

## Risk Assessment Form

<b>Equipment / Activity / Area being assessed</b>	The Robot Show	<b>Risk Assessment No</b>	LE-44
<b>Location</b>	Theatre	<b>COSHH assessment</b>	
<b>Who is exposed?</b>	Members of staff and visitors		
<b>Date of assessment</b>	20.02.2025		
<b>Assessor's name and job title</b>	Rachael Bevan, Head of Learning and Inspiration		

**Risk = Likelihood of injury x Severity of injury    R = L x S    Low risk = 0 – 6    Medium risk = 7 – 12    High risk = 13 – 25**

		<b>S = Severity of injury</b>					
		<b>No injury or illness (0)</b>	<b>Minor injury or illness (1)</b>	<b>First aid injury or illness (2)</b>	<b>“3 day” injury or illness (3)</b>	<b>Major injury or illness (4)</b>	<b>Fatality, disabling injury, etc (5)</b>
<b>L = Likelihood of injury</b>	<b>Zero to very low (0)</b>	0 = Low	0 = Low	0 = Low	0 = Low	0 = Low	0 = Low
	<b>Very unlikely (1)</b>	0 = Low	1 = Low	2 = Low	3 = Low	4 = Low	5 = Low
	<b>Unlikely (2)</b>	0 = Low	2 = Low	4 = Low	6 = Low	8 = Medium	10 = Medium
	<b>Likely (3)</b>	0 = Low	3 = Low	6 = Low	9 = Medium	12 = Medium	15 = High
	<b>Very likely (4)</b>	0 = Low	4 = Low	8 = Medium	12 = Medium	16 = High	20 = High
	<b>Almost certain (5)</b>	0 = Low	5 = Low	10 = Medium	15 = High	20 = High	25 = High

	<b>Hazard</b>	<b>Control Measures already in place to control the risk</b>	<b>What additional Control Measures are required?</b>	<b>Risk rating (High, Medium, Low)</b>	<b>Completed/ Escalated to:</b>
1	Poor housekeeping and general untidiness  Slips, trips, and falls	Regular checks and quick tidy-ups of the space to be conducted daily by Enablers.  Any mess or damages that can't be tidied or repaired to be reported to the Facilities Manager and/or Technicians.  First aider on site at all times during museum opening hours.		L = 3 S = 1 R = 3	
2	Theatre stairs.  Slips, trips, and falls	Annual PUWER inspections for seating  The audience will be instructed to stay seated and children should not run around the theatre.  Lights shall be kept in presentation mode so that visibility is not impaired.  Volunteers will be given plenty of time to move from their seats to the stage floor and advised not to run.  No one is permitted to sit on the stairs so emergency routes are kept clear.  First aider on site at all times during museum opening hours.		L = 1 S = 2 R = 2	
3	Audience misbehaviour.  Risk of injury to students and staff.	Enabler will ask the audience to remain seated and to be careful that no child interrupts the show.  The Enabler will have the power to stop or even cancel the show if these conditions are not met.		L = 2 S = 2 R = 4	

4	<p>Hydraulic hand</p> <p>Cuts from moving parts</p> <p>Muscle strain from manipulating the controls</p> <p>Dropping on someone's foot</p>	<p>The hydraulic hand and arm are from child-friendly STEM kits so suitable for the intended audience.</p> <p>The hands and arm have been built by the Facilities team and will be maintained by them also.</p> <p>The width and length of the hand can be adjusted to ensure it fits well. The shortest length will be the default.</p> <p>Student volunteers of similar build will be selected to keep a sense of fair competition.</p> <p>Student volunteers will be encouraged to use their free hand to support the hydraulic hand.</p> <p>Enabler will help the student volunteers as needed.</p>		<p>L = 2 S = 2 R = 4</p>	
5	<p>Drone</p> <p>Risk of:</p> <ul style="list-style-type: none"> <li>• It falling on someone's head</li> <li>• It cutting skin if the blades are touched while it's flying</li> <li>• Hair being tangled in it</li> </ul>	<p>The drone should be checked for visible defects before use and any issues reported to Facilities and/or P&amp;L immediately.</p> <p>Only trained staff will be permitted to control the drone.</p> <p>The Enabler will fly the drone at low altitude only and not over the audience seating.</p> <p>The drone has built-in controlled descent programmes so will not fall from height.</p> <p>The drone should only be handled once it is on the ground and the blades are not in motion.</p> <p>The drone should be stored in its dedicated carry case when not in use.</p> <p>First aider on site at all times during museum opening hours.</p>		<p>L = 2 S = 3 R = 6</p>	

6	<p>Go2 Robot Dog</p> <p>Bumping into someone Trapped fingers or cuts from moving parts Manual handling injury due to weight</p>	<p>Only trained staff will be permitted to control the robot dog.</p> <p>The robot should be lifted by the intended handle on the top of the dog.</p> <p>The robot should be switched off before being handled.</p> <p>The robot should not be manually moved once the robot has been turned on and in operation.</p> <p>If the robot does an unintended action and/or falls over, the 'stand' control should be pressed first. If this still does not fix it, it should be powered down before handling.</p> <p>The robot dog should be checked for visible defects before use and any issues reported to Facilities and/or P&amp;L immediately.</p> <p>First aider on site at all times during museum opening hours.</p>		<p>L = 2 S = 3 R = 6</p>	
7	<p>Use of iPad</p> <p>Cuts and bruises if dropped</p> <p>Overheating</p>	<p>iPad will be charged in advance of use so no need for trailing cables.</p> <p>iPad will be in a child-friendly case with easy to hold handles.</p> <p>iPads are only needed to access the app for the robot dog. No other function will be permitted when in use.</p> <p>Enabler will closely supervise the student volunteer when handling the iPad and will remove from them if needed.</p>		<p>L = 1 S = 2 R = 2</p>	
8	<p>Use of electrical equipment</p> <p>Fire, electric shocks, ingestion</p>	<p>Batteries must be charged only with the original charger.</p> <p>The charging devices must be operated by a member of P&amp;L, Facilities, or VS.</p> <p>When batteries are not being charged, they should be stored in a safe place and never within the reach of children.</p> <p>Batteries should be charged in a place away from the public.</p> <p>Batteries and charging devices should be checked for visible defects before use and any issues reported to Facilities and/or P&amp;L immediately .</p>		<p>L = 1 S = 4 R = 4</p>	

9	<p>Use of robots.</p> <p>Theft or damage to equipment</p>	<p>Small robots will be stored inside the white cabinet in the theatre when not in use.</p> <p>Robot dog will be stored on its stand when not in use, and returned to the office overnight/when not in use. The robot dog should not be left unattended in the Theatre on non-school days.</p> <p>Enabler will not permit robots to be mishandled. Misbehaviour or mishandling will result in the show being stopped.</p>		<p>L = 3 S = 1 R = 3</p>	
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**Sign-off of risk assessment**

<b>Review by Line Manager (Name, job title and date)</b>	D Parsley facilities manager 19/11/25
<b>Next Review date</b>	19/11/26