

## **High Ropes Risk Assessment**

Activity

- High Ropes Activity Session

What are the hazard (in addition to general RA)?

- Vandalism
- Slips, Trips and Falls
- Falls from height
- Items falling from height
- Adverse weather conditions
- Ladders slipping
- Slipping on foot wires
- Swinging into trees

Who is at risk?

- Staff, participants, and members of the public

What are the risks?	Existing Safety measure/control	Likelihood	Risk rating
Incorrect use of	- All staff trained in the safe use of		
ladders resulting	ladders.		
slipping & falls	- All ladders are suitable for the tasks.		
from height or	- Ladders will be secured to poles or trees		
ladders falling on	by tying the top rung of the ladder to		
people.	the pole or tree. The ladder must be		
P P -	footed by another person when the		
	instructors is tying the ladder to the		
	pole or tree.		
	<ul> <li>When accessing the element, the</li> </ul>		
	instructor must attach into a safety as		
	soon as possible.		
	<ul> <li>The ladders must be footed when</li> </ul>		
	participants use the ladder in addition		
	to being secured at the top of the ladder		
Cuts from wire	- Participants briefed not to touch the		
splinters in the	wire ropes.		
wire rope	<ul> <li>Wire ropes inspected thoroughly</li> </ul>		
	regularly, and damage reported		
Participants being	<ul> <li>Participants are briefed on how to safely</li> </ul>		
pulled off	use the elements at the start of the		
apparatus by	session.		
teammates/falling	<ul> <li>Where appropriate a "let go" on</li> </ul>		
off elements at	command is used when the team		
height resulting in	becomes unstable		
collisions	<ul> <li>Participants briefed to fend away from</li> </ul>		
	the apparatus.		
	- Helmets to be worn.		
	<ul> <li>The tightness of the rope is closely</li> </ul>		
	managed by the instructors. If the rope		
	is too tight it can pull people of.		
	However, a slack rope can also be		



	dangerous. Instructors are taught to	
	'feel' the rope as part of their training.	
Ropes entangling	- Elements are set up in a way where	
on activities	people fall.	
causing injury	away from each other	
when falling	<ul> <li>Good briefing highlighting the safe</li> </ul>	
	method of use for the elements is given	
Slipping from	<ul> <li>Correct traversing method explained</li> </ul>	
wires and beams	and coached (wires running widthways	
	across the sole of the foot, rather than	
	lengthways)	
	<ul> <li>Good technique from the belayers</li> </ul>	
	<ul> <li>Continual dynamic risk assessment from</li> </ul>	
	instructor assessing beams grip.	
Swinging back	<ul> <li>Participants asked to step off slowly,</li> </ul>	
into element(s)	where.	
when stepping off	possible after the maximum amount of	
the apparatus to	slack is	
be lowered	taken from the system by the belayer.	
	- Participants are asked to fend off the	
	element if	
	appropriate during their descent using	
	their hands and feet to make a more	
	comfortable lower off.	
	- If possible, on the catwalk, participants	
	are asked to sit down on the log and	
	slide off or climbing down the tree until their waist is level with the beam before	
	putting their weight on the rope	
	- If possible, on the multi-vine	
	participants are asked to climb down	
	the tree until their head is level with the	
	wire.	
	- The belayers are to make themselves	
	- stable and to remain stationary during	
	the decent as much as possible.	
	- On the Jacobs ladder and play pen, the	
	apparatus can be pulled away from the	
	participant by another participant to	
	make a clear and easy lower	
Crates from Crate	- Crates to be passed hand to hand or use	
stack hitting	the rope and hook to enable the team	
participants	climbing to lift the crates up.	
	<ul> <li>The "slot and lift" technique can be</li> </ul>	
	taught.	
	- The participants will be spotted by other	
	participants for the first section (until	
	spotting would be unproductive)	
Falling when close	<ul> <li>Instructor to ensure belay rope is kept</li> </ul>	
to the ground	as tight as possible without hindering	
	those taking part.	



-	Low stretch rope used on all elements
	except for the single and double trapeze
	and high all aboard.

 For Incline log - The participants will be spotted by other participants for the first section (until spotting would be unproductive)

Reviewed: April 2023 by Head of Outdoor Learning Engagement and Delivery

Approved by: Assistant Director of Outdoor Learning

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## **General Risk Assessment for Off Ground activities**

Activity: Climbing (Including Auto Belays), Abseiling, High Ropes (including tree climbing), Zip Wire, Tree Top Trail & Bouldering

## What are the hazards?

- Participants at height
- Uneven ground
- Unauthorised use, malicious damage, and vandalism
- Accessing and setting up, de-rigging
- Items falling from height on to participants / instructors.
- Equipment failure
- Adverse weather including lightning / high winds and storms.
- Course / element failure

Who is at risk? Staff, participants, and members of the public.

What are the risks?	Existing safety measures/controls	Likelihood (RAG)	Risk rating (RAG)
Physical injuries, fractures, or death from falls from height.	<ul> <li>All equipment is checked before use and regular inspections carried out by competent instructors.</li> <li>Equipment is monitored and replaced according to the manufacturer's recommendations.</li> <li>Any equipment that is questionable is immediately taken out of action, put into the quarantine area and has a do not use label attached.</li> <li>Off Ground activities are checked before use for malicious damage and vandalism/storm damage</li> <li>Regular session monitoring by senior staff to ensure the SOPs are being adhered to.</li> <li>Anyone within the activity area must be wearing a helmet except when they are under a shelter or in a clearly defined safe zone (see auto belay section for exception).</li> <li>Suitable fences and lockable gates around the perimeter compound or the activity is left at height so it cannot be accessed by members of the public.</li> <li>Signs warning against unauthorised access displayed.</li> <li>The equipment shed is locked and alarmed at the end of the day.</li> <li>All equipment is stored in the ropes shed at the</li> </ul>		



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	<ul> <li>end of each day.</li> <li>All instructors will have been trained, assessed, regularly monitored, and deemed competent to run sessions and will operate as per their training and SOP's.</li> <li>All activities staff are first aid trained.</li> <li>Only instructors can lower participants to the ground.</li> <li>If the instructor is not directly tailing for the duration of the climb, back up knots must be tied in the dead rope.</li> <li>Instructors should be aware of the continuous need to utilise C.L.A.P on all their sessions.</li> </ul>	
	<ul> <li>Whilst novice instructors are learning they require direct supervision from an experienced member of staff if they are accessing, setting systems up or running sessions.</li> </ul>	
Items falling from height causing impact injuries	<ul> <li>Anyone within the activity area must be wearing a helmet except when they are under a shelter, in a clearly defined safe zone or taking part in an auto belay session.</li> <li>Participants are asked to remove items from their pockets.</li> <li>Dead wooding is carried out on an annual basis in accordance with the tree reports or as</li> </ul>	
	necessary.  There are regular operational inspections carried out by trained and competent staff.  Instructors set up and sign the Pre use check document in the HR shed to say they have checked the activity and surrounding area is safe to use for the day.	
Adverse weather conditions causing injury / illness such as lightning causing electrocution, wind and rain	<ul> <li>Sessions are cancelled winds over 25mph (There is an anemometer available to check the wind strength located in the Activities office and a weather station on top of the main house)</li> <li>Sessions are stopped in lightning storms for 30 minutes after the last strike.</li> <li>Guests are recommended to wear appropriate clothing, carry water, and sun cream.</li> <li>There are shelters available for both rain and</li> </ul>	
causing hypothermia and very hot days causing hyperthermia.	sun.  If the weather conditions get too much for groups/individuals, the sessions can be cancelled/postponed.  Water is available free of charge from drinking taps around the grounds.  Instructors can stop a session if they feel the weather conditions are unsuitable and safety might be compromised.	



	- Instructors are trained to recognise signs of	
	hypothermia/hyperthermia and what actions to	
	take.	
Equipment	- Instructors undergo training and assessment in	
failure due to	off ground activities which covers correct fitting	
poor fitting,	of PPE.	
misuse, or	- Staff are monitored with observations and	
damage.	feedback is recorded and passed onto them.	
	<ul> <li>PPE is checked along with the elements as part</li> </ul>	
	of the daily pre use checks.	
	<ul> <li>All PPE is checked for correct fitting and size</li> </ul>	
	prior to leaving the kit up area. All PPE is	
	checked for correct fitting and size prior to	
	leaving the kit up area.	
	- A complete system check takes place prior to all	
	accents/descents.	
	- PPE is on a regular inspection regime in line with	
	LOLER by a competent person	
Entrapment of	- As part of the kit up process, participants are	
fingers, clothes,	advised to remove jewellery, tie long hair back	
or hair.	and tuck any loose clothing in.	
	- Participants are instructed to keep their hands	
	at least one fist away from the belay device.	
Unauthorised	- The climbing tower and HR compound are	
use of the	locked between sessions.	
activities	- Tree Top trail entry net is raised and secured.	
	- Signs warning against unauthorised access	
	displayed.	
	<ul> <li>Auto belays are retracted at the end of each day</li> </ul>	
Pressure sores	- Only to be conducted by instructors who are	
from continual	trained and assessed.	
harness use	- Equipment regularly checked (visual daily and a	
and / or	detailed regular inspection)	
exhaustion	- Minimum of two instructors present when	
from accessing.	accessing.	
	- There will always be an instructor that is rescue	
	trained working on site while high	
	ropes/accessing is taking place.	
	- Accessing will only be done in the full body	
	access harness.	
	- The Petzl podium seat is available for extra	
	comfort when inspecting wires	
Inversions	- On high activities where inversion is likely, a	
compromising	chest harness is used.	
the security of	- The chest harness is connected to the waist	
the harness	harness via the main belay rope. This is tied by	
	the instructor and checked prior to each ascent.	
	- All lowering off must be while participant is	
	upright.	



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Rope burns	- Petzl Rigs are used if participants are belaying.	
from belaying	- Only the instructor can lower someone down	
	from height.	
	<ul> <li>If rope is wet or belayer struggling to keep</li> </ul>	
	control of lower, then the rope can be	
	redirected through another karabiner to	
	increase the friction.	
Human error -	- Full co-operation from group leaders in group	
Participants	control and discipline	
	- Ongoing assessment of the group's physical and	
	mental ability during the session by instructors	
	and session content adapted if required	
Limited	- Advanced notification and high-level supervision	
understanding	(provided by the groups own staff) required for	
due to	all groups with substantial support needs.	
additional	- For less substantial support needs, the level of	
support needs	supervision should be agreed before the session	
	commences and monitored throughout.	
	- Option for groups to hire additional instructors	
	if deemed beneficial for lower ratio working.	
Human error	- All staff are trained and assessed in the proper	
by instructor –	use of PPE and site-specific processes.	
misuse of	- All staff monitored through formal observation	
equipment.	and walkabouts.	
	- Refresher training delivered annually and if	
	any new equipment/processes are introduced.	
	- Techniques are in place to reduce the risk of	
	instructor error such as slow controlled descents	
	only, no acrobatics such as inversion during	
	descent.	
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Reference to other manuals assessments: UK Youth Health and Safety policy

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