

<b>Location:</b>	Leicester Outdoor Pursuits Centre	<b>Date of Assessment:</b>	April 2010	<b>Name of Assessor:</b>	Ed Sibson
<b>Activity:</b>	Abseiling, Climbing and High Ropes	<b>Assessment Reference Number:</b>	4.1	<b>Signature of Assessor:</b>	E Sibson

ITEM/ HAZARD	Possible outcome of Hazard	Likelihood L – M – H	Consequence L – M - H	Risk Rating	CONTROL MEASURES
Falling from height	Serious physical injury or death	L	H	5	<ul style="list-style-type: none"> <li>▪ All participants at height to wear the correct harness and helmet for the activity.</li> <li>▪ All participants at height to be belayed throughout their activity unless secured to a safety line at the top of the tower or connected into the Aerial Trekking, power fan or zip wire system.</li> <li>▪ Qualified LOPC Instructor to tie security knot in the 'dead rope' at a suitable point during the ascent stage or to belay for the activity.</li> <li>▪ Staff to warn participants against pulling down on their rope to aid their ascent.</li> <li>▪ Staff supervision and reinforcement throughout.</li> </ul>
Hitting head or danger from falling objects.	Severe head injuries or bodily damage	L	M	6	<ul style="list-style-type: none"> <li>▪ All participants and staff must wear helmets at all times when inside the wooden fenced high ropes area or anywhere under the zip wire.</li> <li>▪ All participants to ensure their pockets are empty.</li> <li>▪ All gear at height to be securely attached.</li> <li>▪ Staff supervision and reinforcement throughout.</li> </ul>
Structure Failure	Collapse of the structure or the failure of safety components Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>▪ Whole structure to be inspected prior to use by a qualified LOPC Instructor.</li> <li>▪ Quarterly checks to be completed by a qualified LOPC instructor.</li> <li>▪ Annual inspection by an approved ropes course engineer to be carried out.</li> <li>▪ If there is any suspicion regarding the structural integrity or there is observation of damage then an inspection by an approved ropes course engineer must happen before any further use.</li> </ul>
Equipment failure	Serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>▪ All equipment checked prior to use. Any equipment found to be damaged or suspect to be withdrawn from use until repaired or scrapped.</li> <li>▪ All equipment to be used in line with training and assessment.</li> <li>▪ All equipment to conform to relevant standards (UIAA or CE).</li> <li>▪ Regular checks, replacement (as per replacement schedule) and maintenance of equipment to be carried out. 6 monthly checks must be recorded.</li> <li>▪ All belay systems to include the ground anchors or bases of posts and belayer.</li> <li>▪ Fixed equipment to be checked and maintained as per manufacturer's recommendations.</li> </ul>
Ground anchors failing	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>▪ Anchors are rated and can be used as direct belays.</li> <li>▪ The anchors are to be used as part of a system which must also include a person belaying.</li> </ul>
Failure of belay system and operation.	Risk of serious injury or death as result of unsafe belaying	L	H	5	<ul style="list-style-type: none"> <li>▪ During lowering the Instructor must tail the rope..</li> <li>▪ Only recognised belay systems must be used.</li> <li>▪ Close supervision of novices.</li> </ul>
Ill-fitting equipment	Physical injury or death	L	H	5	<ul style="list-style-type: none"> <li>▪ All participants to have their personal protection equipment checked by staff prior to beginning the session.</li> </ul>

					<ul style="list-style-type: none"> <li>Staff vigilance to ensure that equipment remains correctly fitted throughout the session.</li> <li>When tying in, the loop on the figure of eight knot must be appropriate to the fit of the harness(es).</li> </ul>
Mis-use of equipment	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>All participants are shown how to use the equipment in a safe, controlled environment before being allowed on the course.</li> <li>Staff supervision and reinforcement throughout.</li> </ul>
Entrapment	Injury and distress	L	M	6	<ul style="list-style-type: none"> <li>Long hair to be tied up, jewellery to be removed.</li> <li>Participants made aware of hazard and instructors to monitor.</li> <li>Staff supervision and reinforcement throughout.</li> </ul>
Ladders	Injuries caused by falling of staff or ladder	L	M	6	<ul style="list-style-type: none"> <li>Ladders to be secured when in use.</li> <li>Ladders to be used in accordance with safe LOPC working practice guidelines.</li> </ul>
Medical emergency	Risk of serious illness, and danger to life in the event of emergency whilst on course	M	M	4	<ul style="list-style-type: none"> <li>All participants to complete medical screening form.</li> <li>People with heart conditions or using heart medication can not use course.</li> <li>People with asthma must show inhalers before activity.</li> <li>Participants to bring their own medications to the location with them.</li> <li>First aid kit to be readily available.</li> <li>Staff to carry a mobile phone or communications radio with them.</li> <li>Staff to be competent at emergency rescues.</li> </ul>
Unauthorised access and use of off ground sections of facility	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>All climbing ropes to be removed at the end of the day and all tracer lines to be secured out of reach.</li> <li>Climbing panels to be drawn up at the end of the day.</li> <li>Ladders removed to secure storage at the end of the day.</li> <li>Jacobs Ladder beams to be removed to secure storage at the end of the day.</li> <li>Inclined beam to be returned to its elevated position at the end of the day.</li> <li>Gates and doors to be locked when the high ropes course is not in use.</li> <li>Suitable signage on display warning about dangers.</li> </ul>
Fire	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>People to be evacuated from the Tower and assemble at Fire Assembly Point.</li> <li>Fire Service to be called immediately.</li> <li>Electricity supply to be turned off.</li> </ul>
Further risks	Severe physical injury or death	L	M	6	<ul style="list-style-type: none"> <li>All risks should be minimised by continual appraisal of participants condition, the environment and equipment through dynamic risk assessment by the staff members involved.</li> <li>Some risks remain due to the nature of the activity but every care must be taken to minimise these</li> </ul>
<b>Crate Stack</b>					
Hit by Crates	Falling crates could bounce into participants	M	L	8	<ul style="list-style-type: none"> <li>Belay points to be chosen well away from the area of collapse if possible.</li> <li>Instructors to influence design of tower to enable prevention and recognition of tower falling.</li> <li>Other participants to be kept at a safe distance from collapsing tower.</li> <li>Instructors to warn participants to move away if tower is about to collapse.</li> </ul>
<b>Inclined Beam</b>					
Power Fan	Physical injury	L	M	6	<ul style="list-style-type: none"> <li>If no Powerfan session is running the post nearest the tower door must be</li> </ul>

safety area post					removed. <ul style="list-style-type: none"> <li>If a Powerfan session is running an Instructor must manage the area.</li> </ul>
<b>Jacob's Ladder</b>					
Splinters from cables	Minor physical injury	H	L	7	<ul style="list-style-type: none"> <li>Staff to warn group during activity briefing.</li> </ul>
<b>Zip Wire</b>					
Entrapment	Physical injury	L	H	5	<ul style="list-style-type: none"> <li>All participants to be warned of the hazard of body parts coming close to the trolley.</li> <li>Participants advised to hold on to the rope.</li> </ul>
Collision	Physical injury	L	H	5	<ul style="list-style-type: none"> <li>Top Instructor to not release safety line until signalled to by the ground Instructor.</li> <li>Ground Instructor to only signal when all obstructions are clear.</li> </ul>
Falling from height	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>Instructor must ensure the Gri-Gri is tied off before removing the safety line.</li> <li>Instructors must ensure a good grip of the rope before the participant operates the Gri-Gri.</li> <li>Instructors to issue clear briefing and instructions before and during the activity.</li> </ul>
<b>Abseiling</b>					
Falling from height	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>Participants to be secured to an abseil rope and a safety rope belayed from the top. The safety rope must be attached before their safety line is removed.</li> <li>When abseiling through the hatch all participants must be clear of the hatch at all times until they are called forward by the Instructor for their turn.</li> </ul>
Entrapment	Injury and distress	L	M	6	<ul style="list-style-type: none"> <li>The abseil to be releasable to allow for lowering in the case of emergencies.</li> </ul>
Items e.g. carabiners dropped from top of tower		M	M	4	<ul style="list-style-type: none"> <li>Abseilers must wait in the designated waiting area when they are on the ground and they must be informed of how to react if the warning "Below" is shouted by the instructor.</li> <li>Staff supervision and reinforcement throughout.</li> </ul>
<b>Powerfan</b>					
Falling from height	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>Maximum weight of 16stone fully clothed.</li> <li>Instructors to explain to clients to land with both feet together.</li> </ul>
Collision	Risk of serious injury or death	L	M	6	<ul style="list-style-type: none"> <li>Ensure participants step clear of the take off platform.</li> <li>Instructor must visually check the area before allowing a participant to leave the platform.</li> <li>The drop zone area must be marked off to ensure that participants do not collide with people on the ground.</li> <li>Padding to be placed against front wall of the tower to reduce likelihood of damage to a participant's head if there is a collision.</li> </ul>
Equipment failure	Risk of serious injury or death	L	H	5	<ul style="list-style-type: none"> <li>Each month, a counter reading to be taken and registered on the Powerfan website.</li> </ul>