

Risk assessment

Date: 03/02/2011

Site: Construction Risk Assessment

Construction & Demolition

Contract No SIE01027

What are the Hazards?	Risk / Hazard	Who might be harmed and how?	What are you already doing/?	What further action is necessary?	Action by?	Level of Risk	Action by when?	Done
Collapse of scaffold	Medium / Major	All operatives on scaffold may incur crush injuries, or worse, if the scaffold collapses on top of them	<ul style="list-style-type: none"> Agree scaffolding requirements at contract stage, including appropriate load rating and provision of loading bays Working supervisor to check with the site manager that the correct scaffold is provided and inspected 	<ul style="list-style-type: none"> Supervisor to keep a check to make sure that scaffold is not overloaded with materials. 	Supervisor Manager	Low	16/12/09 SPI	Monitor supervise no further action
Falling objects	High / Major	Workers may be struck on head, body or feet causing serious injury, by falling objects.	<ul style="list-style-type: none"> Brick/Block guards kept in position on scaffold lifts. Waste materials removed from scaffolding and placed in skip Safety helmets and protective footwear (with steel toecaps and mid-soles) supplied and worn at all times. 	<ul style="list-style-type: none"> Supervisor to monitor, disturbance of safety precautions and items in place, use of safety hats and protective footwear. 	Supervisor Manager	Low	16/12/09 SPI	Monitor
Falls from height	High / Major	Serious injury or even fatal injury could occur if a worker falls.	<ul style="list-style-type: none"> Agree scaffolding requirements at contract stage, including appropriate load rating and provision of loading bays Working Supervisors' to check with the site manager that the correct scaffold is provided and inspected. Workers instructed not to interfere with or misuse scaffold supervisor to keep an eye out for problems Ladders in good condition, adequately secured (lashed) and placed on firm surface Band stands with handrails to be used for work on internal walls. Workers trained to put up bandstands. 	<ul style="list-style-type: none"> Scaffold requirements agreed, including loading bays and appropriate load rating approved. Supervisor to speak regularly to site manager to arrange scaffold alterations and ensure that weekly inspections have been carried out. 	Manager Supervisor	Low	SPI 16/12/09	Supervise no further action
Slips and trips	High / Major	All workers and visitors may suffer sprains or fractures if they trip over waste or objects or slip on spillages. Slips at height could result in a serious fall.	<ul style="list-style-type: none"> General good housekeeping. All areas well lit, including stairs. No trailing leads or cables. Staff keeps work areas clear, eg no rumble left on scaffold in walkways, deliveries stored immediately, offices cleaned each evening. 	<ul style="list-style-type: none"> Housekeeping monitored by supervisor Temporary storage locations to be agreed with site manager. Supervisor to ensure that workers wear safety footwear whenever on site. 	All staff Manager Supervisor	Low	SPI	no further action
Workers struck or crushed by moving vehicles on site	Major / High	Workers could suffer serious or even fatal injuries from vehicles and machines on site – particularly when reversing.	<ul style="list-style-type: none"> Manager to agree safe route to work area with principal contractor based upon the construction phase health and safety plan. Induction to each site to be carried out for all workers on first day. 	<ul style="list-style-type: none"> Safe route agreed with principal contractor Instruct staff that they must never drive vehicles and plant on this site. Hi visibility vests to be worn at all times. Supervisor to check vests are worn 	Manager Supervisor	Low	16/12/09 SPI	Supervise lifts and movement Monitor
Manual handling	Major / High	All workers could suffer from back injury and long-term pain if regularly lifting/carrying heavy or awkward objects	<ul style="list-style-type: none"> Trolley and pallets to be used for moving loads of blocks around the scaffold lift to loading bays Check at tender stage for any blocks or lintels over 20kg and make arrangements. Blocks etc to be transported and lifted from scaffold using telehandler provided by principal contractor. 	<ul style="list-style-type: none"> All workers to be instructed not to carry demolition materials by hand Blocks which are 15kg, no special arrangements necessary 	Manager No further Action Manager	Low	16/12/09 SPI SPI	Supervise

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Stepping on nails and sharp objects	Serious/ Medium	All workers could suffer foot injuries.	<ul style="list-style-type: none"> Safety boots with steel toe caps and mid soles provided to all workers by employeeer, sub- contract labour to supply their own. Waste disposed of in skips 	<ul style="list-style-type: none"> Explain the need to wear safety boots and dispose of waste in skips Supervisor to check that safety boots are always worn and waste disposed of properly. 	Manager Supervisor	Low	SPI	no further action
Hazard to eyes	Major / High	All workers could suffer eye injury through flying brick, block and dust fragments.	<ul style="list-style-type: none"> Safety goggles (EN 166 B standard) worn when breaking Bricks and blocks. Safety glasses with side guards required at all other times 	<ul style="list-style-type: none"> Use of goggles and glasses to be monitored by supervisor. 	Supervisor	Low	16/12/09	no further action
Dust from removal of blocks, bricks etc.	Major / High	Dust exposure could cause silicosis,	<ul style="list-style-type: none"> Angle grinders replaced with block splitter, removing the risk of significant dust exposure. The use of a grinder for chasing may be needed on this job. 	<ul style="list-style-type: none"> Dust masks to be worn at all times Water sprayers to be used when cutting or chasing. 	Supervisor	Low	16/12/09	monitor no further action
Noise From use of equipment e.g. angle grinder	Major / High	Workers using grinders or working near others doing so may suffer hearing loss.	<ul style="list-style-type: none"> Angle grinders only used when required as last resort. Block splitting by leverage, removing high noise levels from our work. Workers to wear suitable hearing protection when the job exposes them to loud noise. Construction phase plan show other trades using grinders etc should not be working close enough to cause problems. 	<ul style="list-style-type: none"> No Further action at this stage. Supervisor to monitor and talk to site manager if noisy work does start close by. 	Supervisor Manager	Medium	16/12/09 SPI	monitor no further action
Vibration From use of equipment such as angle grinder	Major / High	Exposure to vibration can lead to the development of 'vibration white finger	<ul style="list-style-type: none"> Angle grinders replaced with block splitter. No significant vibration left. Angle grinders not to be used for prolonged periods by any worker, any constant usage to be monitored 	<ul style="list-style-type: none"> Supervisor to monitor and regulate usage 	Supervisor	Low	16/12/09	monitor no further action
Fire/explosion	Major / High	All operatives in the vicinity could suffer inhalation or burns.	<ul style="list-style-type: none"> All workers made aware of fire and evacuation plan before work begins Suitable fire extinguisher kept in site office and welfare facilities Good housekeeping monitored by supervisor Fire risk assessments done and maintained, any necessary action taken 	<ul style="list-style-type: none"> Supervisor to brief all workers on first day on arrangements agreed with principal contractor. 	Supervisor Manager	Low	16/12/09 SPI	monitor no further action

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Welfare/First Aid	Serious/ Medium	Good facilities help prevent dermatitis etc.	<ul style="list-style-type: none"> Principal contractor will have facilities on site by the time bricklaying starts, including: Flushing toilet. Hot and cold running water, soap, towels and full size washbasins. Heated canteen with kettle etc. Principal contractor will arrange clearing and ensure the necessary electrical and heating safety checks are made. Site agent is appointed person for first aid. 	<ul style="list-style-type: none"> Supervisor to brief workers on facilities and keeping them clean. 	Supervisor	Low	9/12/09	monitor
					Manager		SPI	no further action
Moving heavy objects	Major / High	Workers may be seriously injured if struck by falling heavy objects during, for example, the movement of heavy loads blocks or scaffold / scaffold parts	<ul style="list-style-type: none"> Trained person always in charge of any lifting operations. All workers involved in lifting operations to be trained in safe slinging and material handling processes. Workers involved in moving heavy objects to agree safe system of work before job begins. 	<ul style="list-style-type: none"> Supervisor to ensure materials movements are monitored to avoid unnecessary re-locations. Supervisor to ensure everyone understands what they should and should not do. 	Supervisor Supervisor	Low	16/12/09	monitor supervise no further action
Electricity	Major / High	Workers may suffer shock and burns injuries from faulty electrical equipment or installation.	<ul style="list-style-type: none"> Electrical safety discussed with contractor and relevant others before each job begins to ensure that the relevant circuits etc are isolated and locked off throughout the job. All electrical equipment is inspected to a planed schedule All workers to inspect all electrical appliances pre- use and not to bring to site any equipment where the condition of cables, switches etc give rise to concern. 	<ul style="list-style-type: none"> No further action at this stage 	Manager	Low	16/12/09 SPI	no further action
Use of Mobile towers	Major / High	Workers and on site personnel may be seriously insured from a fall at height, materials falling. Overloading. Tower overturning. Arcing or contact with overhead cables	<ul style="list-style-type: none"> Tower scaffold will only be erected, altered or dismantled By trained operatives in accordance with manufacturer's instructions Tower scaffold should be erected on firm level ground for light work only. Guard rails and toe boards must be fitted where persons can fall more than two metres 	<ul style="list-style-type: none"> Scaffold towers will be inspected by a competent person, who will be responsible if necessary, for entries in scaffold inspection register Supervisor to check that scaffold towers are not being misused 	Scaffold Supervisor Supervisor	Low / Medium	16/12/09	monitor no further action
Use of Trestles and Trestle Scaffold	Major / High	Workers and materials may fall from Platforms. Trestles may collapse	<ul style="list-style-type: none"> All trestles must be positioned so that boards or staging is supported at recommended intervals. All platforms will be at least 450mm wide Where trestles are over two metres high, toe boards and guard rails will be fitted Trestle scaffold will not be erected on other scaffold Platforms unless sufficient space is allowed for access All trestles over 3.6 high will be tied to the building or shored to ensure stability Trestles must not be used where a person can fall more than 4.5 metres. 	<ul style="list-style-type: none"> All trestles will be inspected by a competent Person before use. Supervisor to ensure separate steps or Ladders are provided for access to all platforms 	Supervisor Manager	Low / Medium	16/12/09 SPI	monitor no further action

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Working on Scaffold	Major / High	Workers and materials falling from Scaffold. Plant, vehicle traffic, persons colliding with structure	<ul style="list-style-type: none">■ All scaffolds and working platforms will be property constructed in accordance with British Standards■ Scaffolds will only be erected, altered or dismantled by qualified trained operatives■ All scaffold components will be inspected before use■ Protection against falling materials will be provided by use of nets, brick guards, fans and toe boards as necessary■ Notices will be displayed on incomplete structures■ Safe access and egress to working platforms will be provided generally by means of Class 1 heavy duty ladders■ Before acceptance of handing over certificates, structures will be inspected with contractors representative.■ No scaffold will be used until it has been inspected by a competent person, who will be responsible for entries in Scaffold inspection register F91■ Additional to requirement of fitting of toe boards and guard rails to platforms over 2m high those over 1m high will be fitted with guard rails	<ul style="list-style-type: none">■ Scaffold platforms to be kept free of rubbish and unwanted materials at all times■ Supervisor to monitor scaffold via inspections and any adaptations by any person.	Operatives	Low / Medium	9/12/09	monitor
Supervisor					Supervise			
Manager					SPI			no further action
Crane Operations	Major / High	Cranes overturning- ground unsuitable overloading etc. arcing or contact with overhead cables or other obstructions. Materials falling during lifting operations Failure of lifting gear or equipment	<ul style="list-style-type: none">■ Craning operations will be supervised by a competent person other than crane driver.■ Appropriate test certificates in respect of appliance and lifting gear will be examined and copies retained on site.■ Driver of crane will hold a certificate of competence to drive and responsible for daily maintenance and completion of records■ Surface from which mobile crane is to operate will be prepared and checked to ensure stability■ Operatives engaged in slinging and banking will be trained and holders of certificates of training, copies of which will be retained on site.■ Slingers and bankers will be responsible for examining all lifting gear before use, ensuring stability and security of loads■ Regular checks will be made to ensure stability of crane.■ Slingers will be required to know weight of materials to be raised before commencement of lift■ If driver of crane cannot see load during whole of lifting operation, additional slinger/bankers will be used■ All overhead electric cables will be identified. Cranes will not operate within 6 metres plus extended jib length	<ul style="list-style-type: none">■ Supervisor to ensure all operatives trained and certified before commencing any slinging or crane lifting operations.■ Slinger to ensure all pallet loads are secured with net cage and proper crane attachments used■ Site Management is responsible for the safe operation	Supervisor	Low	2/12/09	monitor
Slinger					SPI		9/12/09	no further action
Manager								
Slinger								
Operator Supervisor Slinger								
Banks-man								
Supervisor								

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Use of Telescopic Material Handlers (Teleporters)	Major / High	Collision with other vehicles, plant, structures or pedestrians Arcing or contact with overhead power cables or other overhead obstructions. Falls of materials from the machine or machine overturning. Overloading or over-reaching	<ul style="list-style-type: none"> ■ Authorized operators only will be issued with keys. ■ UNDER NO CIRCUMSTANCES WILL TELESCOPIC MATERIAL HANDLERS BE OPERATED BY UNAUTHORIZED PERSONS. ■ Key will be removed and the machine locked when left unattended. ■ Attention must be given to terrain, load requirements, reach etc selecting telescopic materials handlers for use on site ■ All overhead obstructions including power cables will be identified marked and where necessary fenced or shrouded ■ Operators will be provided with information in regard to the machine capabilities and will ensure limits are not exceeded ■ Operators to be 18 or over, trained, certificated and authorized to drive Telescopic Materials Handlers responsible for daily maintenance, defect reporting and completion of register. 	<ul style="list-style-type: none"> ■ Supervisor to check speed limits are observed and secured overnight. ■ Trained banks-man required for safe hoisting and moving operations. ■ Vehicle reversing audible signal device must sound at all times when reversing. ■ Operator to complete daily and weekly checks. 	Supervisor Banks-man Telehandler Operator	Low / Medium	2/12/09 SPI	supervise daily checks
Demolition	Major / High	Premature collapse of building or part of building. Damage to property adjacent to site of demolition. Falls from the working place or access. Falls of material. Explosion, fire or electrocution. Health hazards to operatives and others e.g. Contaminants, asbestos, lead, dust etc	<ul style="list-style-type: none"> ■ Local Authority and HSE to be informed of proposed demolition if necessary ■ Adjacent property, building or part of building to be demolished will be surveyed and a report, in writing, prepared as to findings ■ A detailed Method Statement will be prepared and submitted for the approval of management before work commences to cover method of demolition, access, protection of workforce and members of public, arrangements for making safe gas, electric supplies. ■ Only competent and trained operatives will be permitted to carry out demolition work and certificates of competence will be inspected and kept on site. ■ Test certificates in respect of lifting appliances engaged in demolition inspected and kept on site ■ A detailed method for dealing with flammable or other hazardous materials, dust suppression, transport and disposal of waste 	<ul style="list-style-type: none"> ■ Supervisor to monitor progress at all stages and arrange scaffold adaptations. ■ Competent person will be appointed to supervise work. 	Supervisor Demolition Supervisor	Low	25/11/09	monitor areas of work
Working with Lead	Major / High	Exposure to lead dust, fumes and vapour are hazardous to health	<ul style="list-style-type: none"> ■ The nature and degree of exposure to lead will be assessed before work commences. ■ All those persons engaged in working with lead should receive information in regard to hazards. ■ Sufficient and adequate washing facilities must be available when required to handle or use lead 	<ul style="list-style-type: none"> ■ all employees exposed to lead must have adequate medical surveillance kept. ■ Supervisor to keep records of assessments. 	Supervisor	Low	16/12/09	monitor no further action

