



## General Visitor Risk Assessment Camera Obscura & World of Illusions, Edinburgh

|                       |   |                        |                           |
|-----------------------|---|------------------------|---------------------------|
| Subject of Assessment | Camera Obscura & World of Illusions, Edinburgh, public areas                                      |                        |                           |
| Task/Activity         | Managing the risk of accident or injury to visitors, employees, and contractors, in public areas. |                        |                           |
| Assessor              | Ross Boon (Technical Manager)<br>Tony Millar (Manager)  | Location of Assessment | Camera Obscura, Edinburgh |

| Risk Rating Matrix (RR)   | Likelihood (L)                          |                                     |                         |
|---|---|-------------------------------------|-------------------------|
| Consequence (C)   | Certain or near certain to occur (High) | Reasonably likely to occur (Medium) | Unlikely to occur (Low) |
| Fatality; major injury or illness causing long term disability (High) | HIGH (H)                                | HIGH (H)                            | MEDIUM (M)              |
| Injury or illness causing short term disability (Medium)              | HIGH (H)                                | MEDIUM (M)                          | LOW (L)                 |
| Other injury or illness (Low)   | MEDIUM (M)                              | LOW (L)                             | LOW (L)                 |

| Location        | Hazards<br>(Unsafe Condition)   | Who is at risk?                        | Controls in place   | L | C | RR | Adequately controlled? |
|-----------------|---|--|---|---|---|----|------------------------|
| ROOFTOP TERRACE | a) Falling<br>b) Fall from climbing<br>c) Slipping if icy<br>d) Tripping on uneven areas<br>e) Tripping on steps<br>f) Tripping on mats<br>g) Those below hit by anything dropped (including spit)<br>h) Low doorway to N.Terrace<br>i) Wasp stings | Visitors,<br>Employees,<br>Contractors | a) All areas railed with extra mesh where required<br>b) Handrails and warning signs<br>c) Salted first thing each day in cold weather<br>d) Uneven areas levelled out, warning signs<br>e) Stair edges highlighted, handrail, warning signs<br>f) Daily visual and weekly maintenance checks<br>g) CCTV<br>h) Hatching marks on upper edge of doorway<br>i) Traps in summer on rooftop terrace | L | M | L  | Yes                    |
| CAMERA CHAMBER  | a) Steps into room<br>b) Tripping in dark<br>c) Claustrophobia<br>d) Airborne infections<br>e) Fear of the dark<br>f) Banging head on rail  | Visitors,<br>Employees,<br>Contractors | a) Handrail<br>b) Lights off only once all are stationary, handrails, lit steps.<br>c) Door opened if anyone claustrophobic<br>d) Fan system runs between shows to fully exchange air<br>e) Door opened if anyone fearful<br>f) Warn visitors.  | L | M | L  | Yes                    |

| Location      | Hazards<br>(Unsafe Condition)  | Who is at risk?                        | Controls in place  | L | C | RR | Adequately controlled? |
|---------------|--|--|--|---|---|----|------------------------|
| MAGIC GALLERY | a) Electric Shock<br>b) Electrical spark (igniting hand gel)<br>c) Dark room<br>d) Magnetic induction  | Visitors,<br>Employees,<br>Contractors | a) Voltage controlled<br>Signage explaining static electricity risk for pacemakers, cochlear implants and wet hands (hand gel)<br>All exhibits PAT compliant<br>b) There is no hand gel dispenser at the entrance to the Electric Room<br>A sign to visitors to take care with exhibits if they have applied gel, and only touch electric exhibits with dry hands<br>c) Exits clearly marked<br>d) Warning signs posted for hearing aid and pacemaker users. gwe | M | M | M  | Yes                    |
| MIRROR MAZE   | a) Bumped heads<br>b) Glasses wearers<br>c) Trip hazard<br>d) Power failure<br>e) Broken mirror - cuts | Visitors,<br>Employees,<br>Contractors | a) Warning sign at entrance not to run<br>b) Light sequences kept bright to prevent disorientation<br>c) Glasses wearers urged to take additional care in warning materials on signage<br>d) Steps highlighted with integrated lighting<br>e) Emergency lights overhead, aircraft-style lighting illuminates exit route<br>f) Evacuation procedures in place<br>g) Map of layout available in cupboard<br>h) Mirrors all safety backed - laminated.              | M | M | M  | Yes                    |

| Location             | Hazards<br>(Unsafe Condition)  | Who is at risk?                  | Controls in place  | L | C | RR | Adequately controlled? |
|----------------------|--|----------------------------------|--|---|---|----|------------------------|
| VORTEX TUNNEL        | a) Motion sickness / disorientation<br>b) Trip hazard on steps<br>c) Possessions dropped in it<br>d) Moving parts<br>e) Bumping into mirror at end of tunnel<br>f) Small pets' paws passing through walkway grid | Visitors, Employees, Contractors | a) Warning sign at entrance. Handrails inside tunnel.<br>b) Handrails fitted both sides. Stair edges highlighted, with integrated lighting, handrail fitted<br>c) Emergency stop buttons fitted at entrance and exit to activate torque-vector emergency stop<br>d) All protected with barriers plus emergency stops as above<br>e) Safety tape on mirror to break illusion of distance<br>f) Warning on website with recommendation to carry small pets | M | M | M  | Yes                    |
| AMES ROOM            | Trip hazard on steps   | Visitors, Employees, Contractors | Steps highlighted and well lit   | L | M | L  | Yes                    |
| EXHIBITS WITH LIGHTS | Burning  | Visitors, Employees, Contractors | Only cool LED bulbs in exhibits  | L | M | L  | Yes                    |
| EXHIBIT AREAS        | a) Tripping over step stools<br>b) Bumping into exhibits   | Visitors, Employees, Contractors | a) Hi-visibility yellow and pink step stools in dark areas<br>b) Edges of exhibits in dark areas highlighted   | L | M | L  | Yes                    |
| FOYER                | a) Low, narrow doorway to cloakroom<br>b) Tripping on mats   | Visitors, Employees,             | a) Hazard tape on top edge of door<br>b) Daily visual and weekly maintenance checks  | L | M | L  | Yes                    |

| Location     | Hazards<br>(Unsafe Condition)   | Who is at risk?                        | Controls in place   | L | C | RR | Adequately controlled? |
|--------------|---|--|---|---|---|----|------------------------|
| STAIRS       | a) Slips, trips and falls<br>b) No lift – not suitable for wheelchairs or buggies<br>c) Handrail only on one side | Visitors,<br>Employees,<br>Contractors | a) Brightly lit white walls, stairs kept clear of obstructions<br>High contract handrails fitted on one side<br>b) Clear information on website and pre visit<br>c) Make visitors aware pre-visit and onsite. | L | M | L  | Yes                    |
| TOILETS      | a) Scalding<br>b) Disorientation from mirrors / optical floor   | Visitors,<br>Employees,<br>Contractors | a) Water temperature thermostatically controlled and tested. Warning signs posted.<br>b) Mirrors marked with stickers   | L | M | L  | Yes                    |
| OPEN WINDOWS | a) Falling out<br>b) Trapped fingers  | Visitors,<br>Employees,<br>Contractors | a) All accessible windows have locking safety catches<br>b) Windows opened at the bottom are on safety hooks  | L | M | L  | Yes                    |
| DOORS        | a) Trapped fingers in doors which open and close<br>b) Tripping on threshold strips                               | Visitors,<br>Employees,<br>Contractors | a) Covers installed on hinge side<br>b) Hi-viz strips installed   | L | M | L  | Yes                    |

| Location       | Hazards<br>(Unsafe Condition)   | Who is at risk?                        | Controls in place   | L | C | RR | Adequately controlled? |
|----------------|---|--|---|---|---|----|------------------------|
| WHOLE BUILDING | a) Fire<br>b) Other hazards not already covered<br>c) Power failure                                     | Visitors,<br>Employees,<br>Contractors | a) Fire risk assessment carried out March 2024 and reviewed annually.<br>Alarm system linked to Fire Brigade out of hours.<br>During opening times staff trained to alert Fire Brigade.<br>Smoke/heat detectors fitted in all public and non-public areas<br>Self-closing doors; 'Class O' protected stairwells<br>Staff fire practices monthly<br>33% of Electrical installation inspected and tested annually<br>b) Have necessary national and local Licenses to operate<br>Public Entertainment Licence<br>Third Party Public Liability Insurance<br>On-site first aid available by trained/qualified staff<br>c) Full or partial evacuation. Duty Manager to refer to power outage protocol. | L | H | M  | Yes                    |
| WHOLE BUILDING | Dogs and cats admitted<br>a) Tripping / trampling<br>b) Allergies<br>c) Bites / scratches<br>d) Fouling | Visitors,<br>Employees, Pets           | a) Pets kept on leads at all times<br>b) Reallocate time of visit for anyone who cannot be close to animals.<br>c) Pets kept on lead at all times.<br>d) Cleaning team and others trained in clearing bodily fluids safely.   | L | L | L  | Yes                    |

|                    |            |           |                    |              |          |
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| Date of Assessment | 18.04.2025 | Signature | <i>Tony Millar</i> | Review dates | 18.04.26 |
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