

Assessment of:	High Ropes Course		
Location:	Mount Cook	Date of assessment:	February 2021
Completed by:	Bernard Müller	Expiry Date:	February 2022
Ratio:	1:14 Max and Min 1 Group Leader	Staff Competencies	ERCA, Ta sign-off, SPA or Higher. Must have suitable group management experience.
Activities Covered:	Leap of Faith, Gladiator, Jacob's Ladder, Crate Stack, High All Aboard	Specific Emergency Procedure:	Should an incident occur in which immediate threat to life or limb occurs: Lower the casualty to the ground Give first aid Radio for assistance. If no radio reply, send two runners to reception.

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Lift heavy loads (during set up)	To Staff: Risk of muscle injuries, strains and bruises.	<ul style="list-style-type: none"> ▪ Only carried out by staff trained in setup ▪ Use wheelbarrow for moving gear heavy loads long distances ▪ Ask for assistance if required. ▪ Use T.I.L.E. methodology when undertaking manual handling tasks. 	Y Y Y Y	Staff undertake manual handling training.	Centre Mgr.	LOW

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Unauthorised access to course	Unsupervised persons: falling from elements leading to spinal/head injuries, bruising, cuts, abrasions and or death	<ul style="list-style-type: none"> Restrict access to Tower by locking use of ladder using, fencing, chains and warning signs. Remove ropes after session and do not leave unattended for long periods by staff Promote CCTV coverage on public access points and on the tower itself Monitor tower with CCTV. Remove lower elements of tower to make access to the obstacle difficult. 	Y Y Y Y Y	All instructors to remove lower elements of tower after use and lock away. Ensure ropes not left up for long periods whilst not in use	Activity Mgr.	LOW
Course structure vandalised or damaged – severe storms/winds/ earthquake	To Staff and Participants: Course unsafe for use, leading to cuts, head/spinal injuries from falling or falling elements. Potentially death	<ul style="list-style-type: none"> Course inaugural inspection by ERCA Type A to EN 15567 Part 1. Annual inspection by an independent inspector. Before all sessions, instructors to check that all aspects of structure/ elements and components, are in working order. CCTV in place to deter vandalism and signage in place gates locked to premises and access prohibited by fencing where necessary. 	Y Y Y Y Y	Pre-Use Inspection Logs Completed and logged by instructors Annual inspections logged and filed.	Activity Mgr. Centre Mgr.	LOW
Medical emergency	To Staff, Volunteers, Contractors and Participants: Prolonged time without medical attention could lead to long-term illness, bleeding out, death.	<ul style="list-style-type: none"> All staff to be trained in basic first aid. Portable first aid kit available on session Participants to bring their own medications to the session and carry them throughout if necessary Staff to have walkie- talkie on session to raise the alarm or send two runners if needed to centre to raise alarm. 	Y Y Y Y	First Aid training to be given to all staff – outdoor FA if possible.	Centre Mgr.	LOW

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Incorrectly fitted PPE	To Staff, Volunteers, Participants: Falls, abrasions, bruising, head/spinal injuries and or death.	<ul style="list-style-type: none"> ▪ Safety instructions given from staff at start. ▪ Harnesses and helmets to be fitted and adorned before leaving the main room. ▪ Harnesses must be checked by staff before session begins and before each go on element of high ropes. ▪ Constant vigilance by trained leaders. 	Y Y Y Y	Instructors given training on how to fit correct PPE	Activity Mgr.	LOW
Faulty Equipment	To Staff, Volunteers, Participants: risk of falling from height, impact injuries, head/spinal injuries and or death	<ul style="list-style-type: none"> ▪ Equipment checked by instructors prior to use. ▪ Scheduled monitoring of equipment to be logged on Papertrail and condemn any faulty equipment. 	Y Y	Logging and monitoring of equipment – logged and tracked on Papertrail	Activity Mgr.	LOW
Falling from height – i.e. due to incorrectly attached equipment	To Staff, Volunteers, Contractors and Participants: risk of falling from height, impact injuries, head/spinal injuries and or death	<ul style="list-style-type: none"> ▪ Equipment checked by instructors prior to use. ▪ Scheduled monitoring of equipment to be logged on Papertrail and condemn any faulty equipment. ▪ Instructors trained on HR delivery and signed off by external TA on competency. ▪ Staff monitored by senior instructor and signed off as competent before solo session. 	Y Y Y Y	Log all equipment checks on papertrail Log all staff training and TA sign off's on Cinolla	Activity Mgr.	LOW
Inadequate supervision.	To Participants: Risk of falling from height, impact injuries, head/spinal	<ul style="list-style-type: none"> ▪ Ratio of leaders to participants controlled to effectively manage the group. ▪ Safety brief given to all participants taking part in the activity. 	Y Y Y	Booking co-ordinators to inform group leaders of	Booking Co-ordinators	LOW

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	injuries and or death	<ul style="list-style-type: none"> Teachers/ adults to help supervise the group. 		supervision requirements/ratio		
Removing helmet whilst on session	To Participants, Volunteers, contractors and Staff: Risk of impact head injuries and potentially death if helmets removed.	<ul style="list-style-type: none"> - safety brief outlines not to remove helmets whilst on the bark chippings and to go under the shelter if need to adjust helmet. - instructors to check helmets put back on correctly when return to activity. - regular refreshment breaks during session to schedule in helmet adjustment times. 	Y Y Y	Instructors trained in PPE adjustment.	Activity Mgr.	LOW
Adverse weather conditions – Cold, wet, windy, Hot	To Participants, Volunteers, contractors and Staff: risk of heat stroke, sun burn, hyperthermia, frostbite.	<ul style="list-style-type: none"> - Instructors to monitor weather conditions before and during session. - kit list to be sent in advance of arrival with suitable clothing list. - spare clothing in centre for those under-prepared participants. - Sun cream to be available for everyone in the centre. - water available whilst on session in hot conditions. - shelter near HR tower to provide refuge from heat and wind/cold conditions. - do not run HR in extremely windy, cold or hot conditions. 	Y Y Y Y Y Y	Monitor weather conditions and ensure participants are given safety brief on conditions prior to activity session.	Instructors	LOW
Hands slipping whilst holding metal wire	To All: Wire burns, cuts, lacerations, splinters	<ul style="list-style-type: none"> - safety brief given to all participants of danger of holding the wire. - Instructors vigilant during the activity session 	Y Y	Instructors to deliver safety brief	Activity Mgr.	LOW

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Rope slips through belay device	To Participants, Volunteers, contractors and Staff: Risk of falling from height, impact injuries, head/spinal injuries, death	<ul style="list-style-type: none"> - only trained staff lower participants down on belay device - instructors trained in house by senior instructors and signed off by external TA. - ropes checked as part of the PPE checks to ensure no deformations or fraying which could compromise the integrity of the rope. - Belay device checked before session and logged in PPE checks for wear and tear. 	Y Y Y Y	Staff training logged on Cinolla. PPE checks logged on papertrail	Activity Mgr.	LOW
Incorrect set-up of knots on rope	To Participants, Volunteers, contractors and Staff: Risk of knot coming undone and climber falling. Impact injuries, head/spinal injuries, cuts, bruising, rope burns death.	<ul style="list-style-type: none"> - only trained staff to set up ropes on course and tie knots. - external TA to sign off staff competency - knots to be checked before activity begins. 	Y Y Y	Staff training logged on Cinolla	Activity Mgr.	LOW
Heavy participants on leap of faith	To Staff: Risk of not enough ballast and being lifted off floor. Potentially participant may fall rapidly and get injured.	<ul style="list-style-type: none"> - participants weighed to ensure not too heavy for rope strength - sand bags or human anchors used to add extra ballast. - instructors trained to belay heavier participants than themselves safely. 	Y Y Y	Staff training logged on Cinolla	Activity Mgr.	LOW

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Climbing on the wrong side of the element	To Participants: Risk of getting tangled in ropes, unable to belay down to ground.	- safety brief outlines the importance of not going on wrong side of apparatus. - instructors must remain vigilant during the session.	Y Y	Instructors trained to delivery safety brief.	Activity Mgr.	LOW
Splinters	To All: Risk of getting splinters whilst climbing on apparatus. Infections possible	- hazard highlighted in safety brief to participants. - element checked for excessive splitting of the wood and recorded.	Y Y	Reports logged on Papertrail.	Activity Mgr.	LOW
Crates falling on-top of participants	To All: Risk of head injuries and injuries to limbs. Cuts and abrasions, eye injuries.	- Group supervised at all times by instructor and group leader - strong foundation of 4 crates to be present at bottom of tower. - 'builders' to be given briefing of potential hazard and to Clear platform as per instructors command, especially when tower reaches unstable heights. - Helmets must be worn during activity and checked to be fitted correctly at start - participants instructed not to throw crates.	Y Y Y Y	Instructors trained on safe delivery of activity.	Activity Mgr.	LOW
Slips, trips and falls.	To All: Risk if slipping on wooden platform and on railway line on route. Impact injuries, broken limbs and bruising.	- Group given safety brief and informed not to run to activity and stay off railway line. - Wooden platform to be jet washed and treated for mould build up annually. - When descending onto platform ensure it is clear of crates to avoid ankle injuries. - anchor points covered when not in use to avoid trip hazard.	Y Y Y Y	Instructors to give safety brief to all participants. Training given to all instructors on safety briefing	Activity Mgr.	LOW

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Crossing of ropes	To Participants and instructors: Risk of ropes becoming damaged due to 'rope burn' and thus breaks and climber falling. Risk of spinning upon decent. Leading to impact injuries, broken limbs and head injuries/death.	- Instructors to point out hazard, especially on Crate stack and High All Aboard. - Instructors to be vigilant to hazard and take necessary steps to mitigate dangers.	Y Y	Training for Instructors. To be logged on Cinolla	Activity Mgr.	LOW
Hard edge of ledge on leap of faith.	To All: risk of swinging back and hitting body against hard edge of ledge- leading to bruising, head injuries and spinal damage.	- Instructors to point out hazard to participants and to give instructions on how to limit chances of impact. - weight limit on element to reduce chances of rapid swing back. - only experienced instructors to run leap of faith element. - additional padding on ledge to reduce chances of impact injuries.	Y Y Y Y	Training logged on Cinolla Padding to be inspected in line with industry standards and logged on papertrail.	Activity Mgr.	LOW
Sharp edges / broken or damaged plastic crates	To All: Risk of cuts, infections and crate collapse due to failed structural integrity – leading to fall injuries, head/spinal	- Crates checked for structural damage before and after session and removed from stock if found to be damaged. - participants instructed to not kick tower down on purpose which could damage crates. - crates stored in shelter to protect from UV damage and other weathering.	Y Y Y	Inspection to be carried out by instructors prior to session and recorded/logged on Papertrail.	Activity Mgr.	LOW

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	damage, bruising and death.					
Trapped fingers in belay device	To All: Risk of cuts and crush injuries to fingers.	- instructors to give instruction on how to belay safely - instructors to ensure participants do not touch/use the belay device and keep fingers away from it whilst belaying.	Y Y	Training for instructors to be logged on Cinolla	Activity Mgr.	LOW
Falling to the ground in the first 6 feet.	To All: Minor and Major Injury, especially to ankles and lower back	- Climbers should climb when the belayer is ready. - instructors and belayers to be very attentive and directive. Where difficulties are seen, work with the belayer. - Ensure belayers keep rope tight in first 6 feet	Y Y Y	Training for Instructors logged on Cinolla	Activity Mgr.	LOW
Entanglement with the upper wires	To All: Risk of needing rescuing, blood circulation issues in harness for prolonged time periods. Cuts, bruising and abrasions. Shock symptoms.	- Instructors give clear safety brief at start of activity. - Ensure that all climbers know that they must not climb onto the last wooden spar	Y Y	Training for Instructors logged on Cinolla	Activity Mgr.	LOW
Collision with bars (especially to the face) when being lowered	To All: Risk of bruising, cuts and spinal/head injuries.	- Instructors only to lower participants. - Lower people slowly. Advise people being lowered of potential risks and ask them to fend off the bars with feet and hands	Y Y	Training for Instructors logged on Cinolla	Activity Mgr.	LOW

Risk Assessment checked by H&S or Line Manager

Name: Steve Turner CEO

Date: Feb 2021