

**Risk Assessment /Risk control - The Observatory Science Centre Herstmonceux**

<b>Activity</b>	TOWER CONSTRUCTION CHALLENGE
<b>Area</b>	Telescope Dome C (Hewitt Camera)
<b>Who is at risk?</b>	Employees, public, volunteers, visitors

Compiled by (print)

Sandra Voss

(Sign)

Hazard Identified	Likelihood (L,M,H)	Severity (L,M,H)	Risk (L,M,H)	Workplace precaution(s)	Requirements for risk control systems	Review Required If:
<b>Floors</b> – Slips, trips and falls	L	M	M	Ensure that all floors are dry and not slippery before the challenge begins	Slippery floor safety signs when necessary Mop and dry any wet areas	
<b>Narrow Stairs to dome</b> - Slips, trips and falls Banging head on low ceiling Falling through stair barrier	L L L	M M H	M M M	Ensure that all floors are dry and not slippery before the challenge begins Ensure adequate lighting on the stairs. Extra safety barrier around existing stair barrier	SAFETY TALK PRIOR TO GOING INTO DOME FOR ACTIVITY Slippery floor safety signs when necessary Mop and dry any wet areas One way single file traffic up or down the stairs only <b>FIT EXTRA SAFETY BARRIER ON EXISTING STAIR BARRIER – SAFETY TALK</b>	Activity done elsewhere  When safety barrier is fitted
<b>Falling into Existing Telescopes</b> – cuts and bruises, bangs to head, smaller telescope falling (crush injury)	L L	L H	L M	Ensure floor is free from loose trip hazards Barrier around the smaller telescope to prevent access to it	SAFETY TALK ABOUT BEING AWARE OF SURROUNDINGS	Activity done elsewhere
<b>Building tower &amp; Foam blocks falling</b> - bruises	M	L	M		SAFETY TALK – NO STANDING ON ANYONE OR ANYTHING WHILE BUILDING Only use foam blocks The challenge will be stopped immediately if any actions carried out by participants are deemed unsafe by the supervisor.	
<b>Standing on chair to measure height of tower</b> – falling from a height	L	M	M	Make sure there are no loose objects on the floor	MEMBER OF STAFF ONLY TO STAND ON CHAIR Make sure the chair is not wobbly or uneven before standing on it,	
<b>Cuts from holding metal tape measure</b>	L	L	L		SAFETY TALK – ensure the person holding the tape is aware of the risk	

<b>Likelihood:</b> The chance of the hazard or event actually occurring during the life of the exhibit.
High (H): Could happen frequently Medium (M): Could happen occasionally Low (L): Could happen, but only rarely

<b>Severity:</b> The extent of the harm (injury or ill health) should the hazard occur.
High (H): Irreversible injury Medium (M): Reversible injury requiring a week to recover Low (L): Negligable injury requiring First Aid

<b>Risk Rating:</b> Once the likelihood & severity have been determined, the risk is calculated as follows:			
	<b>Likelihood</b>		
<b>Severity</b>	<b>H</b>	<b>M</b>	<b>L</b>
<b>H</b>	High	High	Medium
<b>M</b>	High	High	Medium
<b>L</b>	Medium	Medium	Low

## Risk Assessment

<b>Activity</b>	<b>TOWER CONSTRUCTION TEAM CHALLENGE</b>
<b>Area</b>	<b>TELESCOPE DOME C (Hewitt Camera)</b>

<b>Description of activity</b>
<p>The Tower Construction team challenge is a supervised group activity against the clock. The activity takes place in a telescope dome that houses one permanently fixed large historic telescope (The Hewitt Camera) and one 16-inch moveable modern telescope.</p> <p>Groups of children must be accompanied by own teacher / parent / helper and a member of Science Centre staff.</p> <p>The challenge commences with a safety talk before entering the dome. Any actions deemed unsafe by the supervisor will lead to the challenge being stopped. The activity will only recommence once the supervisor is happy that the activity can and will proceed safely.</p> <p>Students are given a limited amount of time to construct a tower using a specified number of large foam blocks of different shapes. At the end of the time allowed, the member of staff measures the height of the tower. The highest tower wins.</p>

<b>Risk assessment is a simple process that must be applied to show that all identified risks have been eliminated or minimised to an acceptable level.</b>
---

Any risk identified during a regular review of the activity for example, during its design development, any testing or prototyping, manufacture of parts, installation, operation, maintenance, should be recorded on the risk assessment form. All actions taken should be recorded to illustrate that this risk has been reduced to a minimum.
--