

## RECORD RISK ASSESSMENT – ROMAN SIEGE WEAPONS

Assessment undertaken by: Charlie Lupton

Date: November 2015

HAZARD	RATING (Note 1)		RISK (Note 2)			RISK CONTROL MEASURES (RCM) (Note 3)	Score after RCM		Date and inits
	O	H	Lo w	M edi u m	Hi gh		2	2	
	O x H = Total								
<b>1. Heavy pieces of wood falling on foot/leg.</b>	3	3		X		Children using wood over 2.5m long will not need to lift above about shoulder height, reducing risk. Clear instructions given to all children that any piece of wood longer than 1m MUST be carried by a minimum of two people. This is reinforced for all children during first session of the day and thereafter if required. Close supervision of children at all times when handling wood. When fitting above shoulder height, an adult holds timber too.	2	2	CL 11/ 15
	9						4		
<b>2. Fingers pinched in joints</b>	3	3		X		No joint that the children assemble requires force to assemble. Clear instruction given to all children about the danger of pinching fingers and the safe way to hold wood during assembly. Close supervision. High and tighter joints assembled by animateur.	2	2	CL 4/11
	9						4		
<b>3. Hammer damages fingers.</b>	3	2		X		Only light hammers used by children. Clear instruction given before assembly on correct use. Pegs do not need much force to hammer in place reducing likelihood of finger damage.	2	2	CL 11/ 15
	6						4		
<b>4. timbers dropping on head and upper body</b>	3	3		X		No child lifts timbers above about shoulder height without adult holding timber as well. All higher placements are positioned by animateur. All timbers secured to each other as required.	2	3	CL 4/11
	9						6		
<b>5. Trusses toppling prior to pegging.</b>	3	3		X		Until fixed, a child will be instructed to hold the post in question until safe. Podgers used as required. Clear instruction to children as the need arises. Supervised.	2	2	CL 4/11
	6						4		
<b>6. Fingers pinched by stone in road</b>	3	3		X		Clear instruction to all children about possible risk of pinching fingers. All children must wear protective gloves (supplied)	2	1	CL 4/11
	9						2		

**Note 1:** POTENTIAL risk (though this may not have occurred) equals Occurrence (O) x Harm (H) (see below). Approximately, totals equate to the following levels of risk: 1–14 = Low; 15–24 = Medium; 25–49 = High

**Note 2:** There should not be any high risks because action should already have been taken to reduce the risk to medium or low. If the risk is high, action should be short term or immediate.

**Note 3:** It is not always necessary to take mitigating action. If an explanation is required but there is insufficient space to explain the mitigation taken, use more than one box for the explanation.

HAZARD	RATING (Note 1)		RISK (Note 2)			RISK CONTROL MEASURES (RCM) (Note 3)	Score after RCM		Date and init
	O	H	Lo w	M edi u m	Hi gh				
	O x H = Total								
<b>7. back hurt by carrying more than one stone</b>	3	2	X			Children instructed to only carry one stone at a time.	2	2	CL 4/11
	6								
<b>8. Injury caused by stylus poking</b>	3	2	X			Clear instruction on safe use of stylus	2	2	CL 4/11
	6								
<b>9. Reaction to wax, modelling clay and/or plaster of paris</b>	2	4	X			Check on allergies and exclude any child at risk	1	1	CL 4/11
	8								
<b>10. Elastic bands hurting eyes</b>	3	2	X			Clear instructions on safe use	2	2	CL 4/11
	6								
<b>11. Fingers pinched when operating battering ram</b>	3	2	X			Children only allowed into battering ram in small numbers. Handles separated from suspension points. Clear instruction for use.	2	2	CL 11/ 15
	6								
<b>12. Children battered by battering ram.</b>	3	3	X			Children never allowed in front of ram when in operation Close supervision at all times. Ram has restraining strap to prevent large swing.	1	2	CL 11/ 15
	9								
<b>13. Child injured during firing catapults</b>	3	3	X			Children never allowed to 'cock' the catapults and never approach when primed. Children fire catapults using firing cord from a safe distance. Only soft projectiles used.	2	3	CL 4/11
	9								
<b>14. Child injured when moving catapult/battering ram</b>	3	3	X			Pulling rope available should it be required. Close adult supervision at all times.	2	3	CL 11/ 15
	9								
<b>15. Child injured during casting</b>	3	3	X			Children are kept at a safe distance. When cooling the solder, a safety screen is utilised. All hot items are cooled down before it is possible for children to touch them.	2	2	CL 9/14
	9								

**RISK POTENTIAL CALCULATION:**

<b>OCCURRENCE</b>	<b>Score</b>	<b>HARM</b>	<b>Score</b>
Improbable (probably close to zero)	1	Trivial	1
Possible (remote chance)	2	Minor	2
Occasional (has been known)	3	Lasting more than 3 days	3
Frequent (annual / bi-annual)	4	Major injury to 1 person	4
Regular (3 – 6 month occurrence)	5	Major injury to one or more people	5
Common (1 – 3 month occurrence)	6	Death of 1 person	6
Continuous (daily / weekly event)	7	Multiple deaths	7

**RISK RATING = OCCURRENCE x HARM**

x	1	2	3	4	5	6	7
1	1	2	3	4	5	6	7
2	2	4	6	8	10	12	14
3	3	6	9	12	15	18	21
4	4	8	12	16	20	24	28
5	5	10	15	20	25	30	35
6	6	12	18	24	30	36	42
7	7	14	21	28	35	42	49

Low Risk	1 - 14
Medium Risk	15 – 24
High Risk	25 - 49