







Risk assessment for : Signature Homes Ltd (CR5 2RA)








Risk assessment name	First and Second Fix Plumbing	Assessment type	 General
Assessor name	Simon Harris	Affected site(s)	Signature Homes Ltd (CR5 2RA)
Assessment date	24/01/2020	Review period	Annually
Approved by	Simon Harris	Review date	24/01/2021
Approved date	24/01/2020	Reference	PLUMB 001

Description







1st & 2nd Fix plumbing

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 Adverse Weather	All staff, Operators How? hypothermia, heat stroke	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>PPE provided Provision of suitable PPE</p> </div> <div style="width: 45%;">  <p>Stopping work Work shall be stopped if weather conditions endanger health or safety</p> </div> </div> <div style="margin-top: 10px;">  <p>Welfare facilities Provision of suitable welfare facilities with adequate heating, cold and hot water</p> </div>	1 x 2  2 Low









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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Asbestos Dust/fibre</p>	<p>Contractors, Operators other site personnel</p> <p>How? inhaling asbestos fiber causing cancer</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> Asbestos awareness training All operatives are provided with asbestos awareness training to recognise Asbestos Containing Materials (ACMs)</p> <p> Asbestos survey Asbestos survey carried out prior to work commencing</p> <p> Asbestos Waste Regulation concerning asbestos waste disposal, transportation and labeling is applied. Double plastic sacks, suitably levelled are available for small waste, then tied and sealed. Large pieces are not to be cut but wrapped in plastic sheeting or placed in a totally sealed container or skip.</p> <p> Suspected asbestos reported When Asbestos Containing Materials (ACM) are suspected or presumed to be present work will cease immediately until sampling has been carried out and the results have been obtained</p> </div> <div style="width: 48%;"> <p> Asbestos Management In Place Information about the possibility of asbestos on site is provided in pre-construction information.</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>








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<div style="text-align: center;">  <p>Contaminated Water</p> </div>	<p>All staff, Contractors, Operators</p> <p>How? Leptospirosis, sickness and stomach cramps</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> GP inoculation advice to employees</p> <p>The Company advise that employees take suitable advice from their GP as to their suitability for inoculation</p> <p> PPE provided</p> <p>Suitable PPE provided and should be worn at all times.</p> <p> Welfare facilities</p> <p>Suitable welfare facilities provided with hot and cold water. No contaminated clothing to be brought into the the clean area or kitchen. Hands should be cleaned in warm water using hand wash and be thoroughly dried before entering eating areas</p> </div> <div style="width: 45%;"> <p> Health Surveillance</p> <p>Regular health surveillance checks carried out for employees who work with or are regularly exposed to contaminated water</p> </div> </div>	<p style="text-align: center;">2 x 3</p> <div style="text-align: center;">  <p>6</p> </div> <p style="text-align: center;">Medium</p>







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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Dust</p>	<p>Contractors, Operators other site personnel</p> <p>How? Result in coughing due to respiratory irritation, occupational asthma, and silicosis may result from long term exposure</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Dust masks are provided Respiratory protective equipment to be worn to prevent inhalation of dust when drilling or cutting</p> </div> <div style="width: 50%;">  <p>Eye Protection provided Eye protection is provided and should be worn to reduce the risk of dust particles irritating the eye.</p> </div> <div style="width: 50%;">  <p>Good hygiene practices Minimise the risk of contamination and spreading dust good hand washing procedures are observed. Protective overalls may also be provided and worn, if required</p> </div> <div style="width: 50%;">  <p>Health surveillance Health surveillance for silicosis and dermatitis where there is a reasonable likelihood that silicosis and dermatitis may occur</p> </div> <div style="width: 50%;">  <p>Information, instruction and training provided Information, instruction and training to be provided to staff on the importance of managing the risk of dust.</p> </div> <div style="width: 50%;">  <p>PPE provided PPE issued is inspected and maintained to ensure its continued efficiency. Reporting procedures are in place and PPE replaced where faults are detected</p> </div> </div>	<p style="text-align: center;">2 x 3</p>  <p style="text-align: center;">6</p> <p style="text-align: center;">Medium</p>








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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Electricity</p>	<p>Contractors, Operators</p> <p>Other site personnel</p> <p>How? Electric shock and potentially fatal injuries from faulty electrical equipment.</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> 110v electric tools used Tool fit for Purpose and electrical Safety Check Undertaken</p> <p> Pre-use checks Operators know to check all cables, leads etc. of all powered tools/ equipment before use, and to report all faults to their supervisor. Defective tools to be put out of use and tagged "not to be use"</p> <p> Regular PAT testing All electrical appliances to be Portable Appliance Tested (PAT) at regular and appropriate intervals</p> </div> <div style="width: 45%;"> <p> Electrical Supply Isolated Electrical Supply Isolated where applicable and locked out</p> <p> Site induction - Electrical safety During site induction, manager/responsible person to reinforce rules on electrical safety.</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>







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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Fall from height</p>	<p>Contractors, Operators Other site personnel</p> <p>How? Serious or fatal injury could occur if an operator falls from height. Others working below also at risk.</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>Pre-use check Pre-use check carried out each working day. Have an up-to-date record of the detailed visual inspections carried out regularly by a competent person in accordance with the manufacturer's instructions</p> </div> <div style="width: 45%;">  <p>Routine inspection Step Ladders are subject to routine inspection.</p> </div> </div> <div style="margin-top: 10px;">  <p>Suitable ground condition The ground base for ladder use must be firm and level</p> </div> <div style="margin-top: 10px;">  <p>Suitable Step Ladders Provided The both legs must be properly extended to form the a frame at the correct angle of rest, the platform and centre locking device must be in place and secured. The Step Ladders must be secured against slipping</p> </div>	<p>2 x 4</p>  <p>8</p> <p>Medium</p>









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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Fire, explosion</p>	<p>All staff, Contractors, Operators</p> <p>other site personnel</p> <p>How? All operatives in the vicinity could suffer from smoke inhalation or burns</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> Fire exits unobstructed Fire exits kept clear at all times</p> <p> Fire procedures in place Robust Fire Arrangements in Place. In the event of a fire immediately evacuate the area. All gangways to be kept clear of rubbish at all times No combustible material is left lying around and regular housekeeping during the course of work</p> <p> Monitoring and supervision Good housekeeping monitored by supervisor. Supervisor to brief all workers on first day on emergency arrangements agreed with principal contractor where applicable.</p> </div> <div style="width: 48%;"> <p> Fire fighting equipment provided Fire extinguisher to be kept close at all times, and fire blankets used where needed</p> <p> Training Ensure trade qualified before working on Gas appliances</p> </div> </div>	<p>2 x 4</p>  <p>8</p> <p>Medium</p>











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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Hot works</p>	<p>All staff, Contractors, Operators</p> <p>other site personnel</p> <p>How? Not carrying out hot works safely can lead to fire and explosion causing burns, serious and fatal injuries also damage to property</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;">  <p>Fire fighting equipment provided Fire extinguisher to be kept close at all times, and fire blankets used where needed</p> </div> <div style="width: 48%;">  <p>Good Housekeeping Observed All hot works area to be cleared of any debris</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 48%;">  <p>Hot works by permit to work only Hot works permits should be issued by the site supervisor before any soldering, cutting or grinding.</p> </div> <div style="width: 48%;">  <p>No Smoking All persons on site to follow the strict no smoking policy.</p> </div> </div>	<p style="text-align: center;">2 x 3</p> <div style="text-align: center;">  <p style="font-size: 24px; font-weight: bold;">6</p> </div> <p style="text-align: center;">Medium</p>






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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Lone working</p>	<p>All staff, Operators</p> <p>How? Could suffer injury or ill health while working alone</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> Lone Workers Contact System All events employees are to communicate both safe arrival and departure to and from the event.</p> <p> Lone working avoided Where hazardous substances or work at height is involved, lone working is avoided.</p> <p> Lone working procedures in place Assessment of the work to consider likelihood of injury and the possible consequences to the lone worker. First-aid facilities to treat minor injuries will be available during work periods; those working will be advised of this . Only experienced and trained operatives with no adverse medical history will be considered for working alone. The limits of work which is permitted, and the limits on the initiative of the individual must be clearly specified before work is authorised. Levels of training and experience for lone workers will include full understanding of the work, hazards, emergency procedures and the limits of the work which have been authorised and the limits on their own initiative</p> <p> Mobile telephone provided for contact Lone workers contactable by mobile phone. All lone workers are to communicate both safe arrival and departure to and from site/work location.</p> </div> <div style="width: 48%;"> <p> Lone workers fit for the work The health and fitness of workers to work alone is regularly monitored.</p> <p> Task assessment completed Tasks assessed to ensure there are no specific hazards that would prohibit lone working.</p> </div> </div>	<p style="text-align: center;">2 x 2</p> <div style="text-align: center;">  <p style="font-size: 24px; color: yellow;">4</p> </div> <p style="text-align: center;">Medium</p>








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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Manual handling</p>	<p>Contractors, Operators</p> <p>How? May suffer musculoskeletal disorders, such as back pain, from handling heavy/bulky objects.</p>	<p> Avoid manual handling operations on uneven ground Where this cannot be avoided, a task specific manual handling risk assessment will be conducted to establish the necessary controls.</p> <p> Information, instruction and training Individuals have received information, instruction and training in manual handling techniques. Training is provided in the use of mechanical handling equipment and further refresher training carried out as deemed necessary</p> <p> Manual handling guidance All materials will be below the recommended guidance for manual handling lifting weight of 25kg.</p> <p> PPE provided Suitable PPE provided (Safety boots with good grip, gloves, glasses)</p> <p> Suitable Trolley Truck Provided Where the movement requires short distances of materials operatives will use trolleys. They shall be trained to use trolleys</p> <p> Mechanical lifting aid provided Where possible, mechanical means to be used to transport materials. Used to manoeuvre heavy objects such as cast iron baths and heavy radiators.</p> <p> Provisions of Written Safe Systems of Work Operatives know and follow safe system of work for fitting of materials, including knowledge of maximum weight for an individual manual lift.</p> <p> Team Work System Operated Where this risk is minimal passage of materials between numbers of operatives.</p>	<p style="text-align: center;">2 x 3</p> <p style="text-align: center;"> 6</p> <p style="text-align: center;">Medium</p>









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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Noise</p>	<p>All staff, Contractors, Operators</p> <p>Other site personnel</p> <p>How? May suffer temporary or permanent hearing damage from exposure to noise from machinery</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;">  <p>Cordon off working area if necessary Areas cordoned off with appropriate signage to warn of activities taking place and the requirements for hearing protection.</p>  <p>Routine Maintenance Undertaken Planned maintenance programme for machinery.</p> </div> <div style="width: 48%;">  <p>Hearing protection provided Suitable hearing protectors provided for staff and staff trained how to use them. Check and maintain them according to advice given by supplier.</p>  <p>Training Adequate information, instruction and training is given to employees about the effects of excessive noise on hearing, noise control measures and the proper use and maintenance of hearing protection</p> </div> </div>	<p style="text-align: right;">1 x 2</p> <p style="text-align: center; color: green; font-size: 2em;">2</p> <p style="text-align: right;">Low</p>










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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Pressure testing</p>	<p>Contractors, Operators</p> <p>How? Risk of test fluid leaking from pipes and components used in the system. Workers can suffer severe injuries to body tissue from high pressure fluid penetrating the skin</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Competent Person to carry out pressure testing. Only person trained and deemed competent to carry out pressure testing.</p> </div> <div style="width: 50%;">  <p>Cordon off area to prevent unauthorised access Cordon of work area as necessary to prevent access and erect pressure testing signage.</p> </div> <div style="width: 50%;">  <p>Initial low pressure check All components of the system to be tested at low pressure, to identify any small leaks prior to the pressure being increased.</p> </div> <div style="width: 50%;">  <p>PPE provided and must be worn at all times Workers to wear gloves at all times and impact resistant eye protection to be worn at all times</p> </div> <div style="width: 50%;">  <p>Visual checks of fittings and other components Visual checks for leaks, do not touch fittings or components with your hands.</p> </div> </div>	<p style="text-align: center;">1 x 3</p> <p style="text-align: center;"> 3</p> <p style="text-align: center;">Low</p>











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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Scalding with hot water - domestic water supply</p>	<p>All staff, Contractors, Operators</p> <p>How? Burns, scalding injuries and potentially fatal injuries</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Appropriate first Aid kit provided and location identified during induction. Trained and competent first aider available.</p> </div> <div style="width: 50%;">  <p>Accident Reporting Procedure in place Accident procedure contained in your employee handbook. Ensure to report all accidents immediately.</p> </div> <div style="width: 50%;">  <p>All staff aware of the potential for water to be scalding hot when working on systems Operatives should have training in the different methods for storing hot water before attempting to work on the system.</p> </div> <div style="width: 50%;">  <p>Allow for cooling time of the hot water before draining the system, Operatives should not attempt to drain hot water and heating systems until they have sufficiently cooled.</p> </div> <div style="width: 50%;">  <p>PPE provided Suitable Gloves to be provided and used when working on hot water and heating systems.</p> </div> <div style="width: 50%;">  <p>Training and supervision Adequate training and supervision provided to ensure that staff understand the risks and precautions</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>














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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p style="text-align: center;">Slips and Trips</p>	<p>Contractors, Operators other site personnel</p> <p>How? All operators and persons nearby, may suffer sprains, bruising or fractures if they trip over objects or slip on spillages</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Clear walkways Work area is kept tidy and walkways free from trip hazards.</p> </div> <div style="width: 50%;">  <p>Correct disposal of bio waste. All bio waste is disposed of using the correct waste disposal stream/procedures. With documented audit trails established so that full traceability is maintained.</p> </div> <div style="width: 50%;">  <p>Good Housekeeping Good housekeeping maintained at all times.</p> </div> <div style="width: 50%;">  <p>Safe access route Safe route to workplace agreed with principal contractor based on construction phase health and safety plan</p> </div> <div style="width: 50%;">  <p>Safety footwear provided to all workers. Workers are provided with anti slip footwear</p> </div> <div style="width: 50%;">  <p>Site visits & inspection Manager to check on-site housekeeping during visits</p> </div> <div style="width: 50%;">  <p>Waste disposed of in skip Routine clearance of litter and other waste materials from floor / work area/building</p> </div> </div>	<p style="text-align: center;">2 x 3</p>  <p style="text-align: center;">6</p> <p style="text-align: center;">Medium</p>







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Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Soldering, use of blow torch</p>	<p>All staff, Contractors, Operators other site personnel</p> <p>How? Risk from Burns, fire, electricity, inhalation of potentially hazardous fumes</p>	<p> Avoid flux fumes The person soldering to keep their head out of the flux fume at all times</p> <p> Fire fighting equipment provided Portable CO2 fire extinguisher to be sited next to the works at all times.</p> <p> Hot works by permit to work only Hot works permits should be issued by the site supervisor before any soldering</p> <p> Trained and competent plumbers Only trained and qualified plumbers to complete soldering works.</p>	<p> Avoid/remove combustible materials Hot work not carried out in the vicinity of combustible materials</p> <p> Gloves should be worn Gloves to be worn when handling hot pipes and other materials</p> <p> Respiratory Protective Equipment provided and worn when required The use of RPE to be considered if flux fume levels are considerable.</p> <p> Use of low risk flux Low risk flux to be used whenever practicable. Instructions on MSDS to be followed at all times</p>	<p>1 x 3</p> <p> 3</p> <p>Low</p>








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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Use of hand tools</p>	<p>All staff, Contractors, Operators</p> <p>How? Could suffer injuries to hands, feet, body and eyes from tools</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> Eye Protection provided Suitable eye protection to be provided whenever there is a risk of flying objects or pieces of the tool breaking off.</p> <p> Sharp tool sheathed Sharp tools to remain sheathed when not in use.</p> <p> Tool monitoring by management Management monitor tools for deterioration through use. Tools to be replaced when necessary.</p> </div> <div style="width: 48%;"> <p> PPE provided Suitable gloves and long sleeve protective clothing should be worn when carrying out work around sharp objects such as broken ceramics.</p> <p> Tool maintenance Regular checks on tools to ensure in good order and in good repair</p> <p> Training in the use of hand tools Training provided to operatives on the use of all hand tools safely with particular attention to cutting tools and how to change blades.</p> </div> </div>	<p style="text-align: center;">2 x 3</p> <div style="text-align: center;">  <p style="font-size: 24px; font-weight: bold;">6</p> </div> <p style="text-align: center;">Medium</p>
 <p>Working at height</p>	<p>Contractors, Operators</p> <p>Other site personnel</p> <p>How? Falls from height can result in cuts, bruises, broken bones and other serious injuries</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> Correct type & size of ladder is used at all times Only industrial ladders are used to undertake installation tasks, where ladder use is required. Ladders and hop ups must only be used for work that is short in duration i.e under 30 minutes.</p> <p> Do not use during adverse weather Ladders are not used in extreme weather conditions</p> </div> <div style="width: 48%;"> <p> Defective ladders not used Any defective ladders are removed from use until they are repaired or replaced. Reporting procedures in place for fault detection</p> </div> </div>	<p style="text-align: center;">2 x 4</p> <div style="text-align: center;">  <p style="font-size: 24px; font-weight: bold;">8</p> </div> <p style="text-align: center;">Medium</p>

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		<p> Employees are trained in the use of step ladders, ladders All staff receive training in the safe use of ladders and hop ups. Training records are maintained and refresher training given periodically. Staff must not overreach whilst on the ladder and must maintain 3 points of contact at all times.</p> <p> Exclusion zone Exclusion zone created around work at height area</p> <p> Ladder on firm level ground Before using a ladder the ground is assessed. A 4 out 1 up rule (75 degree angle) is used and maintained when erecting ladders. Pre-use checks are completed for ladders. Safe working loads must be displayed on the ladder and this safe working load must not be exceeded. Only class 1 industrial and EN131 commercial ladders are permitted to be used for work activities.</p> <p> Ladders are regularly inspected Records kept of ladder inspection and ladders are marked as suitable for use. Where ladders are to be removed from service "DO NOT USE" tags are placed on the ladder.</p> <p> Ladders Stored Securely Ladders Stored Securely and no unauthorised access to ladders</p> <p> Safe systems of work Safe systems of work for working at height provided. All involved are aware of and understand safe system of work</p>	

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		 Work at height training All employees receive work at height awareness training. Work at height training suitable to the activities required to be undertaken by staff is provided. All staff receive refresher training, as required	
 Workplace transport	Contractors, Operators other site personnel How Many? Risk serious or even fatal injuries from being struck by moving vehicles	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  Hi Visibility clothing provided and must be worn Staff to wear high-visibility clothing while on site. </div> <div style="width: 45%;">  Safe access route on site Safe route to workplace and to welfare facilities, agreed with site manager based on site health and safety plan </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  Segregated pedestrians Pedestrian and vehicle routes are marked and physically separated where possible </div> <div style="width: 45%;">  Site induction Include traffic/vehicle control in site induction before beginning work on day one. </div> </div>	2 x 3  6 Medium

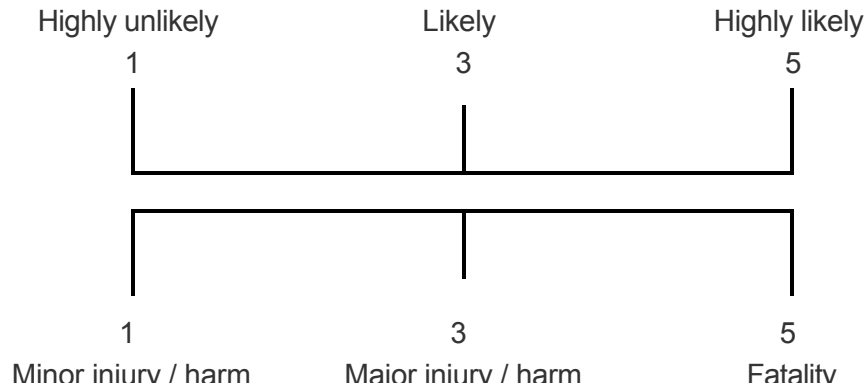
Further control measures

None required

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Risk rating explanation

Risk ratings are calculated by considering the likelihood of an event occurring along with the severity of the potential consequence should an accident occur. After considering existing control measures, values are assigned to the likelihood and severity from the scales below and these figures multiplied to established the risk rating.



	5	10	15	20	25
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	Severity				

Probability

What do your risk ratings mean?

- Risk is categorised as LOW: Look to reduce risk if practicable
- Risk has been categorised as MEDIUM: Begin to plan your action to reduce the risk immediately
- Risk has been categorised as HIGH: Immediate action required to reduce the risk

Assessor's signature: Simon Harris

Approved by signature: Simon Harris