

Establishment: **Techniquest Glyndwr - Science Discovery Centre (TQG)**

Assessment Date: **1 January 2010**

Environment: **Techniquest Glyndwr Exhibition areas, theatre, lunchroom, exhibits, demo area, toilets, car park.**

Assessment by: **Mandy Jones/Dave Kynes**

Hazards - List significant hazards that may result in serious harm or affect people in the party.  ◆ DENOTES EXHIBITS	H = High M= Medium L = Low  RISK	Who might be harmed? - List groups of people who are especially at risk from the hazards identified.	Is the risk adequately controlled? - List existing controls or note where information may be found, e.g. information, instruction training, systems or procedures.	What further actions are needed to control the risk? - List the risks that are not adequately controlled and propose actions that are needed to reduce or eliminate the risks.	Outcome H/M/L RISK
Fire	M	Staff and Visitors	All staff trained on Fire Evacuation procedure. A siren will sound in the event of a fire. Extinguishers are regularly serviced.	Ensure ALL staff know the locations of fire exits, extinguishers and fire assembly point.	L
Trip Hazards - In and around buildings.	M	Staff and Visitors	No running rule in Centre. High visibility marks on steps and ramps.	TQG staff to ensure visitors follow guidance on behaviour.	L
Stairs - Trip hazard.	M	Staff and Visitors	High visibility marks on steps and ramps.	TQG staff to ensure visitors follow guidance on behaviour.	L
Glass Panelled Doors - Collision and breakage.	M	Staff and Visitors	Wire re-inforced glass used to decrease risk of breakage.	TQG staff to ensure visitors follow guidance on behaviour.	L
Automatic Doors - risk of young children leaving un-noticed.	M	Visitors - young children	Doors can only be opened by pressing button on wall.	TQG staff to ensure visitors follow guidance on behaviour.	L
Theatre - Tiered seating, trip hazard.	M	Staff and Visitors	High visibility marks on steps and ramps.	Use of doors monitored by TQG staff.	L
Lunch Room - spillages, floors may become slippery.	M	Staff and Visitors	Signs requesting visitors to report any spillage to TQG staff	TQG staff to ensure visitors follow guidance on behaviour.	L
Toilets - Wet floors may become slippery.	M	Staff and Visitors	Signs requesting visitors to report any spillage to TQG staff	Regular monitoring of condition of toilets.	L
Electrical Supply - Risk of Electrical shock.	L	Staff and Visitors	All electrical exhibits are PAT tested annually and subject to frequent visual inspection. Monthly exhibit maintenance visits. Fixed electrical tests carried out every 5 years. (next due in 2010)	Electrical exhibits are kept clear of water.	L
Car Park. - Risk of serious injury, collision with vehicles.	M	Staff and Visitors	Schools groups are led by staff to and from coaches. Speed ramps around campus. Speed restrictions in place.	Regular monitoring of car park users.	L

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◆ DENOTES EXHIBITS					
Demo Area - Possible use of chemicals, naked flames.	L	Staff and Visitors	Ensuring presenter is an adequate distance from the audience. Individual risk assessments are available for each show.	TQG staff to ensure visitors follow guidance on behaviour.	L
Shows - Possible use of chemicals, naked flames.	L	Staff and Visitors	Ensuring presenter is an adequate distance from the audience. Individual risk assessments are available for each show.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Air Cannon - Risk of bruising, choking.	L	Staff and Visitors	Weight of components is minimised. Parts are sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Animate-It - Risk of choking.	L	Staff and Visitors	Loose components sized to pass choke test. Electrical components are cased within cabinet.	Regularly check exterior electrical cables.	L
◆ Arch Bridge - Risk of fall from bridge, splintering, trip hazard.	L	Visitors	Bridge alongside wall. Exhibit condition is monitored daily. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Balancing Balls - Risk of bruising.	L	Staff and Visitors	Weight of component is minimised.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Balancing Broomsticks - Risk of bruising, falling.	L	Staff and Visitors	Base weighted for extra stability. Broomsticks have rounded ends.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Beat Your Heart - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Fluid contained within exhibit.	Regularly check exterior electrical cables.	L
◆ Bernouli Blower - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Blacker than Black - Risk of crush, pinch.	L	Staff and Visitors	Lightweight lid.	N/A	L

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◆ DENOTES EXHIBITS					
◆ Body Builder - Risk of bruising, tripping.	L	Staff and Visitors	Parts are sized to pass choke test. Visitors encouraged to keep parts off the floor.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Bubble Projector - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Bucket Radio - Risk of electrical shock, bruising.	L	Staff and Visitors	Electrical equipment cased within cabinet. Loose parts are lightweight. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Chromosomes - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Colour Takeaway - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Corner Mirror - Risk of bruising, choking.	L	Visitors	Parts are sized to pass choke test. Toughened glass mirror.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Crazy Crane - Risk of bruising.	L	Staff and Visitors	Parts are sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Design-a-Tree - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Differential - Risk of crush, pinch.	L	Staff and Visitors	Design allows pinch areas to be minimised.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Flow Tank - Risk of electrical shock, bruising. Chemical contact.	L	Staff and Visitors	Electrical equipment cased within cabinet. Rheoscopic fluid sealed within cabinet. Parts are sized to pass choke test. Monthly maintenance check.	Regularly check exterior electrical cables.	L

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◆ DENOTES EXHIBITS					
◆ Garden Gate - Risk of bruising, pinching.	M	Staff and Visitors	Design allows pinch areas to be minimised.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Geochron - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Get Unknotted - Risk of strangulation.	L	Staff and Visitors	Visitors are discouraged from climbing on the exhibit. Velcro fastening incorporated into the strap.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Gravity Well - Risk of choking, bruising.	L	Staff and Visitors	Balls are sized to pass choke test. Lightweight balls.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ How Many Like Me? - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Hub Computers - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Hub Exhibits - Risk of electrical shock, bruising, choking.	L	Staff and Visitors	Daily check on condition of exhibits. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Human Battery - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ It All Adds Up - Risk of choking, bruising.	L	Staff and Visitors	Balls are sized to pass choke test. Balls are lightweight.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Keyhole Cross - Risk of bruising, splintering.	L	Staff and Visitors	Lightweight parts. Condition of wood checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	L

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◆ DENOTES EXHIBITS					
◆ Look into Infinity - Risk of electrical shock., bruising, crush.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Heavy base ensures stability.	Regularly check exterior electrical cables.	L
◆ Mirror Maze - Risk of personal injury - impact with mirror.	H	Staff and Visitors especially young children	TQG staff oversee use of maze. Bi-lingual signage at entry and exit points. Adequate lighting. Rounded corners on pillars. Use of perspex mirrors at key points.	TQG staff to ensure visitors follow guidance on behaviour. Close mirrors at times of high risk. ie excited children.	M
◆ Motion and Camouflage - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ On Your Marks - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Orbits - Risk of choking, bruising.	L	Staff and Visitors	Balls are sized to pass choke test. Balls are lightweight.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Packing Parcels - Risk of pinching, bruising, splintering.	M	Staff and Visitors	Lightweight components. Exhibit inspected daily.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Pangea Puzzle - Risk of choking, electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Pharaohs Pyramid - Risk of choking, bruising.	L	Staff and Visitors	Parts sized to pass choke test. Condition of parts checked daily. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Pig Pen Puzzle - Risk of pinching, bruising, splintering.	L	Staff and Visitors	Component weight is minimised. Rounded edges.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Pin Screen - Risk of scratches.	L	Staff and Visitors	Regular maintenance to check condition of base and pins.	TQG staff to ensure visitors follow guidance on behaviour.	L

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◆ DENOTES EXHIBITS					
◆ Plasma Sphere - Risk of electrical shock, static shock.	M	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Visitors discouraged from deliberate sparking.	Regularly check exterior electrical cables. TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Powerhouse - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Powers of Ten - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Pull Yourself Together - Risk of choking, bruising.	L	Staff and Visitors	Parts sized to pass choke test. Condition of parts checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	M
◆ Pyramid Piles - Risk of bruising, choking.	L	Staff and Visitors	Parts sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Pythagoras Puzzle - Risk of choking, bruising.	L	Staff and Visitors	Parts sized to pass choke test. Parts lightweight to prevent injury.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Reaction Timer - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Resonant Bowl - Risk of infection.	L	Staff and Visitors	Water changed at least once per day.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Roll Uphill - Risk of falling, bruising.	L	Staff and Visitors	Cone is lightweight and hollow. Visitors discouraged from climbing.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Rotts Pendulum - Trip hazard.	L	Staff and Visitors	Poles attached to floor, painted red for increased visibility.	TQG staff to ensure visitors follow guidance on behaviour.	L

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◆ DENOTES EXHIBITS	RISK			Outcome H/M/L RISK	
◆ See Stress - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Seeing is Deceiving.	L	Staff and Visitors	N/A	N/A	L
◆ Seismograph - Risk of electrical shock, tripping, falling.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables. TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Shadow Box - Risk of electrical shock, bruising.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour. Low-light area supervised.	L
◆ Sketching Symmetry - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Soft Soma Cube - Trip hazard.	L	Staff and Visitors	Puzzle blocks made of foam, lightweight and soft.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Stereo Image - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Talk Tracer - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ The Orb - Risk of pinching, falling.	L	Staff and Visitors	Design puts pinch parts out of reach. TQG staff discourage running around the exhibit.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Thermochromic - Risk of cuts.	L	Staff and Visitors	Toughened laminated glass or polycarbonate screens.	TQG staff to ensure visitors follow guidance on behaviour.	L

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◆ DENOTES EXHIBITS	RISK			Outcome H/M/L RISK	
◆ Through the Looking Glass - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Touring Exhibits	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ Towers of Brahma - Risk of choking, bruising.	L	Staff and Visitors	Loose components sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Translating T's - Risk of choking, bruising, pinching.	L	Staff and Visitors	Loose components sized to pass choke test. Parts are loosely confined in a trough. Lightweight parts.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Treasure Chest - Risk of pinching, splintering.	L	Staff and Visitors	Lid is air damped to avoid pinching fingers. Exhibit condition checked daily.	TQG staff to ensure visitors follow guidance on behaviour. Monthly maintenance check.	L
◆ Tri-Circles - Risk of choking, bruising.	L	Staff and Visitors	Loose components sized to pass choke test. Loose parts too light to cause injury.	TQG staff to ensure visitors follow guidance on behaviour.	L
◆ Weather Station - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
◆ WYSIWYG - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L