

Demolition works at Base 51 - Nottingham

Client: Code Students	Site: Base 51	Job: 3143	Task: Demolition package	Start Date: January 2021
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The Site Supervisor (competent person) will undertake this risk assessments to ensure that all the significant risks are adequately controlled before commencement of work

If with all measures in place, the work is still considered to be unsafe, the Site Supervisor should seek advice from their Safety Manager.

Level of Likelihood	Severity of Hazard	Risk Rating
1. Extremely Unlikely	1. Minor Injury	1-5 Not significant
2. Unlikely	2. Less than 7 day injury	6-10 Low
3. Possible	3. 7 day Injury plus	11-15 Medium
4. Probable	4. Major Injury	16-20 High
5. Highly Likely	5. Death	21-25 Extreme

X	1. Extremely unlikely	2. Unlikely	3. Possible	4. Probable	5. Highly Likely
1. Minor Injury	Not significant	Not significant	Not significant	Not significant	Not significant
2. Less than 7 day Injury	Not significant	Not significant	Low	Low	Low
3. 7 Day Injury plus	Not significant	Low	Low	Medium	Medium
4. Major Injury	Not significant	Low	Medium	High	High
5. Death	Not significant	Low	Medium	High	Extreme

Formula: *Likelihood x Severity = Risk Rating*

e.g. Likelihood of 2 (Unlikely) x Severity of 3 (7 day injury plus) = Risk rating of 'LOW'

Where the initial risk rating is 5 or more, this should be reduced to a lower means practicable through implementation of control.

Removal of rubbish and soft strip of buildings

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Noise & dust from stripping out internal fixings	Operatives are at risk of Respiratory problems Chronic ear problems	3	4	12	Half mask with FFP3 filter Ear protection Good ventilation Exclusion zones Heras fence	2	4	8	Y
Manual handling of materials during soft strip out	Operatives are at risk Cuts to finger and hands Back injuries Pulled muscles Fractures of toes and feet	4	4	16	Use of waste trollies Development of drop zones P.P.E gloves, Safety boots	3	4	12	Y
Flying debris from stripping materials	Operatives are at risk of Cuts Eye injury	3	4	12	P.P.E safety glasses	2	4	8	Y
Slips trips and falls while removing rubbish	Operatives are at risk of Sprains Strains Cuts Fractures Head injury	4	4	16	Good house keeping Temporary lighting rigged if required P.P.E non slip footwear	3	4	12	Y

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Hand Tools to remove fixings	Operatives are at risk of Eye injury Strains Cuts Fractures	4	3	12	Tools must be properly maintained by competent persons. Operatives prior to their use must complete visual checks of tools and ensure they are in good working order. Specific checks should be made as follows: Chisels for mushroom heads, Hammer and crow bar for deterioration, Open-ended spanners for splayed jaws, Damage to pick and shovel handles. Eye protection is to be provided and used whenever work is done using cold chisels, drills, grinders or other tools where there is risk of flying particles or other pieces of the tool breaking off. Other PPE should be selected and used as appropriate. Open-bladed knives, screwdrivers, and other sharp tools are to be carried and used so as not to cause injury to the user or others. All tools should be kept clear of unnecessary grease,	2	2	4	Y
Contact with live services when removing fixings	Operatives are at risk of Electrocution Burns Fatality	5	5	25	Isolation of all services prior to soft strip Certificate issued to the site manager prior to soft strip Qualified person only to disconnect services Site Manager to have voltage detecting pen	2	5	10	Y
Working at height to remove fixings	Operatives are at risk of Fractures Head injury Back injury Fatality	4	5	20	Working at heights training Podiums Permit system MEWP Rescue plan Scaffold	3	5	15	Y

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Coming into contact unidentified asbestos materials	Operatives are at risk of Respiratory problems Cancer Asbestosis Mesothelioma Fatality	5	5	25	Asbestos demolition survey Induction Segregation Identification labels Asbestos CAT B training Background monitoring taking place Decontamination area to be set up.	2	5	10	Y
Asbestos Fibre release	Operatives are at risk of Respiratory problems Cancer Asbestosis Mesothelioma Fatality	5	5	25	EXCLUSION ZONE: Erect physical barriers to the working area to prevent unauthorised access during the works with signs displayed depicting men at work / or Access Prohibited warning signs. Site supervisor and machine operator to carry out walk around inspection of the working area. Ensure any adjacent structures will remain unaffected and safe. Ensure the floor slab has been cleared, is clean and free from obstructions. Ensure the slab is adequately dampened prior to the commencement of the works. Ensure that the machine is large enough to carry out the work at arm's length and that the machine is able to reach the required elements of the structure safely. Ensure fibre and dust reduction through pre-wetting, knock down water sprays. Clear away cut down sections progressively. Do not allow tracking or travelling of plant and machinery on asbestos debris. The correct RPE/PPE should be used at all times (Disposable coveralls (Type 5), Rubber gloves, Safety boots, FFP3 half face masks, Glasses, Hard Hat.). Carry out background and personal air monitoring to ensure control measures are effective. NNWL1 to be in place via the HSE website Sheets/debris to be placed into asbestos skips under Control Of Asbestos Regulations 2012	2	5	10	Y

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Fire within the buildings	Operatives are at risk of Burns Smoke inhalation Respiratory problems Damage to property Fatality	3	5		Fire plan Fire extinguishers No smoking on site designated area only Hot works permit	2	5	10	Y
Fire caused by burning	Operatives <ul style="list-style-type: none"> • Burns • Death • Scars • Lung Problems 	3	5	18	<ul style="list-style-type: none"> • Hot works permit • Fire marshal • Correct fire extinguisher • All flammable materials covered or moved 	2	2	6	Y

Telehandler/MEWP stability on poor ground	Operatives, other contractors and visitors Risk: Ground unable to support load	3	3	9	<ul style="list-style-type: none"> Assess ground conditions and see if stabiliser mats are needed 	2	1	2	Y
Telehandler/MEWP stability due to weight of the load	Operatives, other contractors and visitors Risk: Telehandler/MEWP overload OR over turn	3	3	9	<ul style="list-style-type: none"> Ensure weight of materials do not overload the maximum recommendations telehandler and MEWP. Telehandler/MEWP operative must have relevant training and cards MEWP/Telehandler must have operator's manual and relevant medical 	2	2	4	Y
Telehandler/MEWP stability due to mechanical failure	Operatives, other contractors and visitors Risk: <ul style="list-style-type: none"> Operatives being stuck in the air Boom not working on the telehandler or MEWP	4	1	4	<ul style="list-style-type: none"> Rescue plan in order Harness and lanyard in good working area Daily and weekly checks carried out on the plant and keep records 	1	1	1	Y
Movement of load	Operatives, other contractors and visitors Risk: Telehandler/MEWP collides with overhead obstacles	4	1	4	<ul style="list-style-type: none"> Routes planned and overhead obstacles marked Move to remain low as possible at all times Operator and banks men to be advised over any overhead danger 	2	1	2	Y

Remote demolition of buildings and associated works

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Noise & dust from remote demolition	Operatives and general public are at risk of Respiratory problems Chronic and acute ear problems Damage to property	4	4	16	Noise & Dust Management plan Well maintained plant Water suppression P.P.E FFP3 half mask	3	4	12	Y
Movement of plant during demolition	Operatives, site visitors and general public are at risk of Entrapment Crushing Damage to property	4	5	20	Traffic management plan Exclusion zone Heras fence panels Banksman Two way radios	2	5	10	Y
Delivery of plant/skips etc to site	Operatives, site visitors and general public at risk of Serious Injury Crushing Damage to property	4	5	20	Delivery restrictions Trained and competent banksmen for all deliveries Planning of major deliveries Exclusion zones	3	5	11	Y

Over turning of demolition plant	Operatives, site visitors are at risk of Crushing Entrapment Damage top plant Damage to property	3	4	12	Check all ground conditions Banksman Trained operatives only to use demolition plant	2	4	8	Y
Uncontrolled collapse of structure	Operatives, site visitors and general public are at risk of Crushing Damage to property Damage to plant and equipment	3	5	15	Trained operatives only to operate plant Exclusion zones Banksman Heras fence panels FOPS on plant	2	5	10	Y
Flying debris from remote demolition	Operatives, site visitors and general public are at risk of Impact injury Damage to property Damage to plant	3	4	12	Exclusion zones Heras fence panels Banksman	2	4	8	Y
Members of public coming onto site	Operatives Physical abuse	3	2	6	Heras fence panels double clipped Locked gate at all times	2	2	4	Y
Coming into contact with live services	Operatives and site visitors at risk of Serious Injury Burns	4	5	15	Co-ordinated of area/exclusion zone Toolbox talk Signage Banskmen Disconnection certifications	2	5	8	Y

Crushing of Hard-core

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Dust being generated from crusher	Operators, Operatives and members of public are at risk of Respiratory problems Lung cancer	4	4	16	Dust management system Water suppression RPE half mask with FFP3 filters Situates machine away from sensitive receptors	2	4	8	Y
Noise from crusher and excavator	Operators, Operatives and members of public are at risk of Acute and chronic ear problems	4	4	16	Noise management system Situates machine away from sensitive receptors RPE half mask with FFP3 filters	2	4	8	Y
Movement of crusher	Operator and operatives are at risk of Crushing Entrapment Fatality	4	3	12	Qualified crusher operator Crusher operated via remote Safe working zone Banksman P.P.E high visibility vest	2	3	6	Y

Hazard	Who is at risk and why	Initial Risk			Control measures	Risk Rating			Safe to work Y/N
		L	S	R		L	S	R	
Over turning of crusher and excavator on unstable ground	Operator and operatives are at risk of Crushing Entrapment Fatality Possibility of damage to property	4	4	16	Check ground conditions prior to work Safe working zone	2	4	8	Y
Movement of excavator	Operator and operatives are at risk of Serious injury Crushing Entrapment Fatality	3	4	12	Trained operators only on excavator Safe working area Banksman P.P.E high visibility	2	4	8	Y
Ejection of debris from crusher	Operator and operatives are at risk Of Serious head injury Eye injury	3	4	12	Safe working area P.P.E hard hat and safety glasses	2	3	6	Y

Assessor Name: William Crooks

Assessor Signature: WCS

Date: 09/12/2020

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