

Risk Assessment – Powerfan

Baseline	<input checked="" type="checkbox"/>	Site Specific		Vulnerable Person		Temporary		Version	2020.1.0	Date of issue:	20/01/2020
----------	-------------------------------------	---------------	--	-------------------	--	-----------	--	---------	----------	----------------	------------

Produced by:	Leigh Phillips	Reviewed by:	Leigh Phillips	Authorised by:	Steve Anderson	Date of next review:	20/01/2021
--------------	----------------	--------------	----------------	----------------	----------------	----------------------	------------

Operating notes:

- Powerfan should be understood to refer to activities within Kingswood whereby a participant descends to the floor using a Drop Zone Powerfan.
- This risk assessment does not cover Kingswood staff accessing the structure for routine inspection and maintenance. Please see the 'Work at Height inspections / maintenance' risk assessment.
- Structure and equipment must be managed as per the Kingswood Equipment Management Standards.
- Supervision Ratios: 1 Powerfan Leader plus 1 Powerfan Assistant to 2 active participants with 1 additional accompanying adult supervising group.
- **Participants** – The Powerfan device should not be used by anyone (including all staff, participants and accompanying adults) that is/has:
 - Weight over 120kg / 18.5 Stone
 - Weight under 20kg / 3.5 Stone
 - Pregnant (unless doctor's advice has been sought)
 - Any type of heart condition or heart-related issues (unless doctor's advice has been sought)
 - Any type of spinal injury or weak spine condition (unless doctor's advice has been sought)

Qualifications/ Competence:

- The Nominated Chief Instructor must be onsite during all roped activity operations; they must hold a relevant NGB award.
- Powerfan Leaders must be in-house assessed by an MIA or ERCA trainer; or have a relevant NGB qualification plus approval from the internal advisor; or be a Kingswood Ropes Trainer as approved by the internal technical advisor
- All Powerfan Leaders must have their first session observed and then frequently as per the coaching sessions.
- All Powerfan Leaders are required to maintain their skill level and must attend a rescue refresh every 3 months and after lengthy periods of shut down.
- Powerfan Assistants must be qualified in Ground Belay activities plus have completed the in-house familiarisation of the Powerfan activity.
- All Powerfan Assistants are required to maintain their skill level and must attend a refresh every 12 months and after lengthy periods of shut down

Risk – Benefit Statement:

There is a low 'real' risk of injury during Power Fan but a high 'perceived' risk allowing a greater basis for learning.

Hazard Description and activities giving rise to risk	Who may be harmed	Control Measures	Risk Rating
Adverse weather – Lightning or High Winds	All	<ul style="list-style-type: none"> • All staff must follow the ROSPA 30/30 rule for lightning. • If lightning occurs suddenly then the group should vacate the area immediately. • If the facility is within a woodland environment then the activity should be cancelled during high winds to prevent falling branches becoming a risk. 	Low
Unauthorised access	All	<ul style="list-style-type: none"> • Access points to roped activity structures must be secured against casual or unauthorised access when the equipment is not in use. • All groups are briefed to stay off all activity equipment unless supervised by a Kingswood Activity Leader. 	Low
Head injuries	All	<ul style="list-style-type: none"> • Helmets are not to be worn on this activity as there is a very low chance of anything falling from height onto the participant 	Low
Unsecure attachment to safety rope or Incorrectly fitted harness	All	<ul style="list-style-type: none"> • Sit harnesses are to be correctly fitted (waist loop tight above the hips and legs loops tight) • A chest harness must be worn when: <ul style="list-style-type: none"> ○ The participant does not have defined hips ○ The participant has a fairly prominent upper body/stomach and no hip definition (disability or over-weight) ○ When large clothing has been tucked into the harness preventing defined hips to be seen ○ There is a medical reason that suggests the participant may faint/collapse ○ Very top heavy, so inversion is likely • The use of a DMM Bridge is the only approved method of connecting a chest and sit harness using a captive karabiner. • The safety rope must be attached to the Bridge Sling or directly to sit harness (When a chest harness is not being worn) using a captive karabiner. • Check the active participant's PPE and roped attachment twice: <ul style="list-style-type: none"> ○ When attaching the safety drope - This check should be visual and verbal for all group members to observe. ○ Immediately prior to climbing - The belaying Instructor must complete a final tactile inspection prior to any participant leaving the ground 	Low

Hazard Description and activities giving rise to risk	Who may be harmed	Control Measures	Risk Rating
Impact with ground or other obstacle	Participants	<ul style="list-style-type: none"> • Brief the participant to climb slowly and keep the rope snug to themselves whilst they ascend. • Activity Leader must monitor the ascent and ensure the participant climbs slowly enough for the fan to recoil. • Activity Leader must ensure the landing zone is free from any obstacles and other users. 	Low
Falls from height	All	<ul style="list-style-type: none"> • Anyone operating at height must be suitably attached to a safety line. 	Low
Entrapment	All	<ul style="list-style-type: none"> • Brief and check the participant has tucked away and secured any loose or baggy clothing. • Brief and check the participant has removed any large or dangly jewelry. • Brief and check the participant has tied back / secured long hair • The Activity Leader must check themselves for the above as well 	Low
Panic & refusal / inability descend	All	<ul style="list-style-type: none"> • All Activity Leader must be trained and assessed to carry out a “passive procedure” and lower participants to the ground where needed. 	Low