



# ADVENTURE ACTIVITIES RISK ASSESSMENT AND CONTROL RECORD

*This Risk Assessment shall be reviewed at least every 2 years, upon identification of any new risks or whenever there is a related incident or change in a the task, process or activity which may alter risks*

<b>PART A - ACTIVITY DETAILS</b>			
<b>Name of activity:</b>		<b>Risk Assessment Number:</b>	
Vertical Playpen		YMCA-AA-RAH09	
<b>Activity Scope:</b>		<b>ACTIVITY RISK RATING</b>	
This climbing activity involves the participants ascending different vertical elements, to provide a diverse and challenging climbing experience that enhances physical fitness, coordination, and problem-solving skills. Participant safety is a top rope anchor system with the participants being belayed from the ground by either an Outdoor Leader and client staff, or other participants depending on the age of the participants.		<b>Overall Risk Level (without Controls)</b>	<b>Overall Risk Level (with Controls)</b>
		Medium	Low
<b>Equipment / Facility Requirements:</b>	<b>Supervision Requirements:</b>		<b>Activity Leader Qualification Requirements:</b>
Harnesses, helmets, ropes, karabiners, ascenders, belay devices	Supervision of active participants	1 Outdoor Leader and 1 responsible person (e.g. Teacher)	Lead Challenge Course - high elements, Lead Top Rope skill set, or similar qualification. YMCA Internal Training and current first aid
	Supervision of non-active participants	1 responsible person (e.g. Teacher)	
<b>Prepared By:</b>	<b>In Consultation with:</b>		<b>Issue Date:</b>
Lynda Aldridge	Brent Greenfield, Jackie Kelly, Jordan Devine, Graeme Ferguson		1-Dec-2023
<b>Next Review Date:</b>			
	30-Nov-2026		
<b>WHS Advisor</b>	<b>Group Manager</b>		
Michael Schablon	Michelle Stanton		
<b>Reference Information:</b> (e.g. manufacturer's instructions, operating manuals, industry information, Company Policies, CoP, Standards, Regulations)		<b>Supporting Documentation:</b> (e.g. Work Instruction, SWP, Guidelines, Manuals, Inspection Checklists, Training Records, Signage)	
Australian Adventure Activity Standard, Core Good Practice Guide (GPG) & Abseiling and Climbing GPG v1.0, Artificial Climbing Structures and Challenge Courses AS/NZS 2316.2.1:2016 CARA guidelines: Climbing and abseiling (artificial surfaces). Industrial Fall Arrest Systems and Devices AS1891		Master Adventurous Activity Risk Assessment and Control Record Vertical Playpen Standard Operating Procedures Equipment Inspection, routine Equipment Inspection, annual iAudit Training records	

RISK ASSESSMENT MATRIX		Consequences				
		A – Insignificant Near miss or limited harm not requiring first aid	B – Minor Injury or illness requiring no medical treatment with no lost time and minor incidents	C – Moderate Compensable physical or phycological injury with > 7 days off.	D – Major Serious Injury resulting in permanent impairment / long term rehabilitation	E – Extreme Death, multiple serious injuries.
Likelihood	<b>5-Almost Certain</b> Is expected to occur again either immediately or within a short period of time (likely to occur most weeks or months)	MEDIUM	HIGH	HIGH	HIGH	HIGH
	<b>4-Likely</b> Will probably occur in most circumstances (several times a year)	LOW	MEDIUM	MEDIUM	HIGH	HIGH
	<b>3-Possible</b> Probably will occur at some time (may happen every 1-2 years)	LOW	LOW	MEDIUM	MEDIUM	HIGH
	<b>2-Unlikely</b> Possibly to occur at some time in 2-10 years	LOW	LOW	LOW	MEDIUM	MEDIUM
	<b>1-Rare</b> Unlikely to occur only in exceptional circumstances (may happen every 10 – 20 years)	LOW	LOW	LOW	LOW	MEDIUM
RISK CONTROL HEIRARCHY						
Proactive		Level 1	<b>Elimination</b> - Can risks be removed, repaired, outsourced or otherwise eliminated?			
		Level 2	<b>Substitution</b> - Can risks be reduced through substituting the hazard or process with a safer alternative?			
			<b>Isolation</b> - Can risks be reduced through isolating the hazard from possible contact with workers or patrons?			
		Level 3	<b>Engineering</b> - Can risks be controlled through engineering means or structural / equipment modification?			
<b>Administration</b> - Can risks be controlled through training, supervision and / or signage?						
Reactive		Level 4	<b>Personal Protective Equipment</b> - Can risks be controlled through the use of personal protective equipment?			
			<b>Emergency Response</b> - Can risks be reduced through the provision of special / additional emergency response equipment and/or procedures? (measures in addition to standard First Aid kits, First Aid personnel, Fire Safety Installations, Fire and Evacuation Plans, training and drills)?			

**PART B - HAZARD IDENTIFICATION, RISK ASSESSMENT AND CONTROL**

Hazard	Risk Event	Consequences	Initial Risk			Control Measures	Person Responsible	Current Risk		
			L	C	R			L	C	R
<i>What is the source of the Risk?</i>	<i>How can a person be injured?</i>	<i>What are the expected injuries / illness?</i>	L	C	R	<i>What will reduce the likelihood or consequences?</i>	<i>Who is responsible for implementing the control measure?</i>	L	C	R

**Environment** – hazards and risks associated with the Environment.

Please refer to Master Risk Assessment for Adventurous Activities for generic risk assessment and controls

**PART B - HAZARD IDENTIFICATION, RISK ASSESSMENT AND CONTROL**

Hazard	Risk Event	Consequences	Initial Risk			Control Measures	Person Responsible	Current Risk		
<i>People – List all hazards and risks associated with People.</i>										
Swinging participant or equipment	Participants or bystanders being struck by swinging participant or equipment	Abrasions, contusions, lacerations	3	C	M	<ul style="list-style-type: none"> <li>• Clear boundaries to be marked out with cones or rope for high risk flight or drop zone areas</li> <li>• Participants excluded from, and briefed about, drop zones/ flight lines during activity</li> <li>• Brief client staff on required general supervision and monitoring of behaviour during the activity session</li> </ul>	Outdoor Leader	2	B	L
Working or participating at heights	Participant sustaining a fall	Strains, sprains, fractures, concussions	3	C	M	<ul style="list-style-type: none"> <li>• Program Staff are to climb only when under the direct supervision of another Ropes accredited Program Staff member with Vertical Rescue (VR) competency during rescue or resetting of trace lines</li> <li>• If no suitably qualified staff is available, based on the staff's experience approval can be provided to climb under the supervision of a non-accredited high ropes Program Staff member if there is a Staff member on-site with VR competency</li> <li>• Provide annual rescue training for Outdoor Leaders</li> <li>• Outdoor Leaders to have completed SOP training and adhere to requirements</li> </ul>	Program Coordinator	2	B	L
						<ul style="list-style-type: none"> <li>• Follow correct working at height and Standard Operating procedures</li> <li>• Demonstrate to participants how to correctly fit the harness</li> <li>• Check participant harness before commencing activity</li> <li>• Ensure use of full body harness where inversion is probable</li> <li>• Ensure harnesses are connected by safety line to the appropriate anchor point or belay where exposure to a fall exists</li> <li>• Use belay system appropriate to activity and location</li> <li>• Ensure that helmets are worn at all times when working at heights greater than 1200 mm including ascending and descending</li> <li>• Check all participants understand the nature of the activity and instructors</li> <li>• Ensure correct usage of safety tails where applicable</li> <li>• Ensure use of a rescue line when ascending staples where applicable</li> <li>• Ensure rescue pack with spare equipment is accessible</li> </ul>	Outdoor Leader			

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Hazard	Risk Event	Consequences	Initial Risk		Control Measures	Person Responsible	Current Risk	
<b>People – List all hazards and risks associated with People.</b>								
Working or participating at heights	Participant sustaining a fall	Strains, sprains, concussions	3	C M	<ul style="list-style-type: none"> <li>• Explain and demonstrate, to client staff the correct belaying technique appropriate to activity. (ensuring maintaining hand on brake rope at all times).</li> <li>• Check and confirm client staffs' ability to use and control equipment before activity commencement</li> <li>• Observe and monitor client staffs' performance of belay technique and provide feedback and corrective instruction</li> <li>• Ensure minimum slack on belay rope to minimise fall distance</li> <li>• Ensure participants are completely 'on rope' and not holding or standing on anything prior to lowering.</li> </ul>	Outdoor Leader	2	B L
	Panic attack	Minor psychological	3	B L	<ul style="list-style-type: none"> <li>• Adhere to the 'Challenge by Choice' philosophy</li> </ul>		2	A L
Working or participating at heights	Extended time in harness causing exposure to harness hang syndrome	nausea, low blood pressure, loss of responsiveness	3	C M	<ul style="list-style-type: none"> <li>• Follow rescue hierarchy based on qualifications: unassisted self rescue -&gt; basic assisted rescue -&gt; technical rescue</li> <li>• Undertake rescue training to ensure competence in undertaking rescues</li> <li>• All rescues completed as expediently as safety allows</li> <li>• Instruct participant to move their legs and try and remove the weight from their harness</li> <li>• Have a suitably equipped rescue pack with spare equipment</li> <li>• Know the signs and symptoms of Harness Suspension Trauma</li> </ul>	Outdoor Leader	1	C L

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Hazard	Risk Event	Consequences	Initial Risk	Control Measures	Person Responsible	Current Risk	
<b>People – List all hazards and risks associated with People.</b>							
Dynamic nature of heights activities	Inversion of participant causing them to fall out of the safety harness	Strains, sprains, fractures and/or concussion	3	D M	<ul style="list-style-type: none"> <li>• Ensure correct use of harness appropriate for the activity</li> <li>• All participant shown how to correctly fit harness</li> <li>• Harness to be checked by Program Staff</li> <li>• Participants to be made aware of risks associated with the activity</li> <li>• Briefed on risk of inversion</li> <li>• Sit harness to be correctly fitted. A full body harness to be utilised if sit harness does not. If available harnesses do not fit participant then participant unable to partake in activity due to safety concerns.</li> </ul>	Outdoor Leader	1 D L
	Failure to adhere to correct belay procedures resulting sudden in impact with the ground or object	Strains, sprains, fractures and/or concussion	3	C M	<ul style="list-style-type: none"> <li>• Participants briefed on positioning of hands and use of karabiners / descending device etc.</li> <li>• Minimum belay conditions Grade 7 (approx. 12 years old) to be adhered to</li> <li>• Back up belay system to be used if participants belaying</li> <li>• Ensure client staff are maintaining supervision and monitoring of behaviour during the activity session</li> </ul>	Outdoor Leader	2 B L
Falling Objects	Struck by falling objects	Lacerations, contusions, concussion	3	B L	<ul style="list-style-type: none"> <li>• Ensure all items in pockets etc. are removed prior to commencing activity</li> <li>• Brief participants not to throw items in activity area</li> <li>• Brief participants on where to stand during activity</li> <li>• Ensure no-one is beneath Outdoor Leaders when handling equipment</li> <li>• Ensure approved helmets are worn by anyone in the drop zone</li> </ul>	Outdoor Leader	2 A L

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<b>PART B - HAZARD IDENTIFICATION, RISK ASSESSMENT AND CONTROL</b>									
Hazard	Risk Event	Consequences	Initial Risk		Control Measures	Person Responsible	Current Risk		
<b>Logistics &amp; Equipment – List all risks associated with Logistics and Equipment.</b>									
Incorrect set up or use of equipment	Equipment failure	Abrasions, contusions, lacerations	3	A L	<ul style="list-style-type: none"> <li>Set up to be cross-checked by qualified person prior to commencing the activity</li> </ul>	Program Coordinator	2	A	L
Personal Protective Equipment (PPE)	Not provided or not correctly fitted	Abrasions, contusions, lacerations, asphyxiation	3	D M	<ul style="list-style-type: none"> <li>Different size helmets available and highly adjustable</li> <li>Helmets to be of the correct size and fit</li> <li>Helmets to be checked prior to commencing activity</li> <li>Helmets to be worn and secured throughout any activity session where participants are exposed to typical climbing/abseiling hazards</li> <li>Helmets to remain on participants until completion of the activity</li> </ul>	Outdoor Leader	2	B	L
Using damaged equipment	Equipment failure	Abrasions, contusions, lacerations, asphyxiation	4	D H	<ul style="list-style-type: none"> <li>Challenge course including cables, fixtures and challenge elements inspected half yearly</li> </ul>	Logistics Coordinator	2	C	L
			3	C M	<ul style="list-style-type: none"> <li>Particular attention to fastening systems when removable rope systems are used</li> <li>Suitable top anchor points to be used with correct capacity (15kN if 1 person using anchor or 21kN if 2 people are using the anchor point)</li> <li>Ropes course installer to be consulted regarding intended use of anchor points</li> </ul>	Outdoor Leader	2	C	L
Handling Rope	Excessive friction if holding the rope and it is pulled quickly	Minor friction burn	3	C M	<ul style="list-style-type: none"> <li>Participant attachment system as simple as possible and standard across multiple activities</li> </ul>	Program Coordinator	2	A	L
					<ul style="list-style-type: none"> <li>Instruct participants not to wrap the rope around their limbs</li> <li>Any loose ends of rope to be correctly secured</li> <li>Gloves provided for belayers on request</li> </ul>	Outdoor Leader	2	C	L

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<b>Logistics &amp; Equipment – List all risks associated with Logistics and Equipment.</b>										
Handling Devices	Entrapment of clothing or body parts, entanglement in equipment	Minor abrasions, contusions, lacerations	4	B	M	<ul style="list-style-type: none"> <li>• Program to be developed to ensure it fits with individual group capabilities</li> </ul>	Program Coordinator	2	B	L
						<ul style="list-style-type: none"> <li>• Ensure standard rescue kit with spare equipment is available in case of emergency is accessible</li> <li>• Design of setup includes standard attachment method across activities and sites (where possible), as simple as possible and using the safest devices available</li> </ul>	Logistics Coordinator	2	B	L
						<ul style="list-style-type: none"> <li>• Brief participants on activity and potential risk of injury</li> <li>• Demonstrate correct handling of equipment</li> <li>• Learning checks performed</li> <li>• Modifications made where necessary</li> <li>• Ensure long hair is tied back before participating in the activity</li> <li>• All forms of jewellery should be removed or protected (e.g. tape) before participating in the activity</li> <li>• Ensure client staff are providing supervision and monitoring of behaviour during the activity session</li> </ul>	Outdoor Leader	3	B	L
						<ul style="list-style-type: none"> <li>• Brief participants on positioning of hands and use of karabiners and descending device (where applicable)</li> </ul>				
						<ul style="list-style-type: none"> <li>• Brief participants on how far to climb and not to touch pulleys</li> </ul>	2	A	L	

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