

# Braeside Education Centre - Activity Risk Assessment



<b>Assessment of:</b>		Climbing Tower inc. Roped Climbing, Abseil, TruBlue's, Alf's & Zip Wire		<b>Venue:</b>	Braeside education centre – Climbing Tower	
<b>Assessor:</b>		Josh Simons		<b>Date:</b>	Jan 2024	<b>Review Date:</b> Jan 2025
❖ General use and top of wall						
<b>ID</b>	<b>Hazards Identified</b> I.e.: what can cause harm?	<b>Persons at Risk</b> I.e.: who could be harmed by the hazard?	<b>Current Risk Factor (High, medium, or low)</b> I.e.: determine the level of risk	<b>Actions to be Taken to Minimize each Risk</b> I.e.: what action can you take to lower the level of risk		<b>New Risk Factor (High, medium, or low)</b> I.e.: risk factor after action taken to minimize the risk
1	Falling (max height 10 m)	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>Participants only to be clipped/unclipped to ascending devices by a trained person. This includes a trained-up member of the participant group (18+ only))</li> <li>Participant to be attached to abseil/zip/QJ only by trained instructor.</li> <li>Participants to always be connected by at least one cow's tail when on platform, only released by qualified instructor when fully connected to next equipment set.</li> <li>Instructors working at height must have two fixed attachments unless undertaking an activity that a participant could do. One must be above if possible.</li> <li>All Participants will be briefed not to touch or use metalwork.</li> <li>Qualified instructor to always be present, except in exceptional circumstance as approved by head of centre</li> </ul>		Low

## Braeside Education Centre - Activity Risk Assessment



Braeside Education  
Centre

2	Falling items (equipment)	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> <li>Anyone entering the fenced climbing area.</li> </ul>	Medium	<ul style="list-style-type: none"> <li>All persons at ground level in vicinity of tower to wear helmets</li> <li>No helmets to be worn when using Auto belaying/lowering by climbers whilst on the climbing structure. Keep people away from area underneath and no loose items on person, empty pockets before climbing.</li> </ul>	Low
3	Jewellery, long hair, and clothing catching or snagging on equipment.	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Ensure hair is tied back and jewellery is removed.</li> <li>Any loose baggy clothing to be removed or tucked in (hood's)</li> </ul>	Low
4	Structure or kit failure	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> <li>Anyone in proximity</li> </ul>	High	<ul style="list-style-type: none"> <li>Structure checked by course builder on a yearly basis, by competent person on at least a 2 monthly basis and a visual check on the day of uses.</li> <li>All Equipment to have a visual check before session</li> <li>All Equipment to be check on a 2 monthly basis.</li> <li>Refer to quick jump, Trublue, and ALF operating procedures for safe use of the device and all operating procedures concerning the use of the tower.</li> <li>Trublue devices have inspection prior to use and 6-monthly inspection, also have annual service by Entre Prises</li> <li>ALF systems check yearly by external company</li> </ul>	Low
5	Slips, Trips and Falls	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> <li>Anyone entering climbing area</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Verbal briefing about uneven surface, slippery decking on top of wall.</li> <li>Top of wall wash and keep clean of debris on regular basis.</li> <li>Verbal warning of ground anchors.</li> <li>Ground anchors Brightly taped.</li> </ul>	Low

## Braeside Education Centre - Activity Risk Assessment



Braeside Education  
Centre

6	Injury of qualified instructor – loss of instructor	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>Two members of Braeside staff to be on site when climbing session are being run.</li> </ul>	Medium
7	Incorrectly fitted kit, or participants fiddling with kit.	<ul style="list-style-type: none"> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>Harness it be checked at time of fitting by a trained person</li> <li>Harness checked before client leaves ground level.</li> <li>Participants warn to not fiddling or alter their own kit</li> <li>Briefed to speak to instructor if feels uncomfortable or needs to remover adjusted or re fitted (toilets)</li> </ul>	Low
8	Medical incident on top of tower	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>All Braeside instruction staff first aid trained.</li> <li>Suitable qualified member of staff to be on site to deal with any rescues or managed lower offs from climbing wall.</li> </ul>	Low
<b>❖ Roped Climbing.</b>					
9	Falling	<ul style="list-style-type: none"> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>See ID 1</li> <li>Set up and karabiners and all knots to be checked by instructor before start at throughout session.</li> <li>Use of tri-act Petzl carabineers to add extra safety feature on participants climbing.</li> </ul>	Low
10	Swinging into other participants	<ul style="list-style-type: none"> <li>Participants</li> </ul>	low	<ul style="list-style-type: none"> <li>Climber briefed to stay on their stated route.</li> <li>Instructor to make sure climbing starts on correct route.</li> <li>Routes suitable spread out.</li> </ul>	Low
11	Belayer fails to control system	<ul style="list-style-type: none"> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>See ID 1</li> <li>Belayer to always be backed up by another individual and ground anchored. Possibly left 'tied off' for short periods but monitored.</li> <li>Instructors to only be supervising: 2 belayers at a time if using ATC's, 3 belayers at a time if using assisted breaking devise.</li> </ul>	Low

## Braeside Education Centre - Activity Risk Assessment

12	Injury from holding inappropriate parts of the equipment, ie fingers caught in belay device, rope burn etc.	<ul style="list-style-type: none"> <li>Participants</li> <li>Instructor</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Brief to be given on where to hold and where not to before climbing and belaying.</li> <li>Instructor to monitor belaying though out</li> </ul>	Low
13	Participant slipping on descent.	<ul style="list-style-type: none"> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Brief to be given how to descend (abseil position)</li> <li>Helmets to be worn on angled side of wall.</li> <li>Brief to be given on how slippery the wall may be</li> </ul>	Medium
<b>❖ Climbing on auto belay (TruBlue's)</b>					
14	Trublue/Quick jump Malfunction	<ul style="list-style-type: none"> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>See Id 4</li> <li>Trublue devices have Daily and weekly inspection prior to use and 6-monthly inspection, also have annual service by Entre Prises. All in accordance with head rush guidance.</li> </ul>	Low
15	In correct clipping in	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>participants</li> </ul>	High	<ul style="list-style-type: none"> <li>See ID 1</li> </ul>	Low
16	Climber getting caught on climbing holds	<ul style="list-style-type: none"> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Helmets must be taken off before using auto belay/descending devices.</li> <li>All loose baggy clothing to be taken off or tucked away</li> <li>Participant taught how to descend properly and warned of risks of not</li> </ul>	low
<b>❖ Use Of Auto Ladder Fall Arrest systems (ALF's) and use of ladder and Block Climb (Route 1 Angled Wall)</b>					
17	Equipment Malfunction	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>See ID 4</li> <li>Tug Test Before Daily Use</li> <li>In situ ropes and equipment checked visual before use.</li> </ul>	Low

## Braeside Education Centre - Activity Risk Assessment



Braeside Education  
Centre

18	Falling off ladder	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Ladder to be used by staff only unless needed for method of descent for Participant if other methods are not suitable.</li> <li>3 points of contact with the ladder.</li> <li>Helmets to be worn when using ladder.</li> <li>Awareness raised of potential swing if losing balance on climb up.</li> </ul>	Low
19	Falling in to wall on block climb	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Helmets to be worn when using block climb</li> <li>Verbal brief on slippery wood</li> <li>Rope to be kept taught for unsteady climbers in necessary.</li> </ul>	Low
20	Incorrect clipping in	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>participants</li> </ul>	high	<ul style="list-style-type: none"> <li>See ID 1</li> <li>Karabiner to be secured at top of wall when not in use.</li> </ul>	Low
<b>❖ Abseiling</b>					
21	Equipment Malfunction	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	High	<ul style="list-style-type: none"> <li>See ID 4</li> <li>In situ equipment checked visual before use.</li> </ul>	Low
22	Jewellery, long hair, clothing & hands catching in equipment	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>See ID 3</li> <li>Descender on extension to keep further away from participant.</li> <li>Participants briefed where to hold the rope to keep their hands away from descender.</li> </ul>	Low
23	Participant letting go of their descending rope	<ul style="list-style-type: none"> <li>Participant</li> </ul>	High	<ul style="list-style-type: none"> <li>Participants always to be backed up on a safety rope by an instructor.</li> </ul>	Low
24	Participant slipping on descent.	<ul style="list-style-type: none"> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Brief to be given how to descend (abseil position)</li> <li>Helmets to be worn.</li> <li>Brief to be given on how slippery the wall may be.</li> <li>Instructor to be watching and communicating where necessary to help participant stay in correct position</li> </ul>	Low

## Braeside Education Centre - Activity Risk Assessment



Braeside Education  
Centre

25	Entering landing zone when abseil is in use	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> <li>Anyone entering climbing area</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Only Climber and staff to be in landing area</li> <li>Brief to be given about keeping area clear</li> <li>Instructor to check the area is clear before letting Participant down</li> <li>Instructor to watch the Participant the whole way down and stop their descent in needed.</li> <li>Ground person to be in control of the waiting group, keeping them in waiting area.</li> </ul>	Low
26	Burn from hot Descender	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> <li>Ground person</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Verbal warning the equipment may get hot</li> <li>Lowering speed controlled by instructor to reduce heat build up</li> </ul>	Low
27	Burn from rope	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Lowering speed controlled by instructor to reduce heat build up</li> <li>Correct friction hitch to be used to reduce friction on instructor's hands.</li> <li>Gloves to be used if necessary</li> </ul>	low
<b>❖ Zip Wire</b>					
28	Incorrect clipping in	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>participants</li> </ul>	high	<ul style="list-style-type: none"> <li>See ID 1</li> </ul>	Low
29	Items falling from the person as they "zip"	<ul style="list-style-type: none"> <li>Braeside Staff</li> <li>Participants</li> <li>By standers under zip wire.</li> </ul>	Medium	<ul style="list-style-type: none"> <li>All loose items to be removed from participants before Descending.</li> <li>Drag back rope to be securely coiled and held by participants</li> <li>Bag used or clip to participant if instructor feel necessary</li> </ul>	Low

## Braeside Education Centre - Activity Risk Assessment



Braeside Education  
Centre

30	Impact against climbing wall, End platform, or zip end platform staff.	<ul style="list-style-type: none"> <li>Participants</li> <li>Braeside Staff</li> </ul>	High	<ul style="list-style-type: none"> <li>Participant to be briefed to step out from wall when leaving not to sit down</li> <li>Zip top instructor to check with zip end instructor before sending participant</li> <li>Zip end instructor to make sure platform in clear before giving consent to send participant</li> <li>Participant to be connected at a suitable height so they do not contact the platform</li> </ul>	Low
31	Steps at descent / landing point falling or slipping	<ul style="list-style-type: none"> <li>Participants</li> <li>Braeside Staff</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Steps are supervised by zip end instructor</li> <li>Make sure drag back rope is not a trip hazard</li> <li>Participants are asked to walk down steps</li> </ul>	Low
32	Hitting step ladder if left in place during descent	<ul style="list-style-type: none"> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Step ladder no longer used as main method of exiting zip wire; they may still be used if needed.</li> <li>Zip end instructor to make sure they are removed after use.</li> <li>Zip top to visual check for a clear run and to wait for consent from zip end instructor.</li> </ul>	Low
33	Jewellery, long hair, and clothing catching or snagging on equipment.	<ul style="list-style-type: none"> <li>Participants</li> </ul>	Medium	<ul style="list-style-type: none"> <li>See ID 3</li> <li>Zip end instructor to make sure descender is clear from and hazards before operation.</li> <li>Trees to be regular trimmed back.</li> <li>Visual check for overhanging trees before start of session.</li> </ul>	Low
34	Smoke hazard (zip wire is over survival area)	<ul style="list-style-type: none"> <li>Participants</li> <li>Braeside Staff</li> </ul>	Medium	<ul style="list-style-type: none"> <li>Any groups building fires MUST ensure that the fires are not directly underneath the Zipwire due to possible effects upon wire.</li> <li>Fires should not be lit if smoke/wind direction is towards zip platform or wires.</li> </ul>	Low

## Braeside Education Centre - Activity Risk Assessment



Braeside Education  
Centre

35	Not making it to end platform/ unconscious Participant.	<ul style="list-style-type: none"><li>Participants</li></ul>	Medium	<ul style="list-style-type: none"><li>Drag back rope can be used to drag to platform. If rope cannot be used rescue procedure to be followed</li><li>Pole hook can be used to retrieve if within its reach or to pull down on wire and let gravity bring the to you.</li></ul>	Low
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