GENERAL HEALTH AND SAFETY RISK ASSESSMENT FORM

| Site | **Derby TRAIN Facilty**  | **Department** | **Engineering/Civil** | **Version / Ref No.** |  |
| --- | --- | --- | --- | --- | --- |
| **Activity Location** | **Reopening of the TRAIN Facitly for**  | **Activity Description** | **Return to Campus COVID-19: Building Risk Assessment****Two members of staff to return to the TRAIN facility to carry out testing.**  |
| **Assessor** | **Karl Snape**  | **Assessment Date** | **07/01/21** | **Date of Assessment Review** | **Monthly** |
| **Academic / Manager Name** | **Dr David Soper**  | **Academic / Manager Signature** |  |
| Hazard Assessment | Control Assessment | Actions |
| Hazard Category | Hazards Identified | Who might be harmed?StaffStudentsContractors Others | How might people be harmed? | Existing Control Measures | Initial Risk Rating | Are these adequate?Yes/No | Changes to/ Additional Controls | Residual Risk Rating | Owner | Due Date | Action Complete |
| S | L | R | S | L | R |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Organisational | Psychological well being | Staff  | Anxiety and stress caused by concerns around returning to work and studies on Campus | Regular communication is in place (individual and group) via weekly Head of School briefings, School Committee, School Health and Safety Committee and team meetings and 1-to-1 meetings which are normally held on zoom or skypeto ensure staff and students are not ill-informed about returning to work safely.Advice is shared with staff who have been fully briefed and kept up to date with current advice on staying protected through the University’s lines of communications (i,e line managers, Internal Comms) and shared with staff via weekly Head of School briefings and staff mailing lists. Information to be available on School sharepoint sites and the University’s Coronavirus FAQs . An electronic copy of this general risk assessment can also be found in the [School H&S website](https://intranet.birmingham.ac.uk/eps/eps-school-intranets/engineering/Health-and-Safety-Engineering.aspx) New workplace/controls put in place to reduce risk of exposure to COVID 19 are documented in procedures and policies and disseminated to employees through Line Managers and one-to-one meetings. These include:* ***Social distancing: General guidance for staff and students***
* ***Social distancing: Buildings adaptations guidance***
* ***Social distancing***: ***Product solutions booklet***
* ***Social distancing: Building checklist***
* ***On-line induction materials for returning to campus***: combination of the guidance and videos.

https://intranet.birmingham.ac.uk/staff/coronavirus/essential-resources-and-checklist.aspx* ***Return to Campus COVID-19: Building Risk Assessment* (This completed Risk Assessment)**

Line managers are aware of how big changes to working arrangements may cause additional work-related stress and affect their employees’ mental health and wellbeing. [Wellbeing link](https://intranet.birmingham.ac.uk/hr/wellbeing/index.aspx) | 4 | 3 | 12 | No until additional controls are in place | By providing information as described and giving contact details for sources of help to staff who may have concerns we will minimise this risk. | 2 | 2 | 4 | Technical manager | Ongoinging until futher notice |  |
| Organisational | Psychological well being | Staff | Anxiety and stress caused by concerns around returning to work on Campus | Managers hold regular informal discussions with their team and look at ways to reduce causes of stress. Concerns on workload issues or support needs are escalated to line manager.Employees are made aware of supportive mechanisms available to them (e.g. counselling, occupational health, HR, etc) through line managers, internal communications and University webpages: <https://intranet.birmingham.ac.uk/staff/coronavirus/faqs-for-staff.aspx><https://intranet.birmingham.ac.uk/hr/wellbeing/index.aspx><https://intranet.birmingham.ac.uk/hr/wellbeing/workhealth/index.aspx> | 4 | 3 | 12 | no | Line managers will sign post anyone with concerns to relevant guidance and support. | 2 | 2 | 4 |  |  |  |
| Biological | Virus transmission in the workplace | Staff  | Exposure to respiratory droplets carrying COVID-19 from an infectious individual transmitted via sneezing, coughing or speaking. | ***Specific individual worker risk assessments*** undertaken for those who have a self-declared health condition which could increase their risk profile.***Social distancing: Building checklist***for Civil Engineeeing lab has been completed to identify the control measures to consider reducing the risk of workplace infections.Staff continue to work remotely where possible. Managers ensure staff with any form of illness do not attend work and the actions to be taken if this situation arises. Guidance on Returning to work which outlines the actions to be taken in event of someone becoming ill with Coronavirus will be communicated by email through HoS and line managers, then reinforced through staff inductions that will take place for anyone who requests access to building.The University’s [***On-line induction materials for returning to campus***](https://intranet.birmingham.ac.uk/staff/coronavirus/essential-resources-and-checklist.aspx) combination of the guidance and videos have been provided and completed for all staff returning to work in University buildings*.* The School Head of Operations or the Operations Officer for the School will keep track of when staff report that they are off sick or self-isolating with the symptoms of coronavirus. They will also record when they can return to work after the symptom free period. Schedules for essential services and contractor visits are being revised to reduce interaction and overlap between people e.g., carrying out services out of hours.  | 4 | 3 | 12 | Yes | Staff who are clinically extremely vulnerable will not be allowed back to campus. Staff who are clinically vulnerable will be advised to work at home where possible.  | 4 | 1 | 5 |  |  |  |
| EnvironmentalEnvironmentalEnvironmentalEnvironmentalEnvironmental | Virus transmission in the workplace due to lack of social distancing Virus transmission in the workplace due to lack of social distancing Virus transmission in the workplace due to lack of social distancing Virus transmission in the workplace due to lack of social distancing Virus transmission in the workplace due to lack of social distancing  | Staff Contractors Visitors | Exposure to respiratory droplets carrying COVID-19 from an infectious individual transmitted via sneezing, coughing or speaking.Exposure to respiratory droplets carrying COVID-19 from an infectious individual transmitted via sneezing, coughing or speaking.Exposure to respiratory droplets carrying COVID-19 from an infectious individual transmitted via sneezing, coughing or speaking.Exposure to respiratory droplets carrying COVID-19 from an infectious individual transmitted via sneezing, coughing or speaking.Exposure to respiratory droplets carrying COVID-19 from an infectious individual transmitted via sneezing, coughing or speaking. | Workplace routines changed to ensure room/building capacity calculated to maintain social distancing is not exceeded including * Only two members of staff in attendance at any one time
* Staff to liase with one another prior to arrival ensuring safe distance of 2 mtrs is maintained

Access to the Facilty is limited to key holders, due to lone working policy no indervidual attendance is permitted. Any attendance to the facilty is by prior arrangement beween staff.The following will be checked for each person wanting access to the facilty * They have completed and can prove they have done the [University return to work canvas course](https://canvas.bham.ac.uk/courses/43230)
* Have a risk assessment for their work signed off by their supervisor
* Have been given the School Covid induction
* Limited to two persons at the rig (minimum required for operations)

Work has been arranged so that staff are able to maintain the government guidelines for social distancing based on our industry which are included in the ***Social distancing: Civil lab checklist***(The latest Guidance on these measures can be found by clicking the following link [Social Distancing Guidelines](https://www.gov.uk/guidance/social-distancing-in-the-workplace-during-coronavirus-covid-19-sector-guidance#shops-running-a-pick-up-or-delivery-service)). Operation of the firing rig can be done with two competent members of staff whislt mainting 2m+ distance. Tasking in the firing order of the rig can be carried out with the tasks devided between one person organising the break aspects and the other organising the firing aspect. Upon firing the rig under test conditions both members can remain in seprate offices mainting 2m social distance as required.Staff activities are segregated to promote 2 metres distance including: * Areas of work marked out with floor tape to ensure adequate social distancing is in place. Visual management aids in place to remind people of the need for social distancing,
* Staff capacity limits have been set (two persons) for minimum amouts for required operation
* Staff encouraged to remain on-site including bringing their own lunch and, when not possible, maintaining social distancing while off-site.
* Where available safe outside areas used for break.
* All users are encouraged to wash their hands prior to eating in the welfare areas and again when they have eaten. Additional signage for the correct method for handwashing is displayed.
* Social distancing is marked on the floor prior to entry to the WCs (toilets).
* Doors are key locked so no unauthorised entry can occur. Signage will be placed on doors whislt staff are present and rig is in operation.

All corridors are :* Marked in areas to ensure social distancing is adhered to (lines on floor 2m apart).
* One way system is encorperated into the working practices. Main working corridor has two ingress points where by staff can enter there relevant working area maintaining distance as required.

Social gathering amongst employees have been discouraged whilst at work including meetings where alternative arrangements have been provided e.g. Zoom and Skype. Managers and technical team to perform frequent evaluation against social distances controls through the review the risk assessment every month as a minimum or after any significant increase in staff numbers. Posters are displayed throughout the building reminding people about social distancing. Managers will reinforce the message about social distancing via the building induction and the weekly staff meetings on zoom. It is not envisaged that there are processes where the social distancing guidelines cannot be followed. But if this does arise in the future then a risk assessment will have to take place before the process starts which considers whether that activity needs to continue, and, if so, where it does need to continue all the mitigating actions possible to reduce the risk of transmission between staff have been included in a task specific risk assessment and are being taken. Mitigating actions include: * Further increasing the frequency of hand washing and surface cleaning.
* Keeping the activity time involved as short as possible.
* Using back-to-back or side-to-side working (rather than face-to-face) whenever possible.
* Reducing the number of people each person has contact with by using ‘fixed teams or partnering’ (so each person works with only a few others).
* Re-engineering the technical activity by adjusting working practices involved in normal operation.

Hygiene guidance given such as avoiding touching eyes, nose, mouth and unwashed hands, cover your cough or sneeze with a tissue, and throw it away in a bin and wash your hands. Adequate training has been made on what PPE is required (i.e. gloves, masks, aprons, Filtering Face Pieces (P3), goggles, the correct donning/doffing of PPE and face fit testing. Government advice is followed:<https://www.gov.uk/government/collections/coronavirus-covid-19-personal-protective-equipment-ppe><https://www.gov.uk/government/publications/covid-19-decontamination-in-non-healthcare-settings/covid-19-decontamination-in-non-healthcare-settings> | 4 | 3 | 12 | Yes |  |  |  |  |  |  |  |
| Biological Biological | Suspected case of COVID-19 Suspected case of COVID-19  | Staff | Exposure to respiratory droplets carrying and contact with an object that has been contaminated with COVID-19.Exposure to respiratory droplets carrying and contact with an object that has been contaminated with COVID-19. | Response plan in place in the event a confirmed or suspected case of COVID-19 and communicated and includes:* If a person becomes unwell in the workplace with suspected COVID-19, they will be sent home in accordance to the University guidance. Managers will follow the NHS Test and Trace workplace guidance: <https://www.gov.uk/guidance/nhs-test-and-trace-workplace-guidance>
* The area will be cleaned in accordance with the specific Government [guidance](https://www.gov.uk/government/publications/covid-19-decontamination-in-non-healthcare-settings/covid-19-decontamination-in-non-healthcare-settings) and includes:
	+ Cleaning an area with sanitiser after someone with suspected COVID-19 has left will reduce the risk of passing the infection on to other people
	+ Where possible the area will be closed and secure for 72 hours, before cleaning as the amount of virus living on surfaces will have reduced significantly by 72 hours
	+ Disposable gloves, masks and aprons will be worn for cleaning. These will be double bagged, then stored securely for 72 hours then thrown away in the regular rubbish after cleaning is finished
	+ Once symptomatic, all surfaces that the person has come into contact with will be cleaned (including touchpoints)
* Provision and monitoring of adequate supplies of cleaning materials are in place.
* Team briefed on actions to be taken in the event of someone being suspected of having COVID-19.
* Staff must tell their line manager if they develop symptoms. Absence will be managed in accordance to the University guidance provided.
* Employees to follow the Government advice: <https://www.gov.uk/coronavirus>
* Line managers will maintain regular contact with staff members during this time and monitor for signs of symptoms in the remaining workforce and keep Senior Managers informed of the situation whilst following the Government’s guidance for contact tracing: contact with co-workers: <https://www.gov.uk/guidance/nhs-test-and-trace-workplace-guidance>
* If multiple cases of coronavirus appear in a workplace, an outbreak control team from either the local authority or Public Health England will, if necessary, be assigned to help the University manage the outbreak. The University will seek advice from the local authority in the first instance.
* Staff will be told to isolate because they:
	+ have coronavirus symptoms and are awaiting a test result
	+ have tested positive for coronavirus
	+ are a member of the same household as someone who has symptoms or has tested positive for coronavirus
	+ have been in close recent contact with someone who has tested positive and received a notification to self-isolate from NHS test and trace.
* Line managers hold discussions with their staff to identify those considered in ‘at risk’ groups - which include those who are 70 or over, have a long-term condition, are pregnant or have a weakened immune system, or are living/caring for someone in these groups and will ensure additional measures are put in place to protect them including working from home.
* Staff have been encouraged to download the government COVID-19 contract tracing app when It becomes available.
 | 4 | 2 | 8 | Yes | In the occurrence of either or both members of staff become symptomatic, they are to cease operations and inform co worker and line manager. Floow relevant guidance on self isolation. On confirmation of a case within our buildings the Schhols operations team together with line managers will email all staff and students who have building access informing them of the actions taken and any additional requirements they should follow. We will also reinforce our advice on who to contact if they have any concerns.Team is limited to numbers for essential operation only (two) in the occurrence of symptoms both members are to self isolate and follow policy and guidance.  | 4 | 1 | 4 |  |  |  |
| Biological | Someone entering the workplace with COVID-19 |  | Exposure to respiratory droplets carrying and contact with an object that has been contaminated with COVID-19. | Services are working with the University’s supply chain to ensure that they’re adopting good practices to prevent the spread of COVID-19 to discuss arrangements and control measures. Anybody visiting site will be informed that they are not to enter if they’re experiencing COVID-19 symptoms or should be self-isolating under the government Guidelines.If a person becomes unwell in a University workplace with suspected COVID-19, they will be sent home in accordance to their company’s guidance. University managers will follow the NHS Test and Trace workplace guidance for any University staff that may have come into contact with them: <https://www.gov.uk/guidance/nhs-test-and-trace-workplace-guidance> | 4 | 2 | 8 | Yes |  |  |  |  |  |  |  |
| EnvironmentalEnvironmentalEnvironmentalEnvironmental | Virus transmission in the workplaceVirus transmission in the workplaceVirus transmission in the workplaceVirus transmission in the workplace | Staff Contractors | Contact with an object that has been contaminated with COVID-19 and which subsequently transmits this to another person e.g. surfaces, any inanimate objects & touch points including work surfaces, work equipment, door handles, banisters, chair arms and floors.Contact with an object that has been contaminated with COVID-19 and which subsequently transmits this to another person e.g. surfaces, any inanimate objects & touch points including work surfaces, work equipment, door handles, banisters, chair arms and floors. | Individuals have been instructed through the building induction and are regularly reminded to clean their hands frequently with soap and water for 20 seconds and the importance of proper drying in accordance with the NHS Guidance:<https://www.nhs.uk/live-well/healthy-body/best-way-to-wash-your-hands/>Posters are displayed around the workplace including in welfare facilities.Soap and water and hand sanitiser are provided in the workplace and adequate supplies are maintained and are placed at the entrance to the building and in other areas where they will be seen.Individuals are reminded to catch coughs and sneezes in tissues – Follow: “Catch it, Bin it, Kill it” and to avoid touching face, eyes, nose or mouth with unclean hands. Posters are displayed around the workplace.To help reduce the spread of coronavirus (COVID-19) individuals are reminded via the Covid newsletter produced by the University and emailed to staff; building induction.<https://www.gov.uk/government/publications/coronavirus-outbreak-faqs-what-you-can-and-cant-do/coronavirus-outbreak-faqs-what-you-can-and-cant-do>A review of the cleaning regime, for the building/area including technical staff cleaning touch points in welfare area, toilets, printers and communal areas on an hourly basis should cleaning support not be available to ensure controls are in place to keep surfaces clean and free of contamination, cleaning products and disposable cloths have been made available to all occupants and everyone has been briefed on the importance of keeping surfaces and work equipment clean. One way systems in place and where this is not possible, notices explaining social distancing measures are displayed. Anyone using equipment and tools will be expected to clean any touchable surfaces, control panels, adjustment handles, etc after an equipment session so that it is clean for the following person has been arranged and communicated (during induction). Technical staff will be on hand to ensure that this is being done.There is limited or restricted use of high-touch items and equipment, for example, printers. Sharing of equipment is restricted where possible (additional equipment/hand tools may need to be purchased), and cleaned / disinfected before and after use. Objects and surfaces that are touched regularly are cleaned frequently with provided wipes, such as door handles and keyboards, and making sure there are adequate disposal arrangements.Internal doors that **are not** signed as fire doors (unless held open with a mechanical device) kept open whilst working (last person out shuts the doors) to prevent multiple people using door handles. Use of hot desks and spaces avoided and, where not possible e.g. training facilities, workstations are cleaned with provided wipes between different occupants including shared equipment.There is clear desk policy in place to reduce the amount of items left on work benches to be practiced when the space is in use or not in use.Incoming deliveries and goods entering the building will be quarantined for 72hrs and greater handwashing and handwashing facilities have been introduced for workers handling these items on delivery with hand sanitiser provided where this is not practical. Everyone is encouraged to keep personal items clean including washing spectacles with soap and water, clean phones, keyboards and shared machinery handles etc before after and during work. Staff have been encouraged to bring their own food and kitchen utensils including mugs/cups, cutlery etc.Lab clothing and equipment such as goggles washed on-site rather than by individual staff members at home.COVID-19 cleaning products used have a current valid chemical risk assessment in place and are used in accordance with all prescribed risk controls and monitoring requirements. They are stored so that they are readily available to all users and are labelled according to the Globally Harmonised System of Classification and Labelling (GHS). (See location specific chemical risk assessments for cleaning products used within the area). All university staff are encouraged to avoid direct personal contact with others i.e. shaking hands etc. | 4 | 2 | 8 | Yes |  |  |  |  |  |  |  |
| Organisational Organisational | Exposure to Existing HazardsExposure to Existing Hazards | Staff Contractors | Increased risk of harm due to controls included in existing risk assessments & safety arrangements affected by COVID-19 measuresIncreased risk of harm due to controls included in existing risk assessments & safety arrangements affected by COVID-19 measures | All relevant pre-existing (non COVID) risk assessments including lone working assessments and procedures have been reviewed to take into account the impacts of social distancing and other COVID counter measures.PPE related risk assessments have been reviewed to ensure that PPE is provided on an individual basis. Usage is monitored to ensure suitable level of stock of certain PPE such as face masks etc during this time due to global shortages. Individuals maintain their own equipment in a sterile condition. Storage has been reviewed to provide individual storage arrangements. The taking of PPE home is not permitted.Emergency Procedures reviewed and revised including:* **Communication**: the building specific induction training informs people that in an emergency, for example, an accident or chemical spill or fire, people do not have to stay 2m apart if it would be unsafe.
* **Fire procedures:** number and details of nominated fire warden(s) in place, fire muster point confirmed and PEEP requirements defined including who will assist with their evacuation in an emergency. Required modifications to fire alarm practices and evacuation drills to cater for COVID-19 measures have been addressed; ensuring that the activity is still compliant with relevant building and fire codes.
* **First Aid:** First aid needs assessment reviewed to take into account any new Guidelines issued by the [University](https://intranet.birmingham.ac.uk/staff/coronavirus/faqs-for-staff.aspx) or [HSE](https://www.hse.gov.uk/), and first aid information including the location of first aid kits and first aider contact information up to date.
* **Hygiene:** Washing facilities with soap/gel available (see Cleaning below). People involved in the provision of assistance to others have been informed to pay particular attention to sanitation measures immediately afterwards including washing hands.

Safety critical roles will remain in place to aid safe operation. In the event of safety critical roles not being available then a dynamic risk assessment shall be performed by the safety coordinator to ensure measures are introduced to mitigate risk (for example, another area within the building or campus could have a critical role such as first aider that could cover as a temporary solution).Business continuity and disaster recovery plans updated based on COVID-19 implications including Contingency plan in place for possible switch back to lockdown.Life-saving rules, will continue to be governed, enforced and communicated during COVID-19 in particular “speaking up” if they witness any unsafe behaviours, conditions or symptoms related to COVID-19. | 2 | 2 | 4 | Yes | Lone working will not be allowed whilst virus is circulating amongst the general population. If people do have to work at distances less than 2 metres apart they will wear appropriate PPE and where possible will work with the same colleague to minimise risk to others. |  |  |  |  |  |  |
| Environmental | Inbound & Outbound Goods including Post | Staff | Exposure to contact with an object that has been contaminated with COVID-19. | As stated above all deliveries, collections from stores and post to be quarantied upon arrival. Forklift controls, seat and grab hadles to be wiped down after use ready for next person. | 4 | 2 | 8 | Yes | All deliveries will be transported by staff members after the quarantine period has expired to the train facility from the main stores at university main site  |  |  |  |  |  |  |
| Environmental | Virus transmission outside of the workplace | Staff ContractorsOther | Exposure to respiratory droplets carrying and contact with an object that has been contaminated with COVID-19. | On the outside / approach to the building there is signage to warn all prior to entering this building social distancing is in place (keep 2m apart).There is signage advising staff to wash their hands regularly and not to touch their face.There are two separate entrances to the building for access and two separate doors for egress and one-way systems are inforce in the building.It is not envisaged that there will be any quing to enter the building but the situation will be monitored and action taken if needed. | 4 | 2 | 8 | Yes |  |  |  |  |  |  |  |
| Organisational | Travelling to work | All | Exposure to respiratory droplets carrying COVID-19. | Sufficient parking restrictions to maintain social distancing measures in place.Workers told to avoid public transport where applicable and using alternatives e.g. cycling, walking to work etc. Where staff are not able to avoid public transport they do so in accordance with Government and University Guidance: <https://www.gov.uk/coronavirus>https://intranet.birmingham.ac.uk/staff/coronavirus/faqs-for-staff.aspx | 4 | 2 | 8 | Yes |  | 4 | 1 | 4 |  |  |  |
| Organisational | Driving at work | All | Exposure to respiratory droplets carrying and contact with an object that has been contaminated with COVID-19. | Travel to the site will only be carried out for preplanned operations resulting in no unneccesary visitation of the facility.Both staff members will be using there own vehicles to attend the site reducing chance of contractionTwo-person deliveries, movement of equipiment and materials are avoided typically due to the use of mechanical aids such as cranes and forklifts. | 4 | 1 | 4 | Yes | Staff will arrange travel times to ensure staggered visitation. Both members have indervidual access and will maintain communication prior to visiting |  |  |  |  |  |  |
| Mechanical | Machinery & Equipment | Staff | Exposure to respiratory droplets carrying and contact with an object that has been contaminated with COVID-19. | Equipment and surfaces that are touched regularly will be frequently cleaned and disinfected. Sterilising chemicals and cloths are provided in the area to clean machines and equipment prior to the commencement of work and upon completion. If machines and equipment are shared, sterilising will be carried out between operations.Cross wind generator The cross wind generator is fundamental to operations, functionally it agitates flow in a confined cyclic function, surfaces and fans will be cleaned with approved chemicals prior to and after use whislt wearing appropriate PPE. One person to engage with this task at a time. | 4 | 2 | 8 | Yes | Staff will be advised to clean their equipment work area after every use |  |  |  |  |  |  |
| Environmental | Ventilation |  | Exposure to respiratory droplets carrying COVID-19. | There is no ventilation in the building other than natural.Building users are encouraged where possible to ensure windows are open and closed upon exit from that area. | 4 | 1 | 4 | Yes |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Risk Assessment Guidance**

Risk Scoring System

The scoring system is provided as a tool to help structure thinking about assessments and to provide a framework for identifying which are the most serious risks and why.

|  | **Consequence / Severity score (severity levels) and examples of descriptors**  |
| --- | --- |
|  | **1**  | **2**  | **3**  | **4**  | **5**  |
| **Domains**  | **Negligible**  | **Minor**  | **Moderate**  | **Major**  | **Catastrophic**  |
| **Impact on the safety of staff, students or public (physical / psychological harm)**  | Minimal injury not requiring first aid or requiring no/minimal intervention or treatment. No time off work | Minor injury or illness, first aid treatment needed or requiring minor intervention.Requiring time off work for <3 days  | Moderate injury requiring professional intervention Requiring time off work for 4-14 days RIDDOR / MHRA / agency reportable incident  | Major injury leading to long-term incapacity/ disability (loss of limb)Requiring time off work for >14 days  | Incident leading to death Multiple permanent injuries or irreversible health effects |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Likelihood score**  | **1**  | **2**  | **3**  | **4**  | **5**  |
| **Frequency** | **Rare**  | **Unlikely**  | **Possible**  | **Likely**  | **Almost certain**  |
| **Broad descriptor**  | This will probably never happen/occur | Do not expect it to happen/occur but it is possible it may do so | Might happen or occur occasionally | Will probably happen/occur but it is not a persisting issue | Will undoubtedly happen/occur, possibly frequently |
| **Time-framed descriptor** | Not expected to occurfor years | Expected to occurat least annually | Expected to occur atleast monthly | Expected to occur at least weekly | Expected to occur at least daily |
| **Probability** Will it happen or not? | <0.1 per cent | 0.1–1 per cent | 1.1–10 per cent | 11–50 per cent | >50 per cent |

The overall ***level of risk*** is then calculated by multiplying the two scores together.

**Risk Level = Consequence / Severity x Likelihood (C x L)**

|  |  |
| --- | --- |
|  | **Likelihood**  |
| **Likelihood score**  | **1**  | **2**  | **3**  | **4**  | **5**  |
|  | **Rare**  | **Unlikely**  | **Possible**  | **Likely**  | **Almost certain**  |
| **5 Catastrophic**  | 5  | 10  | 15  | 20  | 25  |
| **4 Major**  | 4  | 8  | 12  | 16  | 20  |
| **3 Moderate**  | 3  | 6  | 9  | 12  | 15  |
| **2 Minor**  | 2  | 4  | 6  | 8  | 10  |
| **1 Negligible**  | 1  | 2  | 3  | 4  | 5  |

The Initial Risk Rating is the level of risk before control measures have been applied or with current control measures in place.

The Residual Risk is the level of risk after further control measures are put in place.