

Risk Assessment – Powerfan

Baseline	<input checked="" type="checkbox"/>	Site Specific	<input type="checkbox"/>	Vulnerable Person	<input type="checkbox"/>	Temporary	<input type="checkbox"/>
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Operating notes:

- Power fan should be understood to refer to activities within Kingswood whereby a participant descends to the floor using a Drop Zone Power fan.
- 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.
- 2 Activity Leaders to 2 active participants with 1 additional adult supervising group (max size 15).
- **Participants** – The Powerfan device should not be used by anyone 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:

- Activity 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
- The Nominated Chief Instructor must be onsite during all roped activity operations; they must hold a relevant NGB award.
- All Activity Leaders must have their first session observed and then frequently as per the observation standards.
- All Activity Leaders are required to maintain their skill level and must attend a rescue refresh every 3 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

Hazard Description and activities giving rise to risk	Who may be harmed	Control Measures	Risk Rating
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
Incorrectly fitted helmet	All	<ul style="list-style-type: none"> • Helmets must be worn correctly as per the manufacturers guidelines by all persons within the designated area • Where an activity specifies that a helmet must be worn, every effort must be made to get participants to wear one. However, this may present difficulties for those who wear a turban or other similar head covering. Participants in this activity who are wearing a full 'pagri' turban are exempt from wearing a helmet, as the turban should control sufficiently the risks that the helmet would otherwise guard against. This exemption does not apply to participants who are wearing a 'patka' or lighter cloth head covering, with or without a top-knot. These individuals must wear a helmet, and provision should be made for a private area where these participants can remove or adjust their patka in order to fit the helmet. • Where a turban is worn in place of a helmet, special care must be taken to ensure that there is no risk of any loose cloth getting entangled in equipment or apparatus. 	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 and DMM Ultra O Lock karabiners is the only approved method of connecting a chest and sit harness. • The participant must have their PPE and attachment points checked twice by the Activity Leader a) when fitting and b) by the ground Activity Leader before the climber is allowed to leave the ground. This final check should be visual and verbal for all group members to observe. 	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 jewellery. • 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