

**RISK ASSESSMENT**

**Event: Big Bang 2011 Stand EA 4**

**Assessor:** Jeremy King

<b>Event</b>	<b>ASSOCIATED HAZARDS / RISKS</b>	<b>APPROPRIATE CONTROL MEASURES</b>	<b>PROHIBITED TASK OR EQUIPMENT</b>	<b>ADDITIONAL CONTROLS</b>
1. <i>Set Up</i>	Lifting	Anything over 20kg to be carried on a trolley.	N/A	
2. <i>Housekeeping</i>	Rubbish and temporary storage of material may present a slip, trip and fall hazard.	Must practice good housekeeping especially with regard to walkways and fire exits i.e. clear unwanted boxes, paper, etc Any spare material to be kept under tables before use.	N/A	Ensure area is free from any unnecessary items before starting the event and ensure walkways are always clear.
3. Using a STIXX Machine	The STIXX Machine is made up of three rollers. Two are in a fixed position horizontally, nearly touching. The roll of newspaper which needs to be tightened is placed to sit between the two rollers. A third roller attached to a bar is then brought down to compress the roll of paper. All the rollers are then rotated by turning a handle. Due to the direction of the rollers, fingers are not drawn into the rollers except for directly underneath the two horizontal rollers; this position is protected by a bar.	The students are only allowed to use the STIXX machine individually. They have their left hand on the bar that controls the height of the middle roller and their right hand is on the handle that controls the turning of the rollers. Therefore they do not have a spare hand to go into the rollers	N/A	Explanations and clear warnings are given to students about safe usage and possible dangers
4. <i>Using a STIXX Machine</i>	Loose clothing or long hair could be caught between the rollers.	Students asked to tuck in loose clothing and long hair.	N/A	
5. STIXX Structure	Collapse/knocked over	Ensure good construction and monitor student behaviour.	N/A	

WORKSHOP	ASSOCIATED HAZARDS / RISKS	APPROPRIATE CONTROL MEASURES	PROHIBITED TASK OR EQUIPMENT	ADDITIONAL CONTROLS
6. STIXX Rods	Students hitting other students with them.	STIXX rods to be restricted to immediate area of activity.	N/A	
7. Side Cut Pliers & STIXX Cutters	Students cutting themselves or facilitators.	Students not to be given access to these tools.	N/A	Facilitators to be given appropriate training in their use.
<i>7. Electronic Control</i>	Battery – short circuit causes rise in temperature in conductive materials	Appropriate training must be given prior to usage. Avoid short circuiting batteries. Avoid touching bare wires/metal parts when attaching battery terminals.	N/A	
<i>8. Electronic Control</i>	Crocodile Clips – pinching skin	Appropriate training must be given prior to usage. Avoid putting fingers /skin near open clips	N/A	
<i>9. Electronic Control</i>	Rotating parts – trapping hair, loose clothing	Appropriate training must be given prior to usage. Ensure hair tied back or covered. All loose clothing covered.	N/A	
<i>10 Electronic Control.</i>	Moving models – tripping hazard	Models to be kept on tables or in marked area of testing.	N/A	

Signed.....Jeremy King.....

Date.....08/03/11.....

Company Jeremy King/Engineering in Schools

Stand EA 4