materials adjacent to the excavation</li> <li>➤ Ensure safe access and egress is provided into the excavation</li> <li>➤ Provide a handrail/barrier around the edge of all excavations to prevent persons falling into the excavation</li> <li>➤ Where there is a risk of flooding from sewers, groundwater or surface runoff, a suitably sized pump should be provided to dewater the excavation</li> <li>➤ Provide stop logs at the edge of the excavation to stop plant and machinery falling into the excavation or overloading the edges</li> </ul>	<ul style="list-style-type: none"> <li>➤ Where there is a considered risk of potential ventilation problems, a gas monitor should be utilised before entry and during the works</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG 47 Avoiding Danger from Underground Services</li> <li>➤ Construction Information Sheet No. 8 Safety in Excavations</li> <li>➤ HSG185 Health and Safety in Excavations: Be Safe and Shore</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A06</b>							
<b>Task/Activity:</b>	Fire Safety	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity				Risk Score	
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Arson			X		X				4
2	Discarded cigarettes/matches		X			X				8
3	Hot works – Welding and Cutting (inc. disc cutters)	X				X				12
4	Use of LPG (Space heaters/cookers)		X				X			6
5	Electrical short circuits/overloaded sockets			X			X			3
6	Contact with hot exhausts			X			X			3
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All persons to be trained in emergency fire procedures including what to do if the alarm is raised, how to raise the alarm and general evacuation procedures</li> <li>➤ All staff to be informed of the risks from fire and the precautions taken to control and reduce the risk of fire, including the safe storage of flammable materials, site tidiness and the requirement for hot work permits</li> <li>➤ Key operatives to be trained in the selection and use of fire extinguishers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure a suitable and sufficient fire plan is established and that adequate means of escape are provided.</li> <li>➤ Ensure a suitable means of raising the alarm is provided and that appropriate fire extinguishers are located around the site.</li> <li>➤ Ensure that adequate access is provided to all areas of the site for the fire and other emergency services</li> <li>➤ Ensure all electrical installations comply with BS7671</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All hot works to be strictly controlled with a Hot Works Permit</li> <li>➤ No hot works to be undertaken within 1 hour of the site closing</li> <li>➤ Fire extinguishers to be provided whenever hot works are undertaken</li> </ul>	<ul style="list-style-type: none"> <li>➤ Restrict smoking to designated areas</li> <li>➤ Do not allow waste to build up on site</li> <li>➤ Ensure all machinery and electrical equipment is inspected and regularly checked to avoid the risk of fire from faulty equipment</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG 168 Fire Safety in Construction</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>



# CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A07</b>
<b>Task/Activity:</b>	Lead Work	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Ingestion of lead	X				X				12
2	Inhalation of lead fumes	X				X				12
3	Absorption of lead through contact with the skin	X				X				12
4	Manual Handling		X				X			6
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All workers to be informed of the hazards from working with lead</li> <li>➤ Smoking, eating and drinking is to be prohibited when working with lead</li> <li>➤ Workers to be instructed in the safe system of work</li> <li>➤ Workers to be instructed in safe manual handling techniques</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure strict supervision is provided and that control measures remain valid</li> <li>➤ Health surveillance and biological monitoring techniques to assess the health of individuals will be required if exposure is considered to be significant</li> </ul>

<b>Physical Controls</b> <ul style="list-style-type: none"> <li>➤ Adequate hygiene facilities are to be provided including washbasins, soap, nail brushes and towels</li> <li>➤ Mechanical lifting devices should be provided to assist with lifting large pieces of lead</li> </ul>	<b>Procedural Controls</b> <ul style="list-style-type: none"> <li>➤ Rotate workers to limit their potential exposure to the lead</li> <li>➤ Ensure that the PPE selected for the job is suitable and sufficient</li> </ul>
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Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Mechanical snips/cutters should be used instead of other burning/cutting techniques</li> <li>➤ Where removal of products such as lead paint are envisaged, ensure that adequate ventilation is provided and wet the surfaces to limit the potential for lead dust</li> </ul>	
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Control of Lead at Work Regulations and Approved Code of Practice</li> </ul>	<ul style="list-style-type: none"> <li>➤ All lead work should ideally be undertaken by competent specialists</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A08</b>
<b>Task/Activity:</b>	Pre-Demolition Enabling Works	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Exposure to hazardous substances (Asbestos, lead etc)	X			X					15
2	Exposure to live services	X			X					15
3	Contaminated substances from historic use of the site		X			X				8
4	Fire caused by site clearance works	X				X				12
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing	X	Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ Comprehensive induction and training is required for all operatives to reinforce the inherent dangers of this work and to highlight the potential hazards which they may encounter</li> <li>➤ Staff need to be informed of the need for good hygiene</li> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All services to the site should be disconnected and isolated at the boundary to site before the start of works</li> <li>➤ A full Type 3 survey should be undertaken prior to the commencement of works</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All cuts and scratches should be treated and covered immediately to prevent infection</li> <li>➤ All known hazardous substances such as Asbestos</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smoking should not be permitted on the site</li> <li>➤ Regular coordination meetings should be held to ensure good communications are being maintained</li> </ul>

Physical Controls	Procedural Controls
<p>should be removed from the site prior to the start of works and clearance certificate issued</p> <p>➤</p>	<p>and that the safe systems of works are being maintained</p> <p>➤ All suspicious substances should be left intact and reported immediately to the works supervisor and works in the area stopped until the issue has been resolved</p> <p>➤</p>
HSE & Other Guidance	Comments
<p>➤</p>	<p>➤</p>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A09</b>
<b>Task/Activity:</b>	Site Access/Egress	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Impact/collision between site traffic and other road users		X			X				8
2	Muddy roads and pavements on the site approach roads	X						X		6
3	Restricted access for emergency vehicles		X			X				8
4	Increase in the number of large/heavy delivery vehicles	X							X	3
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers		Managers		Young Persons	
Others	X				

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ Banksmen/traffic coordinators to be given special training</li> <li>➤ All staff to be informed of traffic and parking restrictions such as no parking on the approach roads</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure police and other emergency services are kept informed about the works, particularly if any changes occur during the works</li> </ul>

<b>Physical Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure approach roads are kept clear of mud and other debris</li> <li>➤ Use banksman to assist with vehicular movements into and out of the site</li> <li>➤ Consider traffic control system to control traffic</li> </ul>	<b>Procedural Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure that adequate parking is made available for all the staff likely to be present on the site, if this is not practical, consider establishing a park and ride scheme</li> </ul>
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Physical Controls	Procedural Controls
<p>entering and exiting the site</p> <ul style="list-style-type: none"> <li>➤ Ensure a properly marked pedestrian path is identified</li> <li>➤ Ensure that pedestrian and vehicular traffic on the site are also separated</li> <li>➤ Provide a dedicated pedestrian access to and from the site</li> <li>➤ Ensure the site entrance and site roads are adequately illuminated</li> <li>➤ Ensure that sufficient warning signs are displayed on the approach roads to the site</li> </ul>	

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG144 The Safe Use of Vehicles on Construction Sites</li> </ul>	<ul style="list-style-type: none"> <li>➤ Consider signing up for the Considerate Contractors Scheme</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A10</b>
<b>Task/Activity:</b>	Site Setup	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Excavations		X				X			6
2	Fire		X			X				8
3	Lifting operations	X				X				12
4	Exposure to hazardous substances		X				X			6
5	Electricity	X				X				12
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection	X	Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
➤	➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work ➤ Plan the layout of the site before commencing works ➤ Ensure adequate water, electricity and drainage infrastructure can be provided and where it should be connected to

Physical Controls	Procedural Controls
➤ Ensure ground is capable of sustaining the loads of not only the site offices etc, but also for the crane and other vehicles which will be used at this time ➤ Ensure that operatives are issued with the	➤ Ensure that a suitable crane is available for all lifting operations ➤ Ensure all lifting operations are carefully planned and coordinated

Physical Controls	Procedural Controls
appropriate PPE, first aid kits and fire extinguishers etc as none will be available on site at this stage of the works	

HSE & Other Guidance	Comments
➤ HSG168 Fire Safety in Construction Work	➤ As this is often one of the first operations to take place on a new site, it is essential that the works are carefully planned to take account of any unforeseen conditions etc.



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A11</b>							
<b>Task/Activity:</b>	Storage and Use of Highly Flammable Liquids	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Fire	X				X				12
2	Explosion	X			X					15
3	Environmental Contamination	X				X				12
4										
5										
6										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others	X		X		

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All persons using HFL's to be provided with specific training to control the risks associated with its use, this should also include the use of fire extinguishers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ HFL's to be stored in appropriate containers which are clearly marked with its contents, the lids of all containers shall be securely fitted at all times</li> <li>➤ Containers will be stored in a well ventilated locked cage</li> <li>➤ All spillages will be cleared up immediately</li> </ul>	<ul style="list-style-type: none"> <li>➤ Minimise the quantities of HFL's held on site</li> <li>➤ Restrict access to the use of the materials</li> <li>➤ Smoking to be banned in the vicinity of all HFL's</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG168 Fire Safety in Construction Work</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Heinretta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A12</b>
<b>Task/Activity:</b>	Underground/Buried Services	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	General excavation hazards	X				X				12
2	Damaged pipes (gas, sewage, water, oil, chemicals etc)		X			X				8
3	Toxic/Flammable atmospheres		X			X				8
4	Electrocution		X		X					10
5										
6										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ Inform site manager and operatives of the location, type and position of underground services</li> <li>➤ All operatives should be trained in the requirements of HSG 47 Avoiding Danger From Underground Services</li> <li>➤ Plant operators should be trained to CPCS level</li> <li>➤ All operatives to be trained in emergency procedures to be followed in the event of a service strike</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All services should be assumed live until proved otherwise</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Confirm the location of services with a cable detection tool</li> <li>➤ Hand dig around services to avoid damage</li> </ul>	<ul style="list-style-type: none"> <li>➤ Obtain copies of services drawings and mark them out on the surface prior to starting work</li> <li>➤ Implement a permit to dig system</li> <li>➤ A detailed method statement outlining the work should also be provided</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG 47 Avoiding Danger from Underground Services</li> <li>➤ Construction Information Sheet No. 8 Safety in Excavations</li> <li>➤ HSG185 Health and Safety in Excavations: Be Safe and Shore</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A13</b>
<b>Task/Activity:</b>	Work Near Water	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Drowning		X		X					10
2	Hyperthermia		X			X				8
3	Ingestion of contaminated water		X				X			6
4										
5										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots	X	Buoyancy Aids	X

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ All operatives to be given specific training and information on the proposed safe systems of work</li> <li>➤ Training in the specific rescue procedures to be given to all operatives</li> <li>➤ Training in the use life jackets/buoyancy aids</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Workforce should be informed that disciplinary action will be taken against anyone interfering with safety/rescue equipment</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Safe working platform to be provided wherever possible, though where this is not practical life lines and a harness will be required</li> <li>➤ Workers should work in pairs at all times</li> <li>➤ Safety boat to be used where practical</li> </ul>	<ul style="list-style-type: none"> <li>➤ Check weather forecasts before starting work</li> <li>➤ Alarm to be raised immediately if anyone falls into the water</li> </ul>

HSE & Other Guidance	Comments
➤	➤

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A14</b>
<b>Task/Activity:</b>	Storage of Materials on Site	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falling materials (as a result of poorly stacked materials)		X			X				8
2	Injury to unauthorised persons such as children		X			X				8
3	Manual handling	X					X			9
4	Mechanical handling		X					X		4
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others	X				

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ Site operatives should be instructed of the need for good housekeeping standards and in maintaining a tidy well organised storage area</li> <li>➤ Operatives should be informed that all chemicals are potentially hazardous and should be handled with care – reference should also be made to the appropriate COSHH assessment before use</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Sufficient space should be provided for the safe storage of all materials</li> <li>➤ All areas to be regularly inspected to ensure the stability and safety of such areas</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Perishable goods should be stored within lockable containers</li> <li>➤ Pipes, drums and other similar materials should be securely chocked</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Follow manufacturers/suppliers storage recommendations in all cases</li> <li>➤ Avoid stacking any materials more than 2m high</li> <li>➤ All chemicals and fuel's shall be stored within bunded areas to reduce the risk of contamination</li> </ul>	
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A15</b>
<b>Task/Activity:</b>	Removal of Asbestos Cement Clad Door	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of asbestos dust/fibres (Mesothelioma, lung cancer and Asbestosis)	X			X					15
2	Manual handling	X						X		6
3										
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS				
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection
Hearing Protection		Eye Protection		Head Protection
Gloves	X	Boots		Class 5 Coveralls

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and RPE and trained in its use and application</li> <li>➤ All operatives to be provided with asbestos awareness training to recognise potential Asbestos Containing Materials (ACM's)</li> <li>➤ All operatives are to receive full training in the safe working practices associated with the work, this should include:               <ul style="list-style-type: none"> <li>○ Work methods and equipment needed to do the job properly</li> <li>○ The choice, use and maintenance of PPE</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Managers to ensure all safeguards are in place and that the appropriate PPE/RPE is provided and used</li> </ul>

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>○ Decontamination procedures</li> <li>○ Maintenance of control measures</li> <li>○ Emergency procedures</li> <li>○ Waste disposal</li> </ul>	
Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Restrict access to the work area and designate it as a Respirator Zone</li> <li>➤ Ensure all ACM's are kept damp to reduce fibre release</li> <li>➤ Spray any uncoated ACM's with a PVA glue solution</li> <li>➤ Unscrew the door at the hinges, do not cut, break or damage any part of the door</li> <li>➤ Double bag the entire door as asbestos waste in 1000 gauge polythene sheets, seal with duct tape, label the package with asbestos warning stickers and place in sealed container for disposal to a licensed site</li> </ul>	<ul style="list-style-type: none"> <li>➤ Detailed method statement will be required for all works involving asbestos</li> <li>➤ All works to be carried out under a permit to work system</li> <li>➤ Only one-off simple short duration activities will be permitted to be carried out by non HSE licenced contractors</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Control of Asbestos at Work Regulations and Approved Code of Practice</li> <li>➤ Asbestos (Licensing) Regulations</li> <li>➤ Introduction to Asbestos Essentials: Comprehensive Guidance on Working with Asbestos in the Building Maintenance and Allied Trades</li> <li>➤ A Comprehensive Guide to Managing Asbestos in Premises</li> <li>➤ Asbestos Essentials Task Manual: Task Guidance Sheets for the Building Maintenance and Allied Trades</li> </ul>	<ul style="list-style-type: none"> <li>➤ Medical surveillance should be initiated for all persons working with or exposed to asbestos</li> <li>➤ All work with Asbestos is potentially highly dangerous and should be carried out by appropriately licensed contractors in accordance with strict safety procedures</li> <li>➤ Non-licensed contractors may only be used where they have the necessary expertise and experience of working with ACM's; and where the work will not involve a single person working for more than 1 hour in seven consecutive days or the total time spent by all persons involved with the job will not exceed 2 hours</li> </ul>



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A16</b>
<b>Task/Activity:</b>	Removal of Asbestos Cement Flue Pipe	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of asbestos dust/fibres (Mesothelioma, lung cancer and Asbestosis)	X			X					15
2	Manual handling	X						X		6
3	Work at height		X				X			6
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X	Class 5 coveralls	X

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and RPE and trained in its use and application</li> <li>➤ All operatives to be provided with asbestos awareness training to recognise potential Asbestos Containing Materials (ACM's)</li> <li>➤ All operatives are to receive full training in the safe working practices associated with the work, this should include: <ul style="list-style-type: none"> <li>○ Work methods and equipment needed to do the job properly</li> <li>○ The choice, use and maintenance of PPE</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Managers to ensure all safeguards are in place and that the appropriate PPE/RPE is provided and used</li> </ul>

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>○ Decontamination procedures</li> <li>○ Maintenance of control measures</li> <li>○ Emergency procedures</li> <li>○ Waste disposal</li> </ul>	
Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Restrict access to the work area and designate it as a Respirator Zone</li> <li>➤ Ensure all ACM's are kept damp to reduce fibre release</li> <li>➤ Spray any uncoated ACM's with a PVA glue solution</li> <li>➤ Wherever possible, remove the flue pipes in whole sections by unscrewing any supports and brackets</li> <li>➤ If the flue pipe must be broken in order for it to be removed, the pipe must be thoroughly dampened and then wrapped in 1000 gauge polythene</li> <li>➤ The flue pipe should then be broken using a hammer, take care to ensure that all pieces of asbestos cement are retained within the polythene</li> <li>➤ Double bag all asbestos waste in polythene sheets, seal with duct tape, label the package with asbestos warning stickers and place in sealed container for disposal to a licensed site</li> </ul>	<ul style="list-style-type: none"> <li>➤ Detailed method statement will be required for all works involving asbestos</li> <li>➤ All works to be carried out under a permit to work system</li> <li>➤ Only one-off simple short duration activities will be permitted to be carried out by non HSE licenced contractors</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Control of Asbestos at Work Regulations and Approved Code of Practice</li> <li>➤ Asbestos (Licensing) Regulations</li> <li>➤ Introduction to Asbestos Essentials: Comprehensive Guidance on Working with Asbestos in the Building Maintenance and Allied Trades</li> <li>➤ A Comprehensive Guide to Managing Asbestos in Premises</li> <li>➤ Asbestos Essentials Task Manual: Task Guidance Sheets for the Building Maintenance and Allied Trades</li> </ul>	<ul style="list-style-type: none"> <li>➤ Medical surveillance should be initiated for all persons working with or exposed to asbestos</li> <li>➤ All work with Asbestos is potentially highly dangerous and should be carried out by appropriately licensed contractors in accordance with strict safety procedures</li> <li>➤ Non-licensed contractors may only be used where they have the necessary expertise and experience of working with ACM's; and where the work will not involve a single person working for more than 1 hour in seven consecutive days or the total time spent by all persons involved with the job will not exceed 2 hours</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A17</b>
<b>Task/Activity:</b>	Removal of Asbestos Cement Roof Sheets	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of asbestos dust/fibres (Mesothelioma, lung cancer and Asbestosis)	X			X					15
2	Manual handling	X						X		6
3	Work at height		X				X			6
4	Falls through on fragile roofs		X			X				8
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X	Class 5 coveralls	X

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and RPE and trained in its use and application</li> <li>➤ All operatives to be provided with asbestos awareness training to recognise potential Asbestos Containing Materials (ACM's)</li> <li>➤ All operatives are to receive full training in the safe working practices associated with the work, this should include:               <ul style="list-style-type: none"> <li>○ Work methods and equipment needed to do the job properly</li> <li>○ The choice, use and maintenance of PPE</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Managers to ensure all safeguards are in place and that the appropriate PPE/RPE is provided and used</li> </ul>

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>○ Decontamination procedures</li> <li>○ Maintenance of control measures</li> <li>○ Emergency procedures</li> <li>○ Waste disposal</li> </ul> <p>➤ All operatives to receive training in manual handling and working at height</p>	

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Restrict access to the work area and designate it as a Respirator Zone</li> <li>➤ All work should be carried out from a safe and secure working platform such as a MEWP</li> <li>➤ No access should be permitted on the roof itself due to the fragile nature of the material</li> <li>➤ If any weight needs to be placed on to the roof, crawl boards should be used to disperse and spread the load</li> <li>➤ Ensure all ACM's are kept damp to reduce fibre release</li> <li>➤ Wherever possible, remove all asbestos cement roofing sheets in whole sections by using bolt croppers to cut off the fixings and any other supports and brackets – take care to avoid contact with the asbestos cement sheets</li> <li>➤ Each sheet should be carefully lowered to the ground to avoid damaging it</li> <li>➤ Individual asbestos sheets can be double bagged in 1000 gauge polythene sheets, sealed with duct tape, and labelled with asbestos warning stickers, multiple sheets can be placed in a covered lockable skip for disposal to a licensed site</li> </ul>	<ul style="list-style-type: none"> <li>➤ Detailed method statement will be required for all works involving asbestos</li> <li>➤ All works to be carried out under a permit to work system</li> <li>➤ Only one-off simple short duration activities will be permitted to be carried out by non HSE licenced contractors</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Control of Asbestos at Work Regulations and Approved Code of Practice</li> <li>➤ Asbestos (Licensing) Regulations</li> <li>➤ Introduction to Asbestos Essentials: Comprehensive Guidance on Working with Asbestos in the Building Maintenance and Allied Trades</li> <li>➤ A Comprehensive Guide to Managing Asbestos in Premises</li> <li>➤ Asbestos Essentials Task Manual: Task Guidance Sheets for the Building Maintenance and Allied Trades</li> </ul>	<ul style="list-style-type: none"> <li>➤ Medical surveillance should be initiated for all persons working with or exposed to asbestos</li> <li>➤ All work with Asbestos is potentially highly dangerous and should be carried out by appropriately licensed contractors in accordance with strict safety procedures</li> <li>➤ Non-licensed contractors may only be used where they have the necessary expertise and experience of working with ACM's; and where the work will not involve a single person working for more than 1 hour in seven consecutive days or the total time spent by all persons involved with the job will not exceed 2 hours</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A18</b>
<b>Task/Activity:</b>	Removing Wall & floor Tiles	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Contact with sharp blades and other implements (knives, chisels, planes etc)		X			X				8
2	High noise levels	X						X		6
3	Manual handling	X					X			9
4	Sharp Edges from broken tiles	X					X			9
5	Falling Objects/Materials		X			X				8
6	Flying Particles/Splinters of Ceramic	X					X			9
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ All staff to be provided with training in safe lifting techniques, manual handling and working at height</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All power tools to be either cordless or low voltage (110v or less)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Daily checks of all equipment to be made prior to its use</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Restrict use of power tools to trained persons over the age of 18 years</li> <li>➤ Avoid trailing lead and keep walkways clear</li> <li>➤ Ensure adequate storage areas are provided for the collection of all waste and debris</li> <li>➤ Ensure safe access is provided to the working area</li> <li>➤ Clear up all waste material on a regular basis</li> <li>➤ Use of a long handle tile scraper is to be used where practical</li> </ul>	<ul style="list-style-type: none"> <li>➤ Clear debris and waste on a regular basis</li> <li>➤ Avoid working from ladders and other temporary platforms, ensure an adequate safe working platform is always provided</li> <li>➤ Ensure a first aider is present</li> <li>➤ No tiles to be removed from above head height at any time, tiles located above 1.8m are to be removed with consideration to tiles falling on to personnel</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Getting to Grips with Manual Handling (INDG 143)</li> <li>➤ Provision and Use of Work Equipment Regulations</li> <li>➤ Control of Noise at Work Regulations</li> <li>➤ Control of Vibration at Work Regulation</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A19</b>
<b>Task/Activity:</b>	Removing Windows	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Contact/Entanglement with moving parts of power tools (ie: Drills, saws etc)			X		X				4
2	Contact with sharp blades and other implements (knives, chisels, planes etc)		X			X				8
3	High noise levels	X						X		6
4	Hand arm vibration	X						X		6
5	Inhalation of dusts		X					X		4
6	Ejection of damaged tools and other materials			X			X			3
7	Manual handling	X					X			9
8	Electric shock from damaged/worn equipment			X				X		2
9	Misuse of tools			X				X		2
10	Hazardous materials (stains, glues, lubricants etc)			X				X		3
11	Sharp Edges from broken glass	X					X			9
12	Falling Objects/Materials		X			X				8

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ All staff to be provided with training in safe lifting techniques, manual handling and working at height</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE is made available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All power tools to be either cordless or low voltage (110v or less)</li> <li>➤ Restrict use of power tools to trained persons over the age of 18 years</li> <li>➤ Avoid trailing lead and keep walkways clear</li> <li>➤ Ensure adequate storage areas are provided</li> <li>➤ Ensure safe access is provided to the working area</li> <li>➤ Clear up all breakages immediately</li> <li>➤ Use approved suction pads to lift and handle glass sheets</li> </ul>	<ul style="list-style-type: none"> <li>➤ Daily checks of all equipment to be made prior to its use</li> <li>➤ Carry out COSHH assessment on all substances used, wherever possible substitute for less hazardous substance</li> <li>➤ Clear debris and waste on a regular basis</li> <li>➤ Avoid working from ladders and other temporary platforms, ensure an adequate safe working platform is always provided</li> <li>➤ Ensure a first aider is present within each glazing team</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Provision and Use of Work Equipment Regulations</li> <li>➤ Management of Health and Safety at Work Regulations</li> <li>➤ Getting to Grips with Manual Handling (INDG 143)</li> <li>➤ Control of Noise at Work Regulations</li> <li>➤ Control of Vibration at Work Regulation</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A20</b>							
<b>Task/Activity:</b>	Use of Banksmen (for reversing vehicles)	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity				Risk Score	
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Operatives being struck by vehicles		X		X					10
2	Traffic colliding with stationary plant, materials or equipment		X			X				8
3	Impact with plant and/or other traffic		X				X			6
4	Contact with overhead services			X		X				4
5										
6										
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves		Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ All operatives to be informed and instructed of the risk and hazards of working adjacent to live traffic</li> <li>➤ Appropriately qualified site supervisor trained in accordance with the NRSWA to be on site at all times</li> <li>➤ All banksmen should be properly trained and competent to fulfil the role of a banksman, including being familiar with the necessary standard hand signals to aid and assist drivers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All banksman will wear high visibility clothing at all times, this should be distinct colour to differentiate them from other workers on the site, for instance if yellow is the standard high vis colour, banksmen should be provided with day-glo orange hi visibility clothing</li> <li>➤ The banksman is to stay in full visibility of the driver (via his mirrors) at all times, the driver should stop moving if he loses sight of the banksman</li> <li>➤ The banksman should stand in a safe position, from which to guide the reversing vehicle without being in its way</li> <li>➤ Where vehicles reverse up to structures or edges, barriers or wheel stops can be used to warn drivers that they need to stop</li> <li>➤ Ensure that all other pedestrians are kept clear of any reversing operation and have a safe dedicated pedestrian access route around the site</li> </ul>	<ul style="list-style-type: none"> <li>➤ All traffic management schemes are to be designed in accordance with Chapter 8 of the NRSWA</li> <li>➤ Operatives will always face the traffic when setting out cones, barriers and signs etc</li> <li>➤ The site should be planned and laid out so as to eliminate or at least minimise the need for reversing operations</li> <li>➤ Where reversing cannot be eliminated, specific turning areas should be provided to assist vehicles</li> <li>➤ No vehicle shall be permitted to reverse unless being guided by an approved competent banksman</li> <li>➤ All vehicles should be equipped with automatic audible reversing alarms to warn others in the vicinity</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ CIS No. 52 – Crossing High Speed Roads on Foot During Temporary Traffic Management Works</li> <li>➤ Safety at Street Works and Road Works – A Code of Practice</li> <li>➤ HSG144 The Safe Use of Vehicles on Construction Sites</li> </ul>	<ul style="list-style-type: none"> <li>➤ Consider whether portable radios or similar communication systems would be helpful</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A21</b>
<b>Task/Activity:</b>	Stripping Plaster/Plasterboard from Ceilings and Walls	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of dust	X					X			9
2	Contact with sharp blades and other implements (knives, saws etc)		X			X				8
3	High noise levels	X						X		6
4	Manual handling	X					X			9
5	Sharp Edges and protruding nails	X					X			9
6	Falling Debris/Materials		X			X				8
7	Slips trips and falls		X				X			6
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	X
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ All staff to be provided with training in safe lifting techniques, manual handling and working at height</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Ensure adequate storage areas are provided for the storage of all waste material and debris</li> <li>➤ Ensure safe access is provided to the working area</li> </ul>	<ul style="list-style-type: none"> <li>➤ Clear debris and waste on a regular basis</li> <li>➤ Avoid working from ladders and other temporary platforms, ensure an adequate safe working platform</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Establish an exclusion zone around the working area to prevent unauthorised access</li> <li>➤ Clear up all waste material on a regular basis</li> <li>➤ Use of a long handle demolition/wrecking bar is to be used where practical to keep as much distance between the material being removed and the operatives</li> <li>➤ Do not remove plasterboard from ceilings by kicking it down from above!</li> </ul>	<p>is always provided</p> <ul style="list-style-type: none"> <li>➤ No material to be removed from above head height whilst any person is standing below</li> <li>➤ Do not allow any person to stand below/adjacent to any partially secured sheets of ceiling or wallboard</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Getting to Grips with Manual Handling (INDG 143)</li> <li>➤ Provision and Use of Work Equipment Regulations</li> <li>➤ Control of Noise at Work Regulations</li> <li>➤ Control of Vibration at Work Regulation</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A22</b>							
<b>Task/Activity:</b>	Working with Mineral Wools	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of fibres/dust		X				X			6
2	Irritation to skin		X					X		4
3	Manual handling	X						X		6
4	Contact with sharp blades		X				X			6
5	Work in confined spaces		X					X		4
6										
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection		Head Protection	
Gloves	X	Boots		Overalls	X

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Adequate hygiene facilities are to be provided including washbasins, soap, nail brushes and towels</li> <li>➤ Ensure that the work area is well ventilated at all times.</li> <li>➤ FFP3 grade respirators to be worn at all times</li> </ul>	<ul style="list-style-type: none"> <li>➤ Smoking, eating and drinking is to be prohibited when working with mineral wools</li> <li>➤ Permit to work required for all work involving work in a confined space</li> <li>➤ All operatives to ensure that a high standard of</li> </ul>

Physical Controls	Procedural Controls
	personnel hygiene is maintained at all times

HSE & Other Guidance	Comments
➤ Control of Substances Hazardous to Health Regulations	➤

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>A23</b>							
<b>Task/Activity:</b>		<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					10/7/11
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives		Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
➤	➤

Physical Controls	Procedural Controls
➤	➤

HSE & Other Guidance	Comments
➤	➤

**SECTION B**

**USE OF PLANT, TOOLS AND OTHER  
EQUIPMENT**



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B01</b>
<b>Task/Activity:</b>	Abrasive Wheels	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Burst wheel/disc		X				X			6
2	Flying debris from wheel/disc		X				X			6
3	Flying debris from material being cut/ground		X				X			6
4	Noise/Vibration	X						X		6
5	Inhalation of dust	X						X		6
6	Contact with cutting wheel/disc		X			X				8
7	Entanglement of clothing in moving parts			X			X			3
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All persons changing abrasive wheels/cutting discs shall be trained in accordance with the requirements of current regulations</li> <li>➤ All operatives to be trained in the selection and use of abrasive wheels/ cutting discs</li> <li>➤ All operatives using abrasive wheels should be instructed to warn other persons in the area who may be affected by their work and ensure that they remain at a safe distance</li> <li>➤ All operatives to be trained in the use of the appropriate PPE</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Only competent fully trained persons shall be authorised to change/mount abrasive wheels, all such persons shall be formally appointed by the company and recorded on a central register</li> <li>➤ The register shall be maintained together with copies of training certificates for all persons qualified/authorises to change abrasive wheels</li> <li>➤ Managers to ensure that sufficient supplies of the correct type of cutting disc/wheel are always available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All wheels/discs to be inspected prior to use/mounting</li> <li>➤ Checks to be made to ensure the correct disc has been selected</li> <li>➤ Operators shall not apply excessive pressure to the disc during the cutting operation and shall ensure that the correct speed is used for the disc</li> <li>➤ Adequate and appropriate storage facilities to be provided for the storage of cutting discs/wheels and associated equipment</li> <li>➤ All required PPE as stated above shall be inspected and assessed for its suitability prior to use</li> <li>➤ No loose clothing or other material shall be worn or in the vicinity of the cutting operation</li> <li>➤ Operators shall only commence cutting operations when it is safe to do and they shall ensure that they have a firm footing at all times</li> <li>➤ Ensure guards are properly positioned to minimise the risk of injury should the cutting disc/wheel fail</li> </ul>	<ul style="list-style-type: none"> <li>➤ Disc cutters and abrasive wheels shall only be used by appropriately trained and competent persons</li> <li>➤ Staff to ensure that the area adjacent to the cutting operations are either kept clear or that sufficient shielding is provided to guard other operatives/members of the public from flying sparks, dust and other debris</li> <li>➤ Ensure adequate ventilation is provided in areas where ventilation is poor</li> <li>➤ Where there is a potential fire risk, ensure an appropriate fire extinguisher is available</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG17 Safety In the Use of Abrasive Wheels</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B02</b>
<b>Task/Activity:</b>	Chain Saws	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Contact with cutting chain		X			X				8
2	Noise/Vibration	X					X			9
3	Working at height	X				X				12
4	Flying debris and dust	X						X		6
5	Kick back	X						X		6
6	Inhalation of toxic fumes		X					X		4
7	Fire (from fuel spilling onto hot exhaust)		X			X				8
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X	Chain Clogging Clothing	X

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives to be instructed in the safe system of work for the proposed operation</li> <li>➤ Training to be provided in the selection and use of the appropriate protective clothing and equipment</li> <li>➤ All operatives to be trained and competent in the use of chainsaws including its maintenance, inspection, refuelling, starting and storage</li> <li>➤ Other persons in the vicinity to be informed of the risks from noise, dust, fumes and flying debris etc</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ The use of chain saws shall not be permitted by persons under the age of 18 years</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Chainsaws shall not be used above waist height</li> <li>➤ Operators shall always be securely footed when using chainsaws</li> <li>➤ Chainsaws shall not be used from ladders</li> <li>➤ Chain guards shall be used whenever the chainsaw is not in use</li> <li>➤ When working at height the operator shall be secured with a harness and lanyard</li> <li>➤ Care should be taken when refuelling chainsaws to ensure no fuel is spilt on to the exhaust which may in turn cause a fire hazard</li> </ul>	<ul style="list-style-type: none"> <li>➤ All chainsaws shall be carefully checked prior to use</li> <li>➤ Chainsaws shall be securely and safely stored within an appropriate storage store</li> <li>➤ Right handed chain saws shall not be used by left handed persons and vice versa</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B03</b>
<b>Task/Activity:</b>	Electrical Hand Tools/Equipment	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Electrocution			X	X					5
2	Noise/vibration		X				X			6
3	Flying particles from the material being worked		X					X		4
4	Flying particles from damaged tools			X			X			3
5	Trailing cables		X					X		4
6	Entanglement with moving parts			X			X			3
7	Sudden/unexpected movement of the tool		X					X		4
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives and others in the area should be advised when noise, dust and other flying particles are likely to be present</li> <li>➤ All operatives should be instructed in how to inspect and check the equipment prior to using it</li> <li>➤ All operatives to be trained in the use, selection and storage of the tools they use</li> <li>➤ At least one person on site shall have received training in electric shock treatment</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All electrical power tools to be 110v or less</li> <li>➤ Power sockets shall not be overloaded</li> </ul>	<ul style="list-style-type: none"> <li>➤ A planned preventative maintenance system shall be implemented whereby all equipment shall be regularly</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ The supply voltage shall always be within the operating range of the selected tool</li> <li>➤ Trailing cables shall be managed to reduce the risk of slips, trips and falls</li> <li>➤ All tools shall be earthed or double insulated</li> <li>➤ Temporary and impromptu repairs shall not be allowed</li> <li>➤ All tools and cables shall be inspected before use</li> <li>➤ Transformers shall be centre tapped to earth</li> <li>➤ When not in use, all tools shall be disconnected from its electrical supply</li> <li>➤ All damaged and defective equipment shall immediately be taken out of use, reported to the supervisor and marked as being defective</li> </ul>	<p>inspected, tested and maintained in accordance with manufacturers recommendations</p> <ul style="list-style-type: none"> <li>➤ Where equipment is to be used in damp or confined spaces, management shall be responsible for ensure the correctly rated equipment is made available</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSE Guidance Notes – Safe Use of Portable Electrical Equipment</li> <li>➤ Electricity on Construction Sites</li> <li>➤ HSE Information Sheet – Maintenance of Portable Electrical Equipment</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B04</b>
<b>Task/Activity:</b>	Excavators	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Impact of machine with persons or other objects		X		X					10
2	Contact with live power cables		X			X				8
3	Overturning of machine/collapse of ground beneath machine			X		X				4
4	Excavator arm dropping inadvertently			X				X		2
5	Falling material		X					X		4
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection	X	Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>All machine drivers are to be competent for the specific plant they operate, this should include formal certification to CPCS or equivalent</li> <li>All drivers to be informed of main traffic and pedestrian routes together with any traffic management details</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>Management to ensure that the correct excavator for the job has been selected</li> </ul>

<b>Physical Controls</b> <ul style="list-style-type: none"> <li>No persons to be permitted within the operating range of the machine without the operators permission</li> <li>Loads must not be slued over persons, site accommodation or other occupied areas</li> </ul>	<b>Procedural Controls</b> <ul style="list-style-type: none"> <li>Supervisors are to ensure safe excavating techniques are implemented at all time, including the identification of buried and overhead services</li> </ul>
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Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ A banks man should be used to assist the machine operator when excavating and traversing</li> <li>➤ All machines shall be inspected before and after use</li> <li>➤ If the machine is to be left unattended the keys shall be removed and the excavator secured</li> <li>➤ A minimum distance of 600mm shall be left between the outer radius of the machine and any structures/obstructions</li> <li>➤ Care to be taken when operating on inclines and when traversing slopes</li> </ul>	

HSE & Other Guidance	Comments
➤	➤



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B05</b>
<b>Task/Activity:</b>	Excavators Used for Lifting	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Unintended movement, release or dropping of the load		X			X				8
2	Contact with overhead obstruction/cable			X			X			3
3	Impact with person			X		X				4
4										
5										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ All machine drivers are to be competent for the specific plant they operate, this should include formal certification to CPCS or equivalent</li> <li>➤ Competent, experienced and trained slinger to be used to sling loads and direct machine operator</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Management to ensure that the correct excavator for the job has been selected</li> <li>➤ Only excavators with a valid test certificate shall be used for lifting operations</li> <li>➤ Only chains, slings and other lifting accessories with a valid test certificate shall be used for lifting operations</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ No persons to be permitted within the operating range of the machine without the operators permission</li> <li>➤ Loads must not be slued over persons, site accommodation or other occupied areas</li> <li>➤ A banks man should be used to assist the machine operator when excavating and traversing</li> </ul>	<ul style="list-style-type: none"> <li>➤ SWL of the excavator must be clearly identified on the machine and should not be exceeded</li> <li>➤ The weight of the item to be lifted shall be assessed prior to the lifting operation</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All machines shall be inspected before and after use</li> <li>➤ The machine shall be sited on a firm, level base</li> </ul>	
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B06</b>
<b>Task/Activity:</b>	telehandlers	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Overturning		X			X				8
2	Objects falling from forks		X				X			6
3	Impact/collision with another object/vehicle/person		X		X					10
4	Noise/Vibration		X					X		4
5										
6										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection	X	Eye Protection		Head Protection	X
Gloves		Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>Fork lift truck (FLT) drivers to be trained to CPCS standards</li> <li>FLT drivers to be informed of all traffic management requirements and restrictions</li> </ul>	<ul style="list-style-type: none"> <li>Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>Ensure plant and equipment is properly maintained and certified</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>Ensure pedestrian and vehicular routes are clearly defined and separated</li> <li>Assess suitability of and maintained traffic routes</li> <li>FLT's to be operated within manufacturers limits</li> <li>All loads to be checked for stability and security prior to movement</li> <li>Driver to make daily inspection and checks to ensure its effectiveness</li> <li>Engine to be turned off, key removed and hand brake applied when left unattended</li> <li>Additional care to be taken when driving across</li> </ul>	<ul style="list-style-type: none"> <li>Implement site speed restriction</li> <li>Passengers shall not be carried on FLT's</li> </ul>

Physical Controls	Procedural Controls
<p>slopes and inclines</p> <p>➤ Banks man to be used to assist with loading and general site movements</p>	

HSE & Other Guidance	Comments
<p>➤ HSG6 Safety in Working With Lift Trucks</p>	<p>➤</p>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B07</b>
<b>Task/Activity:</b>	Hydraulic and Pneumatic Tools/Equipment	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Hydraulic fluids		X				X			6
2	Compressed air		X				X			6
3	Failure of hoses or couplings			X				X		2
4	Flying debris		X				X			6
5	Noise/Vibration	X					X			9
6	Manual handling	X					X			9
7	Inhalation of exhaust fumes			X				X		2
8	Unanticipated movement of tools		X					X		4
9										
10										

<b>Risk Assessment Scores:</b>	10+ Very High Risk	5-9 High Risk	1-4 Low Risk
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives to be informed of the health risks from hydraulic fluids and compressed air</li> <li>➤ Operatives to receive full training in the use, storage, and general care of equipment</li> <li>➤ Full manual handling training to be provided to all operatives</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Wherever possible, ensure anti-vibration tools are used</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Duration of exposure to be controlled to reduce the risk of vibration related illnesses</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure correct tool for the job has been selected</li> <li>➤ All damaged tools, hoses and other equipment shall be taken out of use and reported to the site supervisor</li> </ul>

HSE & Other Guidance	Comments
➤ HSG39 Compressed Air Safety	➤

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B08</b>
<b>Task/Activity:</b>	Lifting Equipment	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Failure of equipment/accessories			X	X					5
2	Movement of load		X				X			6
3	Dropping of load			X	X					5
4	Weather conditions (eg: high wind)		X				X			6
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ Only competent trained operators to at least CPCS standard shall operate any crane</li> <li>➤ All lifting operations will be co-ordinated by an Appointed Person as required by LOLER98</li> <li>➤ A competent and appropriately trained slinger shall ensure all loads are correctly slung prior to lifting</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All lifting operations should have a lifting plan which details the safe working procedures, nominated persons and details of the lifting strategy</li> <li>➤ All lifting equipment and accessories shall subject to statutory inspections</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All equipment shall be checked and inspected for damage prior to use</li> <li>➤ Packing shall be used to protect slings from sharp</li> </ul>	<ul style="list-style-type: none"> <li>➤ All equipment and accessories are to be individually identified and carefully stored to prevent damage</li> </ul>

Physical Controls	Procedural Controls
<p>edges</p> <p>➤ Guy ropes shall be used to help control and direct loads during lifting operations, particularly on large items which may be subject to wind effects</p>	

HSE & Other Guidance	Comments
<p>➤</p>	<p>➤ Lifting operations are a potentially high hazard activity which can affect many persons, as such they should always be carefully planned and coordinated</p>



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B09</b>
<b>Task/Activity:</b>	Other Hand Tools/Equipment	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Splintering/shattering tools			X			X			3
2	Sharp blades/edges		X				X			6
3	Manual handling		X				X			6
4	Damaged tools		X					X		4
5	Incorrect tool for the job			X			X			3
6										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ General awareness training required, together with specific training for any unusual tools</li> <li>➤ Operatives should be trained to clean, store and maintain all tools</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Appropriate PPE to be worn</li> <li>➤ Damage tools to be returned to the supervisor</li> <li>➤ All tools shall be regularly inspected and maintained</li> <li>➤ Tools should only be used for their intended purpose</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B10</b>
<b>Task/Activity:</b>	Welding	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.  Score:	Probable 3	Occasional 2	Remote 1	Catastrophic 5	Critical 4	Serious 3	Marginal 2	Negligible 1	Likelihood x Severity
1	Fire risk from welding equipment, hot metals and sparks causing the ignition of other flammable materials/gases	X				X				12
2	Explosion risk from gas cylinders		X		X					10
3	Damage to the eye's from ultra violet and infra red radiation	X				X				12
4	Prolonged exposure to heat		X					X		4
5	Molten metal particles			X			X			3
6	Production of toxic gases and fumes		X				X			6
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ All persons to be informed of when and where welding operations are to take place so that precautions can be taken to protect other workers in the area</li> <li>➤ Only competent experienced and trained welders shall be permitted to carry out welding operations</li> <li>➤ All welding operatives and site supervisors to be trained in fire prevention and in the use of fire extinguishers</li> <li>➤ All welding operatives to be informed of site specific hazards and restrictions which may impact on their works</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Specific and specialised PPE is required for those carrying out welding operations, together with other who may be affected by the works. Management shall ensure that the appropriate PPE is always available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Any potentially flammable materials and debris in the vicinity of the welding operations shall be removed prior to the commencement of work</li> <li>➤ All equipment shall be inspected and checked prior to use, paying particular attention to gas cylinders and hoses to ensure there is no risk of a gas leak</li> <li>➤ Where practical and wherever necessary from a fire prevention perspective, fireproof sheets and screens shall be erected to contain any sparks etc</li> <li>➤ Where a build of fumes is likely, or where heat stress is a potential concern, additional forced ventilation should be introduced</li> <li>➤ Extraction units should be used to minimise the risk from fumes, though care should be taken to ensure the exhaust does not create a hazard for other persons</li> </ul>	<ul style="list-style-type: none"> <li>➤ All welding operations will be carried out in accordance with a strict Hot Works Permit system, this will be strictly enforced by site supervisors and operatives at all times</li> <li>➤ Consider the use of a second persons for all welding operations</li> <li>➤ No hot works should be carried out within 1 hour of the site's closure</li> <li>➤ All areas where welding works have been carried out shall be inspected prior to the daily closure of the site to ensure no fire risk remains</li> <li>➤ Checks should always be made to ensure no other activities which may combine to generate a potentially hazardous situation exist, examples include the use of certain solvent based paints and adhesives and certain coatings which may have previously been applied to the metal being worked</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG118 Electrical Safety in Arc Welding</li> <li>➤ BSEN 470 Protective Clothing for use in the Welding and Allied Industries</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B11</b>
<b>Task/Activity:</b>	Slinging of Loads	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Failure of lifting accessories/slings			X	X					5
2	Dropping of load/Falling objects		X		X					10
3	Load/lifting accessories snagging on another fixed object		X				X			6
4	Personnel becoming entangled with load/lifting accessories			X		X				4
5	Contact with/arcing from overhead power cables			X		X				4
6	Incorrectly slung load		X		X					10
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ Only competent trained operators to at least CPCS standard shall operate any crane</li> <li>➤ All lifting operations will be co-ordinated by an Appointed Person as required by LOLER98</li> <li>➤ A competent and appropriately trained slinger shall ensure all loads are correctly slung prior to lifting</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All lifting operations should have a lifting plan which details the safe working procedures, nominated persons and details of the lifting strategy</li> <li>➤ All lifting equipment and accessories shall subject to statutory inspections</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All equipment shall be checked and inspected for damage prior to use</li> <li>➤ Packing shall be used to protect slings from sharp</li> </ul>	<ul style="list-style-type: none"> <li>➤ All equipment and accessories are to be individually identified and carefully stored to prevent damage</li> </ul>

Physical Controls	Procedural Controls
<p>edges</p> <ul style="list-style-type: none"> <li>➤ Guy ropes shall be used to help control and direct loads during lifting operations, particularly on large items which may be subject to wind effects</li> <li>➤ Every load should be carefully assessed to establish its centre of gravity and to determine the most applicable method of slinging</li> </ul>	
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lifting operations are a potentially high hazard activity which can affect many persons, as such they should always be carefully planned and coordinated</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B12</b>
<b>Task/Activity:</b>	Mini Excavators and Dumpers	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Overturning		X			X				8
2	Falls into excavations		X			X				8
3	Noise/vibration		X					X		4
4	Impact with pedestrians			X			X			3
5	Impact with other vehicles			X			X			3
6	Falls from the dump truck		X				X			6
7	Contact with live power cables		X			X				8
8	Overturning of machine/collapse of ground beneath machine			X		X				4
9	Excavator arm dropping inadvertently			X				X		2
10	Falling material		X					X		4

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	
Hearing Protection	X	Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ All drivers to be competent and trained to CPC standard or equivalent</li> <li>➤ All drivers to have full driving licences</li> <li>➤ Drivers to be trained to carry out basic safety checks before use</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Only competent and appropriately trained drivers over the age of 18 years to be permitted to drive dump trucks or excavators</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Driver to dismount dumpers whilst it is being loaded</li> <li>➤ Seat belts are to be secured at all times</li> <li>➤ All dump trucks and mini excavators are to be fitted with a Roll Over Protection System (ROPS)</li> <li>➤ Handbrake to be applied whenever the vehicles are stationary, tipping, excavating, loading or being loaded</li> <li>➤ Driver to ensure there are no projecting elements before proceeding</li> <li>➤ Dump truck and excavator engines to be turned off, keys removed, hand brake applied and wheels chocked whenever it is left unattended</li> <li>➤ A banksman shall be used for all reversing and tipping operations</li> <li>➤ A minimum distance of 600mm shall be left between the outer radius of the machine and any structures/obstructions</li> <li>➤ Extra care and caution should be exercised whenever working on slopes, especially when crossing the gradient</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure all equipment is regularly inspected and maintained in accordance with the manufacturer's recommendations and statutory requirements</li> <li>➤ Supervisors are to ensure safe excavating techniques are implemented at all time, including the identification of buried and overhead services</li> <li>➤ Any driver suspected to be under the influence of alcohol shall not be permitted to drive or operate any dump truck or excavator and should be removed from site</li> <li>➤ Passengers should never be carried on any dump truck or excavator unless it has been specifically designed for that purpose</li> <li>➤ Speed limits to be strictly enforced</li> <li>➤ Adequate site lighting shall be provided during periods of operation in poor light</li> <li>➤ Clearly marked pedestrian routes shall be identified on site to ensure vehicular and pedestrian traffic are kept separate</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSE Guidance – Working with Small Dump Trucks</li> <li>➤ HSG144 The Safe Use of Vehicles on Construction Sites</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B13</b>
<b>Task/Activity:</b>	Petrol disc cutter	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Burst wheel/disc		X				X			6
2	Flying debris from wheel/disc		X				X			6
3	Flying debris from material being cut		X				X			6
4	Noise/Vibration	X						X		6
5	Inhalation of dust	X						X		6
6	Contact with cutting wheel/disc		X			X				8
7	Entanglement of clothing in moving parts			X			X			3
8	Impact with adjacent vehicles/road users			X		X				4
9	Fire – petrol coming into contact with hot surfaces		X				X			6
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All persons changing abrasive wheels/cutting discs shall be trained in accordance with the requirements of current regulations</li> <li>➤ All operatives to be trained in the selection and use of abrasive wheels/cutting discs and Stihl Saws</li> <li>➤ All operatives using Stihl Saws should be instructed to warn other persons in the area who may be affected by their work and ensure that they remain at a safe distance</li> <li>➤ All operatives to be trained in the use of the appropriate PPE</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Only competent fully trained persons shall be authorised to change/mount abrasive wheels, all such persons shall be formally appointed by the company and recorded on a central register</li> <li>➤ The register shall be maintained together with copies of training certificates for all persons qualified/authorised to change abrasive wheels and cutting discs</li> <li>➤ Managers to ensure that sufficient supplies of the correct type of cutting disc/wheel are always available</li> </ul>



Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All wheels/discs to be inspected prior to use/mounting</li> <li>➤ Checks to be made to ensure the correct disc/blade has been selected</li> <li>➤ Operators shall not apply excessive pressure to the disc during the cutting operation and shall ensure that the correct speed is used for the disc</li> <li>➤ Where the work involves cutting road surfaces etc, ensure that the surface is kept damp/wet to reduce the extent of dust</li> <li>➤ Adequate and appropriate storage facilities to be provided for the storage of cutting discs/wheels and associated equipment</li> <li>➤ All required PPE as stated above shall be inspected and assessed for its suitability prior to use</li> <li>➤ No loose clothing or other material shall be worn or in the vicinity of the cutting operation</li> <li>➤ Operators shall only commence cutting operations when it is safe to do and they shall ensure that they have a firm footing at all times</li> <li>➤ Ensure guards are properly positioned to minimise the risk of injury should the cutting disc/wheel fail</li> <li>➤ Where work is to be carried out in/adjacent to the public highway, or any site road/haulage route all staff will be required to wear hi-visibility clothing and erect appropriate traffic signage in accordance with Chapter 8 of the NRSWA</li> </ul>	<ul style="list-style-type: none"> <li>➤ Stihl saws shall only be used by appropriately trained and competent persons</li> <li>➤ Staff to ensure that the area adjacent to the cutting operations are either kept clear or that sufficient shielding is provided to guard other operatives/members of the public from flying sparks, dust and other debris</li> <li>➤ Ensure adequate ventilation is provided in areas where ventilation is poor</li> <li>➤ Where there is a potential fire risk, ensure an appropriate fire extinguisher is to be made available</li> <li>➤ All damaged discs and cutting wheels are to be taken out of use and disposed of</li> <li>➤ Ensure that fuel is properly and securely stored away from sources of heat and ignition</li> <li>➤ Never refuel the saw whilst it is turned on</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG17 Safety In the Use of Abrasive Wheels</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B14</b>
<b>Task/Activity:</b>	Use of Electric Concrete Breakers	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Hand arm vibration	X					X			9
2	Excessive noise levels	X					X			9
3	Manual handling	X					X			9
4	Electrocution from damaged cables or short circuits			X			X			3
5	Inhalation of dust	X						X		6
6	Impact with adjacent vehicles/road users			X		X				4
7	Unanticipated movement of tools		X					X		4
8	Flying debris		X					X		4
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing	X	Respiratory Protection	X
Hearing Protection	X	Eye Protection	X	Head Protection	X
Anti-vibration Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures for the tools being used</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ Operatives to receive full training in the use, storage, and general care of equipment</li> <li>➤ Full manual handling training to be provided to all operatives</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Select low vibration and low noise models when procuring plant and equipment</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Limit duration of exposure to reduce the level of risks from exposure to high noise and vibration levels</li> <li>➤ Only 110v or less tools are to be used</li> <li>➤ Trailing cables shall be managed to reduce the risk of slips, trips and falls</li> <li>➤ All breakers shall be earthed or double insulated</li> <li>➤ Temporary and impromptu repairs to power cables shall not be allowed</li> <li>➤ All tools and cables shall be inspected before use</li> <li>➤ Transformers shall be centre tapped to earth</li> <li>➤ When not in use, all tools shall be disconnected from its electrical supply</li> <li>➤ All damaged and defective equipment shall immediately be taken out of use, reported to the supervisor and marked as being defective</li> </ul>	<ul style="list-style-type: none"> <li>➤ A planned preventative maintenance system shall be implemented whereby all equipment shall be regularly inspected, tested and maintained in accordance with manufacturers recommendations</li> <li>➤ Ensure correct tool for the job has been selected</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSE Guidance Notes – Safe Use of Portable Electrical Equipment</li> <li>➤ Electricity on Construction Sites</li> <li>➤ HSE Information Sheet – Maintenance of Portable Electrical Equipment</li> <li>➤ INDG296 Hand Arm Vibration – Advice for Employees</li> <li>➤ INDG362 Noise at Work – Advice for Employers</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>B15</b>							
<b>Task/Activity:</b>		<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives		Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
➤	➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work

<b>Physical Controls</b>	<b>Procedural Controls</b>
➤	➤

<b>HSE &amp; Other Guidance</b>	<b>Comments</b>
➤	➤

## CONSTRUCTION RISK ASSESSMENTS

Project Title:		Risk Assess. No.:		<b>B16</b>						
Task/Activity:		Project No.:		Ash/11/01						
		Date Prepared:		10/7/11						
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
Risk Assessment Scores:		10+ Very High Risk			5-9 High Risk			1-4 Low Risk		

PERSONS AFFECTED					
Operatives		Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
➤	➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work

Physical Controls	Procedural Controls
➤	➤

HSE & Other Guidance	Comments
➤	➤

# **SECTION C**

## **WORK AT HEIGHT/ON ROOFS**

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C01</b>
<b>Task/Activity:</b>	Access Scaffolds	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls from height			X	X					5
2	Falling objects		X			X				8
3	Collapse/failure of the structure			X	X					5
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ Only competent and experienced scaffolders shall be permitted to erect, modify or dismantle any scaffold</li> <li>➤ Scaffolders shall hold a valid CITB/CSCS certificate in scaffolding</li> <li>➤ Persons inspecting scaffolds shall also be competent to do so and have the appropriate CSCS certification</li> <li>➤ All users of the scaffold shall be trained to identify potential defects and inadequacies in the scaffold and the measures to be taken in such instances</li> <li>➤ All users of the scaffold to be made aware of the dangers of making unauthorised modifications to the scaffold, such as the removal of guard rails and scaffold ties</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All scaffolds shall be erected in accordance with BS5973 by competent scaffold, certified scaffolders</li> <li>➤ Where scaffolds are to be erected on the public highway, suitable lighting and other protective measures shall be implemented to protect other road users and the scaffold itself</li> </ul>

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
➤ No worker shall be permitted to throw any object of a scaffold	
Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All scaffolds shall be constructed with double guard rails and fixed toe boards</li> <li>➤ Scaffolds shall always be constructed on level, solid foundations</li> <li>➤ Where there is a risk of falling objects or other materials, the scaffold will be fitted with brick guards, debris netting or protective fans</li> <li>➤ All ladders shall be securely tied off and guarded to prevent accidental falls</li> </ul>	<ul style="list-style-type: none"> <li>➤ No scaffolding will be used until it is complete and has been fully inspected by a competent person</li> <li>➤ All scaffolds will be subject to additional inspections every 7 days, these inspections will be recorded in accordance with the Construction (Health, Safety and Welfare) Regulations</li> <li>➤ Further inspections will be carried out after any adverse weather conditions and following any alterations</li> </ul>
HSE & Other Guidance	Comments
➤ HSG 150 Health and Safety in Construction	➤



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C02</b>
<b>Task/Activity:</b>	Fragile Roofs	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls through fragile materials	X			X					15
2	Traversing across fragile roofs	X			X					15
3										
4										
5										
6										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others	X				

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ All operatives to be trained in the risks of working at height and with fragile roofing materials</li> <li>➤ Operatives to be specifically trained in the selected safe system of work required in each individual case</li> <li>➤ Only persons with experience of this type work shall be used</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All work involving fragile roofs shall be clearly identified prior to the start of work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Safe and adequate means of access and egress to be provided to the roof area</li> <li>➤ Where fragile material is restricted to a small area (ie: roof lights) these areas should be barriered off</li> <li>➤ No person shall be permitted to walk or traverse over a fragile roof without the use of crawling boards, roof ladders, scaffolding, staging or other protective devices</li> <li>➤ Consideration shall be given to the use of safety nets suspended below the roof where applicable</li> </ul>	<ul style="list-style-type: none"> <li>➤ All work will be subject to a full permit to work system</li> <li>➤ No lone working will be permitted</li> </ul>

HSE & Other Guidance	Comments
➤ HSG33 Safety in Roof Work	➤

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C03</b>
<b>Task/Activity:</b>	Ladders	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls from ladder		X		X					10
2	Ladder slipping		X			X				8
3	Falling objects		X				X			6
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>All persons to be trained in basic ladder safety, including use, inspection and safety measures whilst working from ladders and at height</li> </ul>	<ul style="list-style-type: none"> <li>Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>Ladders to be securely tied off to prevent slippage and movement</li> <li>Where a ladder cannot be tied or secured in any other way, it will be securely footed by another operative</li> <li>If a ladder is being used to access a working platform the ladder shall extend 1.05m above the platform level</li> </ul>	<ul style="list-style-type: none"> <li>Use of ladders will only ever be used for short duration work where no viable alternative is available</li> <li>Damaged ladders shall be removed from site immediately</li> <li>The painting of ladders shall not be permitted as this may mask any defects</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ The correct angle for a ladder is 75° or at a slope of 1:4</li> <li>➤ Overreaching from ladders shall not be permitted</li> </ul>	

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSE Guidance Note – Safe Use of Ladders, Stepladders and Trestles</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C04</b>
<b>Task/Activity:</b>	Mobile Elevated Working Platforms (MEWPs)	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls from height		X		X					10
2	Falling objects			X			X			3
3	Overturning			X		X				4
4	Collision with other plant or structures		X				X			6
5	Failure of lifting mechanism			X			X			3
6	Impact with overhead cables or other obstructions			X		X				4
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	10+ Very High Risk	5-9 High Risk	1-4 Low Risk
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operators to be trained in the safe use of the specific type of platform being used</li> <li>➤ All persons using a MEWP should be provided with training for working at height</li> <li>➤ All persons using a MEWP shall be provided with training in the use safety harnesses and in the importance of ensuring a harness is always used and secured to the basket</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Checks shall be made prior to use to ensure that all MEWP's are in a serviceable state and are accompanied by a valid test certificate</li> </ul>

<b>Physical Controls</b> <ul style="list-style-type: none"> <li>➤ The working area beneath the MEWP will be fenced off to safeguard any persons below from falling objects and from the risk of collision with the MEWP</li> </ul>	<b>Procedural Controls</b> <ul style="list-style-type: none"> <li>➤ MEWP's will only be used on firm level ground</li> </ul>
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Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ The area in which it is anticipated the MEWP will operate shall be cleared of all materials, debris and other obstructions</li> <li>➤ The ground should be inspected prior to use by a competent person to ensure it is capable of sustaining the load</li> <li>➤ If fitted, stabilisers shall be extended prior to the raising of the platform</li> <li>➤ When not in use, the platform should be lowered, the keys removed and the platform in the</li> </ul>	
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG 150 Health and Safety in Construction</li> <li>➤ HSG144 The Safe Use of Vehicles on Construction Sites</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C05</b>
<b>Task/Activity:</b>	Mobile Tower Scaffolds	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls from height		X		X					10
2	Falling objects		X			X				8
3	Overturning of the tower			X	X					5
4	Collapse/failure of the tower			X	X					5
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ Only competent and experienced scaffolders shall be permitted to erect, modify or dismantle any scaffold tower</li> <li>➤ Persons inspecting scaffold towers shall also be competent to do so and have the appropriate CSCS certification</li> <li>➤ All users of scaffold towers shall be trained to identify potential defects and inadequacies in the scaffold and the measures to be taken in such instances</li> <li>➤ All users of scaffold towers shall be made aware of the dangers of making unauthorised modifications, such as the removal of guard rails and scaffold ties</li> <li>➤ No worker shall be permitted to throw any object of a scaffold tower</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ All scaffolds shall be erected in accordance with BS5973 by competent scaffold, certified scaffolders</li> <li>➤ Where scaffold towers are to be erected on the public highway, suitable lighting and other protective measures shall be implemented to protect other road users and the scaffold itself</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All scaffold towers shall be constructed with double guard rails and fixed toe boards</li> <li>➤ Scaffold towers shall always be constructed on level, solid foundations</li> <li>➤ All ladders shall be securely tied off and guarded to prevent accidental falls</li> <li>➤ Where scaffold towers are fitted with wheels, they should be securely locked before use</li> </ul>	<ul style="list-style-type: none"> <li>➤ No scaffold tower will be put into use will be used until it is complete and has been fully inspected by a competent person</li> <li>➤ All scaffolds, including mobile towers will be subject to additional inspections every 7 days, these inspections will be recorded in accordance with the Construction (Health, Safety and Welfare) Regulations</li> <li>➤ Further inspections will be carried out after any adverse weather conditions and following any alterations</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG 150 Health and Safety in Construction</li> <li>➤ GS42 Tower Scaffolds</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C06</b>							
<b>Task/Activity:</b>	Working at Height	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls from height		X		X					10
2	Falling objects		X			X				8
3										
4										
5										
6										
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	
Other Workers	X	Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives to be made aware of the risks and hazards associated with working at height and to be instructed in the contents of the method statement and safe system work</li> <li>➤ All staff to be trained in the use and inspection of their harnesses and lanyards</li> <li>➤ All workers to be provided with training in safe manual handling techniques</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ A safe system of access and egress to the working area shall be provided, for short duration work this may involve the use of a securely footed ladder,</li> </ul>	<ul style="list-style-type: none"> <li>➤ No materials or debris shall be allowed to be thrown from the roof</li> <li>➤ A full method statement and safe system of work shall</li> </ul>

Physical Controls	Procedural Controls
<p>though the use of mobile scaffold towers and full access scaffolds shall be given consideration</p> <ul style="list-style-type: none"> <li>➤ The working area shall provide protection from and to pedestrians and other road users where applicable</li> <li>➤ For short duration work the use of roof ladders will be used to provide access to and from the work area</li> <li>➤ For longer duration work the use of a full scaffold with toe boards, double guard rails, ladder access and other features such as a gin wheel and debris chute shall be used</li> </ul>	<p>be prepared prior to the commencement of any works</p> <ul style="list-style-type: none"> <li>➤ No material shall be allowed to be thrown from the roof area</li> <li>➤ Warning signs shall be erected stating “men working overhead”</li> <li>➤ Rubble netting, brick guards and fans shall be considered to provide protection to persons below</li> <li>➤ Works shall not be permitted to take place during periods of adverse weather such as in strong winds or wet weather</li> </ul>

HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG33 Safety and Roof Work</li> <li>➤ HSG150 Health and Safety in Construction</li> <li>➤ BS1129 Timber Ladders, Steps, Trestles and Lightweight Stagings</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C07</b>
<b>Task/Activity:</b>	Removing Tiles/Slates to Pitched Roof	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Falls from height		X		X					10
2	Falling tools/materials		X			X				8
3	Use of hand tools	X						X		6
4	Manual handling of slates/tiles	X					X			9
5	Falls between roof joists		X			X				8
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection	X	Head Protection	X
Gloves	X	Non-slip Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ All users of scaffolds shall be made aware of the dangers of making unauthorised modifications, such as the removal of guard rails and scaffold ties</li> <li>➤ All staff to be provided with training in safe lifting techniques, manual handling and working at height</li> <li>➤ Only competent and experienced scaffolders shall be permitted to erect, modify or dismantle any scaffold</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Where scaffolds are to be erected on the public highway, suitable lighting and other protective measures shall be implemented to protect other road users and the scaffold itself</li> <li>➤ Ensure that those carrying out the works are fit and healthy</li> <li>➤ No lone working to be permitted</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Full access scaffold to be provided for access to the roof and to provide edge protection against falls from all sides of the roof</li> <li>➤ Ensure that a brick guard is fitted to the scaffold as any tiles sliding off the roof may end up hitting the ground (or any other object/person in its way) with considerable speed/force</li> <li>➤ Where it is not possible to scaffold both or all sides of the property, it may be possible to incorporate the use of a harness and lanyard system ,though this will require a separate risk assessment and safe system of work</li> <li>➤ Securely fixed roof ladders are to be used to provide access to the working area</li> <li>➤ All scaffold towers shall be constructed with double guard rails and fixed toe boards</li> <li>➤ Scaffold towers shall always be constructed on level, solid foundations</li> <li>➤ All ladders shall be securely tied off and guarded to prevent accidental falls through ladder openings</li> <li>➤ Where scaffold towers are fitted with wheels, they should be securely locked before use</li> <li>➤ Do not thrown any material down from the scaffold or roof area at any time, it should always be placed into either a suitable waste sack, or other container and safely lowered to the ground</li> <li>➤ Where the work could involve persons, tools or materials falling between roof joists, then the use of a crash deck, air bags or similar arrangement will be implemented prior to the start of works to safeguard both those carrying out the work and others in the vicinity</li> </ul>	<ul style="list-style-type: none"> <li>➤ No works shall be permitted during periods of wet or windy weather, due to the increased risks associated with the work</li> <li>➤ Smoking, eating and drinking is to be prohibited whilst working on roofs</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSG33 Health and Safety in Roof Work</li> <li>➤ Work at Height Regulations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ladders should only ever be used for short duration works where at least 3 points of contact (2 feet and one hand) can be made with the ladder at ALL times</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C08</b>							
<b>Task/Activity:</b>	Use of Safety Harnesses and Lanyards	<b>Project No.:</b>	Ash/11/01							
		<b>Date Prepared:</b>	10/7/11							
HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Incorrect length lanyard		X			X				8
2	Damaged lanyard/harness			X		X				4
3	No secure anchor point		X			X				8
4	Harness incorrectly worn			X			X			3
5	Failure of anchor point			X		X				4
6	Insufficient clearance to absorb fall (lanyard too long)		X			X				8
7										
8										
9										
10										
<b>Risk Assessment Scores:</b>		<b>10+ Very High Risk</b>			<b>5-9 High Risk</b>			<b>1-4 Low Risk</b>		

PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard	X	Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves		Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ Specific training in the use of the harness, lanyard and associated system should be provided to all those using the equipment, this should include: <ul style="list-style-type: none"> <li>○ How to wear the harness and adjust it to the body</li> <li>○ How to manage the lanyard and other equipment</li> <li>○ How to fall so as to minimise injury</li> <li>○ How to self rescue or assist others after a fall</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Ensure that those carrying out the works are fit and healthy</li> <li>➤ No lone working to be permitted</li> </ul>

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>○ How to inspect the equipment and recognise significant defects</li> <li>○ How to assemble the system correctly, including recognition of the importance of safe anchorages</li> </ul>	
Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ All equipment to be thoroughly check and inspected prior to use</li> <li>➤ Damaged equipment is to be taken out of use immediately and reported to the supervisor</li> <li>➤ Wherever practical, the lanyard is to be clipped on to a secure anchor point at head height to reduce the fall distance</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure that consideration is given to how a person can be rescued after an arrested fall</li> <li>➤ Ensure that all anchor points have been thoroughly tested and inspected and are suitable for use</li> <li>➤ Ensure that all harnesses and lanyards are properly stored in an warm dry area, where they are unlikely to get damaged</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Personal Protective Equipment at Work Regulations</li> <li>➤ Work at Height Regulations</li> <li>➤ PPE against falls from height. Lanyards BS EN 354</li> <li>➤ PPE against falls from height. Full body harnesses BS EN 361</li> <li>➤ PPE against falls from height. Fall arrest systems BS EN 363</li> <li>➤ PPE against falls from height. Energy absorbers BS EN 355</li> </ul>	<ul style="list-style-type: none"> <li>➤ The use of safety harnesses and fall arrest systems should always be the last choice for providing protection against falls from height</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>C09</b>
<b>Task/Activity:</b>		<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.  Score:	Probable 3	Occasional 2	Remote 1	Catastrophic 5	Critical 4	Serious 3	Marginal 2	Negligible 1	Likelihood x Severity
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives		Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
➤	➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work

<b>Physical Controls</b>	<b>Procedural Controls</b>
➤	➤

<b>HSE &amp; Other Guidance</b>	<b>Comments</b>
➤	➤

**SECTION D**  
**MISCELLANEOUS**



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D01</b>
<b>Task/Activity:</b>	Exposure to Dusts	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Inhalation of dust particles	X					X			9
2	Ingestion of dust particles	X					X			9
3	Asphyxia		X				X			6
4	Dermatitis		X					X		4
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	X
Hearing Protection		Eye Protection	X	Head Protection	
Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All staff to be trained in the use and importance of PPE such as hard hats, eye protection, respirators and gloves</li> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All staff to be made aware of the hazards and risks associated with the works</li> <li>➤ Inform operatives of the hazards from the substances they are using and the results of the COSHH Assessment</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Supervisors to ensure PPE is available and used, minimum grade of respirators to be FFP2, unless the COSHH assessment requires a higher level of protection</li> <li>➤ Ensure that a full COSHH Assessment is carried out for each substance/material used</li> <li>➤ Where applicable always ensure that the least hazardous substance is selected</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Ensure that adequate ventilation is provided</li> <li>➤ Where necessary provide local exhaust ventilation (LEV) to remove contamination and dust particles from the air</li> <li>➤ Where LEV is provided, ensure that the equipment is properly maintained and cleaned so as not to reduce its efficiency or effectiveness</li> <li>➤ Ensure that the use of LEV, extractors and blowers do not simply push the problem away from one area and into another</li> <li>➤ Adequate hygiene facilities are to be provided including washbasins, soap, nail brushes and towels</li> <li>➤ Ensure that excessive dust generation is avoided</li> <li>➤ Clean up all spills and debris</li> <li>➤ Bags of plaster, cement and other products likely to generate dust should be carefully opened and emptied into mixing buckets, taking care to avoid generating dust clouds</li> <li>➤ If necessary (and if safe to do so) dampen the floor area before sweeping/cleaning the floor</li> <li>➤ Where it is not practical to wet and sweep the floor, use an industrial vacuum cleaner to collect the dust</li> <li>➤ Empty bags of plaster to be placed into a plastic waste bag to prevent further dusts being generated</li> <li>➤ Sheets of plasterboard should be cut using a sharp Stanley/Utility knife, as opposed to using a saw or other implement</li> </ul>	<ul style="list-style-type: none"> <li>➤ Regular checks to be made to ensure that the working area is clean and tidy, and free from dust/debris that</li> <li>➤ Do not permit eating and drinking in the work area where there are potential dust problems</li> <li>➤ Restrict any unauthorised access to the area</li> <li>➤ Keep haulage and site roads damp during dry periods to avoid generating dust clouds as vehicles pass over the roads</li> <li>➤ Arrange for road sweepers to regularly pass and clean the public highway on the approach roads to the site where mud and debris are being deposited on the roads</li> <li>➤ Provide a wheel wash at the exit from the site to prevent excessive dust, mud and other materials being deposited on the roads by vehicles leaving the site</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D02</b>
<b>Task/Activity:</b>	Exposure to Noise	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Distracting influence on staff		X					X		4
2	Continual noise below the first action level	X						X		6
3	Loud noises above the first action level	X					X			9
4	Loud noises above the second action level		X			X				8
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection	X	Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ Where the risk of hearing damage has been assessed as being high, all operatives should be trained and informed of the risks and irreversible damage that may be caused by exposure to noise</li> <li>➤ Operatives to be informed of all mandatory hearing protection zones and of the need to ensure the appropriate protection is worn at all times</li> <li>➤ Where to obtain the appropriate PPE/hearing protection and how to use it correctly</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Managers to ensure all safeguards are in place and that the appropriate PPE is provided and used</li> <li>➤ Where employees are regularly exposed to high levels of noise, consider the need for appropriate Health Surveillance measures</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Mandatory hearing protection signs to be erected in all areas where noise levels are likely to exceed 85dB(A)</li> <li>➤ Make use of acoustic enclosures for noisy plant and equipment, or erect acoustic screens and barriers to deaden any noise</li> <li>➤ Site plant as far away from the working area as is reasonably practicable— ie: generators and compressors etc do not need to be in the immediate vicinity of the works</li> </ul>	<ul style="list-style-type: none"> <li>➤ When selecting and procuring plant, tools and other equipment, consideration will be given to procurement of low noise equipment wherever possible</li> <li>➤ Where individual operatives are exposed to high levels of noise, limit their exposure to the noise by restricting the duration of their exposure – rotate different the people used so that no one spends an excessive amount of time exposed to the noise</li> <li>➤ Ensure all plant and machinery is properly maintained and serviced to help reduce the noise caused by poorly maintained and worn equipment</li> <li>➤ Ensure that where applicable, silencers are fitted to plant and machinery</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ INDG362 Noise at Work</li> <li>➤ The Control of Noise at Work Regulations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Most plant, power tools and machinery are likely to generate noise in excess of the second action level (85dB(A)), this therefore means that hearing protection must be provided and used whilst using such equipment</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D03</b>
<b>Task/Activity:</b>	Exposure to the Sun	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Sunburn		X				X			6
2	Skin cancer		X			X				8
3	Heat exhaustion			X			X			3
4	Heat stroke			X			X			3
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	X
Gloves		Boots		Sun Screen	X

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ Provide advice on sun protection during induction training</li> <li>➤ Inform workers that a tan is not healthy - it is a sign that skin has already been damaged by the sun.</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Encourage workers to keep their tops on, clothing forms a barrier to the sun's harmful rays- especially tightly woven fabrics</li> <li>➤ Wear a hat with a brim or flap that covers the back of neck and ears- avoiding sunburn</li> <li>➤ Stay in the shade, whenever possible, especially at lunchtime</li> <li>➤ Use a high factor sunscreen of at least factor SPF 15 on exposed skin</li> <li>➤ Drink plenty of water to avoid dehydration and heat stroke</li> <li>➤ Provide a wholesome supply of cold drinking water that is freely available to all operatives</li> <li>➤ Ensure operatives have an area that they can go to escape the heat of the sun</li> </ul>	<ul style="list-style-type: none"> <li>➤ Encourage workers to keep covered up during the summer months - especially at lunch time when the sun is at its hottest. They can cover up with a long-sleeved shirt, and a hat with a brim or flap that protects the ears and neck.</li> <li>➤ Encourage workers to use sunscreen of at least SPF (Sun Protection Factor) 15 on any part of the body they can't cover up and to apply it as directed on the product. They might prefer to use a spray or an alcohol-based (non-greasy) sunscreen.</li> <li>➤ Encourage workers to check regularly check their skin for unusual spots or moles which may have changed – see a doctor immediately if anything is seen that has changed in shape, size or colour, or which is itching or bleeding</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ INDG147 – Keep Your Top On, Health Risks From Working in the Sun</li> <li>➤ INDG337 – Sun Protection, Advice for Employers of Outdoor Workers</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D04</b>
<b>Task/Activity:</b>	Exposure to Vibration	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Hand arm vibration syndrome from use of power tools, plant and equipment	X					X			9
2	Whole body vibration from operating vehicles, plant and equipment	X					X			9
3										
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection	X	Eye Protection		Head Protection	
Anti-Vibration Gloves	X	Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures for the tools being used</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ Operatives to receive full training in the use, storage, and general care of PPE, tools and other equipment</li> <li>➤ Full manual handling training to be provided to all operatives</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Select low vibration and low noise models when procuring plant and equipment</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Limit duration of exposure to reduce the level of risks from exposure to high noise and vibration levels</li> <li>➤ Keep hands warm</li> <li>➤ Only 110v or less tools are to be used</li> <li>➤ Trailing cables shall be managed to reduce the risk of slips, trips and falls</li> <li>➤ All tools shall be earthed or double insulated</li> <li>➤ Temporary and impromptu repairs to power cables shall not be allowed</li> <li>➤ All tools and cables shall be inspected before use</li> <li>➤ When not in use, all tools shall be disconnected from its electrical supply</li> <li>➤ All damaged and defective equipment shall immediately be taken out of use, reported to the supervisor and marked as being defective</li> </ul>	<ul style="list-style-type: none"> <li>➤ A planned preventative maintenance system shall be implemented whereby all equipment shall be regularly inspected, tested and maintained in accordance with manufacturers recommendations</li> <li>➤ Ensure all tools are properly maintained and lubricated to help reduce the extent of vibration</li> <li>➤ Ensure correct tool for the job has been selected</li> <li>➤ Manufacturers vibration monitoring details to be obtained for all tools</li> <li>➤ Recommended maximum exposure limits/times set by the manufacturer/supplier shall not be exceeded</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ HSE Guidance Notes – Safe Use of Portable Electrical Equipment</li> <li>➤ Electricity on Construction Sites</li> <li>➤ HSE Information Sheet – Maintenance of Portable Electrical Equipment</li> <li>➤ INDG296 Hand Arm Vibration – Advice for Employees</li> <li>➤ Control of Vibration at Work Regulations</li> <li>➤ INDG175 – Control the Risk From Hand-Arm Vibration, Advice for Employers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Due to the nature of our work, the use of hand held power tools is not a regular activity and it is generally only for short durations</li> </ul>



## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D05</b>
<b>Task/Activity:</b>	Site Security	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Slips, trips and falls		X			X				8
2	Threat of plant, tools, equipment and materials		X					X		4
3	Unauthorised access to working area		X				X			6
4	Falling materials		X				X			6
5	Physical abuse directed towards workforce			X			X			3
6	Verbal abuse directed towards workforce		X				X			6
7	Trespassing out of hours		X				X			6
8	Equipment such as scaffold, plant and machinery damaged and vandalised		X			X				8
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ Training will be provided for staff on how to deal with potentially violent and abusive persons</li> <li>➤ Staff should be informed not to leave valuable tools, equipment or possessions unattended and on display</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ All staff to be issued with Photographic ID</li> <li>➤ Ensure that a competent site supervisor is available to monitor and supervise all works</li> <li>➤ Consider engaging a security guarding service to patrol or visit the site at night</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Ensure suitable physical barriers are placed between members of the general public and the site works to prevent unauthorised access to the working area and to ensure that members of the public are separated from potentially hazardous situations</li> <li>➤ Ensure barriers are set back far enough so that any falling materials etc can be safely contained within the working area</li> <li>➤ Keep the site clean and tidy at all times to reduce the potential for dust generation</li> <li>➤ Do not allow any materials or tools to be stored or left outside of the site fencing as this may cause a trip hazard</li> <li>➤ Ensure all site boundaries are secure and intact</li> <li>➤ Display danger and hazard warning signs on the perimeter fencing to discourage entry</li> <li>➤ Ensure the site is well lit at night</li> <li>➤ Remove ladders from scaffolds and other platforms to prevent access onto working platforms</li> <li>➤ Ensure all tools and equipment are locked away in secure containers or stores</li> <li>➤ Lock all plant and remove the keys from all such equipment</li> <li>➤ Do not leave any hazardous substances or chemicals around the site</li> <li>➤ Ensure all excavations are backfilled, covered or securely fenced at the end of each shift</li> <li>➤ Ensure that all materials such as pipes and blocks are safely and secured stored/stacked etc</li> </ul>	<ul style="list-style-type: none"> <li>➤ Site operatives should be encouraged not to liaise or communicate with members of the public unless necessary</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ Misc447 – Stay Safe</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D06</b>
<b>Task/Activity:</b>	Slips, Trips and Falls	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Uneven surfaces		X					X		4
2	Poor lighting along walkways		X					X		4
3	Unsuitable, poorly maintained surfaces			X			X			3
4	Trailing leads/cables		X					X		4
5	Spills		X				X			6
6	Poorly designed stairs/steps			X			X			3
7	Pedestrian routes clear of obstructions		X					X		4
8	Waste materials and debris scattered around the site	X					X			9
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public	X	Site Visitors	X
Other Workers	X	Managers	X	Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots	X		

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b> <ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives are to be instructed to walk calmly and not to run</li> <li>➤ All operatives are to stick to the identified pedestrian walkways at all times</li> <li>➤ The practice of 'A Tidy Site is a Safe Site' is to be promoted at all times</li> </ul>	<b>Managerial Controls</b> <ul style="list-style-type: none"> <li>➤ Ensure the strict enforcement of waste collection and disposal around the site</li> <li>➤ Office manager to carry out regular inspections to ensure adequate standards are maintained</li> <li>➤ Supervisors given the responsibility of maintaining high housekeeping standards in their areas</li> </ul>

Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Good housekeeping standards to be maintained at all times</li> <li>➤ No trailing cables to be left across walkways</li> <li>➤ All waste, debris, rubbish and off-cuts etc are to be cleared away as they are produced and disposed of within the appropriate waste containers</li> <li>➤ Floors, staircases and doors cleaned on a regular basis by the cleaners</li> <li>➤ Repairs and maintenance of doors, floors and walkways to be carried out when necessary</li> <li>➤ Stairs and corridors to be well lit and handrail provided</li> <li>➤ All holes, voids and edges are to be provided with edge protection in the form of rigid barriers or alternatively steel plates may be secured over open holes etc</li> </ul>	<ul style="list-style-type: none"> <li>➤ Carry out regular site safety inspections to ensure that the site is clean, tidy and free of waste/debris</li> <li>➤ Ensure that sufficient waste skips and receptacles are provided</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ INDG225 Preventing Slips and Trips at Work</li> <li>➤ HSG 155 Slips and Trips: Guidance for employers on identifying hazards and controlling risks</li> </ul>	<ul style="list-style-type: none"> <li>➤</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D07</b>
<b>Task/Activity:</b>	Working with Hazardous Substances	<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.	Probable	Occasional	Remote	Catastrophic	Critical	Serious	Marginal	Negligible	Likelihood x Severity
	Score:	3	2	1	5	4	3	2	1	
1	Injury through inhalation		X			X				8
2	Injury through ingestion		X			X				8
3	Injury through injection			X		X				4
4	Injury through absorption		X			X				8
5	Explosion			X		X				4
6	Injury through skin contact		X				X			6
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives	X	Members of Public		Site Visitors	
Other Workers	X	Managers		Young Persons	X
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
<ul style="list-style-type: none"> <li>➤ All operatives should be informed of the hazards and instructed on the required safe systems of works and control measures</li> <li>➤ All operatives to be provided with appropriate PPE and trained in its use and application</li> <li>➤ All staff to be informed of the potential hazards to their health from contact with hazardous substances</li> <li>➤ All staff who are considered to be at risk should be provided with instruction on the precautions to be taken when using and handling such substances</li> <li>➤ All staff who are considered to be at risk should be provided with instruction on how to safely clean up and dispose of any potentially hazardous substances</li> <li>➤ All staff to be informed that a specific COSHH</li> </ul>	<ul style="list-style-type: none"> <li>➤ Ensure adequate supervision is provided and that control measures remain valid for the duration of the work</li> <li>➤ Ensure appropriate safety equipment and PPE are made available</li> <li>➤ Managers to ensure all safeguards are in place and that the appropriate PPE is provided and used</li> </ul>

ADDITIONAL CONTROL MEASURES	
Information/Instruction/Training	Managerial Controls
assessment must be completed for every potentially hazardous substance used in the workplace	
Physical Controls	Procedural Controls
<ul style="list-style-type: none"> <li>➤ Substitute any substance with an equally effective but less hazardous material wherever possible</li> <li>➤ A written COSHH risk assessment must be completed for any hazardous substances retained or used in the workplace</li> <li>➤ Staff must be made aware of, and adhere to the control measures on the specific COSHH/risk assessments</li> <li>➤ The COSHH/risk assessments need to be reviewed on a regular basis</li> <li>➤ Contractors must not be allowed to bring chemicals onto the premises unless they have undertaken an assessment of risk and have adequate control measures in place to reduce those risks</li> <li>➤ Suitable PPE must be provided and worn where the COSHH assessment determines this to be necessary</li> <li>➤ All substances must be adequately and securely stored</li> </ul>	<ul style="list-style-type: none"> <li>➤ All hazardous substances must be identified.</li> <li>➤ Any substance that is no longer in use must be disposed of safely, and in accordance with information on the Material Safety Data Sheet (MSDS).</li> <li>➤ A MSDS must be obtained for every hazardous material used in the workplace.</li> <li>➤ The need to use hazardous substances must be eliminated wherever possible.</li> </ul>
HSE & Other Guidance	Comments
<ul style="list-style-type: none"> <li>➤ INDG136 COSHH: A Brief Guide to the Regulations</li> <li>➤ COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations HSG193</li> <li>➤ Control of substances hazardous to health. The Control of Substances Hazardous to Health Regulations (as amended). Approved Code of Practice and guidance L5</li> </ul>	<ul style="list-style-type: none"> <li>➤ This assessment is not substance specific and a specific COSHH Assessment must be carried out for all hazardous substances used in the workplace.</li> </ul>

## CONSTRUCTION RISK ASSESSMENTS

<b>Project Title:</b>	Henrietta Road-Bath-Byways/Cleve & Linden	<b>Risk Assess. No.:</b>	<b>D11</b>
<b>Task/Activity:</b>		<b>Project No.:</b>	Ash/11/01
		<b>Date Prepared:</b>	10/7/11

HAZARDS		Likelihood			Severity					Risk Score
Ref.	Key hazards associated with the above task/activity.  Score:	Probable 3	Occasional 2	Remote 1	Catastrophic 5	Critical 4	Serious 3	Marginal 2	Negligible 1	Likelihood x Severity
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

<b>Risk Assessment Scores:</b>	<b>10+ Very High Risk</b>	<b>5-9 High Risk</b>	<b>1-4 Low Risk</b>
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PERSONS AFFECTED					
Operatives		Members of Public		Site Visitors	
Other Workers		Managers		Young Persons	
Others					

PPE REQUIREMENTS					
Harness & Lanyard		Hi-Viz Clothing		Respiratory Protection	
Hearing Protection		Eye Protection		Head Protection	
Gloves		Boots			

ADDITIONAL CONTROL MEASURES	
<b>Information/Instruction/Training</b>	<b>Managerial Controls</b>
➤	➤

<b>Physical Controls</b>	<b>Procedural Controls</b>
➤	➤

<b>HSE &amp; Other Guidance</b>	<b>Comments</b>
➤	➤

# **PART TWO**

## **Method Statements**



## Method Statements

Method statements are used as a means of demonstrating that the hazards and risks associated with a particular task or series of tasks have been properly considered and evaluated. Method statements should outline the appropriate risk control strategies that are required to be implemented in order to ensure the health, safety and welfare of the workforce and others affected by the works. A method statement can only be prepared once the potential hazards have been identified and the risks assessed. This therefore requires the completion of a properly considered risk assessment for each activity, or series of activities, which identifies not only the hazards, but also the required controls measures that are necessary to manage the residual risks.

The following method statement template can be used to formulate and structure method statements for specific tasks and activities, though it should be noted that every situation would require a site-specific method statement. Generic method statements cannot be prepared, as every site/situation will differ to a larger or lesser extent. The template has been developed so that all of the information required for a method statement can be set out in a logical, easy to understand format. This aids not only those preparing and reviewing method statements, but it also helps in the communication of the information contained within the method statement to those who are carrying out the work.













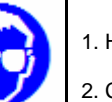
The pages following the template provide further information and guidance on the type of information that should be included within a method statement. When preparing method statements, reference should be made to the controls and requirements of the risk assessments, together with other guidance contained within HSE publications and guidance. Method statements should address all of the major issues whilst avoiding irrelevant material, which is not applicable to the specific situation.



The requirement for method statements (or safe systems of work) is not new. Section 2 of the Health and Safety at Work etc Act 1974 requires all employers to ensure safe systems of work, a safe place of work and a safe working environment etc.

# Method Statement Template

Ref No.:

<b>Description of the Task/Activity:</b>				
<b>Project Name:</b>		<b>Project Ref:</b>		
<b>Site Address/ Location:</b>		<b>Start Date/Time:</b>		
		<b>Finish Date/Time:</b>		
<b>Personnel involved:</b>	<b>Name</b>	<b>Role/Trade</b>		
<b>Works Supervisor:</b>		<b>Role:</b>		<b>Tel:</b>
<b>Key Plant and Tools Required:</b>				
<b>Key Materials Required:</b>				
<b>Other Essential Equipment:</b>	(ie: access platforms/winches/ladders etc)			
<b>Specific Identified Residual Hazards:</b> (or refer to the task specific risk assessment(s))				
<b>Specific Staff Training Requirements:</b>	(ie: Confined Spaces/Abrasive Wheels/Working at Height/Plant Operators etc)			

<b>Sequence of Operations:</b> (Specifying methods of working, tools, materials and equipment utilised)	1.						
	2.						
	3.						
	4.						
	5.						
	6.						
	7.						
	8.						
	9.						
	10.						
<b>Temporary Supports and Props needed to facilitate the works:</b>	(If none, state none.)						
<b>Method of Access and Egress to the work area:</b>	(ie: Ladders/MEWPS/Scaffold/Trestles/Step Ladder etc)						
<b>Fall Protection Measures:</b> (Where work at height cannot be eliminated - consider both Personnel & Materials)	(ie: Guard Rails/Toe Boards/Brick Guards/Safety Harnesses/Exclusion Zones etc)						
<b>Hazardous Substances:</b> (Attach COSHH Assessments and MSDS)	(ie: Lubricants/Solvents/Flammable Materials/Refrigerants/Welding Gases etc)						
	 Very Toxic	 Harmful/Irritant	 Corrosive	 Dangerous for the environment	 Oxidising	 Highly flammable	 Explosive
<b>Applicable:</b>	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
<b>SWL's:</b>	(Detail any limits on the loadings applicable to temporary plant/equipment or fixed elements of the structure where the work is taking place.)						
<b>Required Personnel Protective Equip.:</b>	 Safety Boots	 Hard Hats	 Safety Gloves	 Hearing Protection	 Respiratory Protection	 Eye Protection	<b>Other:</b> 1. Hi-Viz 2. Coveralls 3.
	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	

<b>Emergency Procedures:</b>		
 <b>First Aid Facilities:</b> 	<b>Name of On-Site First Aider:</b>	
	<b>First Aid Box Location:</b>	
	<b>Location of Nearest Hospital:</b>	
<b>Other Information &amp; Comments:</b>		

All work will be undertaken by qualified competent persons with experience of the type of work described above, and in all cases in full accordance with safety procedures specified in the companies Health and Safety Policy.

**Prepared by:**

**Position:**

**Date:**

**Reviewed by:**

**Position:**

**Date:**

# Method Statement Briefing Record

**Briefing delivered by:**

**Position:**

**Date:**

We (the undersigned) have read and understood the attached method statement and will comply with the specified requirements and control measures. If the work activity changes or deviates from that originally envisaged, we will seek further advice and request an amended method statement.

Name (Print)	Signature	Date

## INFORMATION TO BE INCLUDED IN METHOD STATEMENTS

The content of the Method Statement will depend on the complexity and size of the job. Its purpose is to show how the work will be carried out safely. Method Statements should address each of the following:

1. Details of supervisory personnel on site who will be responsible for the work.
2. Where applicable details of Safety Consultant and their name and telephone number.
3. Details of any personnel not involved on site but who can be contacted regarding design or other specialist information if necessary.
4. Work sequences.
5. Stabilisation of the works during their progress e.g., any temporary props, struts or supports that are required.
6. The method of executing the works, which will include methods of lifting, fixing, holding or bolting.
7. Methods to prevent any falls from heights. Full details should be given i.e. working platforms, handrails, safety harnesses or other means of preventing falling.
8. Access and egress to the job, i.e. by ladders, mobile work access platforms, hoists etc. Also specify the location of any ladders or other means of access.
9. Methods of protecting materials falling from heights i.e. toe boards, debris/brick guards, boarding on platforms etc.
10. The description of plant to be used in the execution of the work, its safe working load and details of any tests, certificates, inspections/registers which are applicable.
11. Details of what to do in case of emergency. This would include details of first aid and names of qualified first aiders.
12. Details of storage and the stacking of items on site together with any delivery procedures and any assembly work that is going to be carried out.
13. Detailed calculations for any loading of platforms, props, temporary works or supports that are to be provided during the progress of the job.
14. Personal protective equipment to be provided for employees and sub-contractors in particular, safety helmets etc.
15. Details of any confined space hazards and where necessary, atmospheric monitoring procedures and emergency equipment to be provided.
16. Details of any shoring to be provided in excavations, means of entry and barriers or secure coverings to be provided.
17. Details of certification of personnel on site i.e., Construction Industry Training Board Certification Scheme for Scaffolding, Steel Erectors, Plant Operators, Demolition Operatives etc. Details of any certification such as Mounting of Abrasive Wheels, Cartridge Operated Tools etc.
18. The training of operatives on site i.e., induction training and any details regarding their part to be played within the Work Method Statement.

**The Method Statement or Safe System of Work is a requirement of the Health and Safety at Work Etc Act 1974 and is intended to outline the information, procedures and controls necessary to undertake the job safely. It is essential that a copy of the Method Statement is made available on site for inspection by all personnel. In addition, it is the responsibility of Management to ensure that all operatives are aware of their role in the job that is outlined within the Statement.**

**The above points are not an exhaustive list and simply offer an outline of the details of the type of information that should be provided within a Method Statement.**

