



# Crate Climb Risk Management Plan

Lutanda Toukley

School: \_\_\_\_\_ Year: \_\_\_\_\_ Dates: \_\_\_\_\_

Program: \_\_\_\_\_ Supervising Staff: \_\_\_\_\_

## Activity Context

Crate Climb is a team activity where participants take it in turns to climb a stack of crates while being belayed on a rope. Other participants help to build the stack of crates and belay the climbers. Participants are given clear instructions on the different roles in the activity, and are encouraged to work as a team to build the highest stack of crates.

This document contains the specific risks, control measures and grading for the Crate Climb activity. Please refer to the document **General Activity RMP – Lutanda Toukley** for a list of general risks and control measure relevant for all Lutanda Toukley activities, as well as risk rating information.

## Risk Management Plan

Hazard / Risk Description	Existing Control Measures	Risk Rating		
		Likelihood	Consequence	Control Effectiveness
<i><b>Crate Climb Specific</b> – Risk factors specifically associated with the Crate Climb activity at Lutanda Toukley</i>				
<b>Fall from height</b>	<ul style="list-style-type: none"> <li>Pre-activity briefing conducted by Activity Instructor</li> <li>All participants must wear correctly fitted harness and helmet, and safety lanyards</li> <li>Participants belayed by team of belayers</li> <li>Activity Instructors check that participants are connected to belay lines and check equipment prior to participant starting</li> <li>Friction devices installed in belay lines to slow movement of rope</li> </ul>	Rare	Major	Low
<b>Belayers</b> Participants belaying incorrectly	<ul style="list-style-type: none"> <li>Pre-activity briefing conducted by Activity Instructor</li> <li>At least 3 belayers on the team at once</li> <li>Activity Instructors check belay team is ready prior to climb</li> <li>Friction devices installed in belay lines to slow movement of rope</li> <li>Belaying is supervised by Activity Instructor</li> </ul>	Likely	Minor	Medium
<b>Impact</b> By participant <ul style="list-style-type: none"> <li>To other persons</li> <li>To pole</li> <li>Landing too hard on ground</li> </ul>	<ul style="list-style-type: none"> <li>Boundaries identified to group at start of the activity</li> <li>Belay lines are set away from poles</li> <li>Activity Instructor warns participant if they are swinging towards pole</li> <li>Participants required to wear helmets</li> <li>Activity Instructor encourages participant to bend their knees as they reach the ground</li> <li>Activity Instructor guides belay team through lowering climbers</li> <li>Crate stacks to be only pushed over away from other participants</li> <li>Crate stacks to be only pushed over when Activity Instructor gives signal</li> </ul>	Possible	Minor	Medium

Crate Climb Risk Management Plan – Lutanda Toukley

Hazard / Risk Description	Existing Control Measures	Risk Rating		
		Likelihood	Consequence	Control Effectiveness
<b>Entanglement</b> - Hair, clothing or jewellery	<ul style="list-style-type: none"> <li>All loose clothing, jewellery and other objects that may become entangled are to be removed for the activity</li> <li>Long hair is to be tied back for the activity</li> </ul>	Unlikely	Minor	Low
<b>Hand getting Caught</b> In belay device	<ul style="list-style-type: none"> <li>Participants briefed on correct belaying, including to keep hands away from belay device</li> </ul>	Unlikely	Moderate	Medium
<b>Falling Crates</b> Onto person/s, causing injury	<ul style="list-style-type: none"> <li>No crates to be stacked over 4 high until Activity Instructor gives signal to start</li> <li>Crates are to be stacked correctly</li> <li>Participants briefed on stacking crates correctly</li> <li>Activity Instructor monitors crate stack</li> <li>Crate stack builders, climber and Activity Instructor wear helmets in the crate fall zone</li> <li>Crate building area clearly defined at start of the activity</li> <li>Crate stacks to be only pushed over away from other participants</li> <li>Crate stacks to be only pushed over when Activity Instructor gives signal</li> </ul>	Likely	Minor	Medium
<b>Inverting</b> Where participant flips upside down	<ul style="list-style-type: none"> <li>Proper harness fitting demonstrated, and harnesses checked for each participant prior to starting course</li> <li>Harnesses are full body harnesses</li> <li>Attachment point for harnesses discourages accidental flipping</li> </ul>	Unlikely	Minor	Low
<b>Participant stuck on course</b> Emotionally	<ul style="list-style-type: none"> <li>Activity run on challenge by choice principles</li> <li>Participants given choice about height of crate stack</li> <li>Groups encouraged to be supportive</li> </ul>	Possible	Minor	Medium
<b>Structure Failure</b> Safety of the high ropes course structure	<ul style="list-style-type: none"> <li>Poles and cables installed by qualified course builders</li> <li>Regular inspections of structure and anchors performed by activity staff</li> <li>Yearly inspections by external assessor performed</li> </ul>	Rare	Catastrophic	Medium

### Risk Rating Matrix

All identified risks are recorded in the following risk matrix according to likelihood and consequence. The purpose of this matrix is to provide a snapshot of all identified risks and establish the level of risk to determine if further treatment is required.

Likelihood	Consequences				
	1 - Insignificant	2 - Minor	3 - Moderate	4 - Major	5 - Catastrophic
1 - Rare	1	2	3	4 Fall from height	5 Structure failure
2 - Unlikely	2	4 Entanglement, inverting	6 Caught hand	8	10
3 - Possible	3	6 Impact, participant stuck	9	12	15
4 - Likely	4	8 Belaying, Falling Crates	12	16	20
5 - Almost certain	5	10	15	20	25

### Risk Treatment

<b>1-4 Low Risk</b> <ul style="list-style-type: none"> <li>Risk does not generally need to be managed any further (current controls are adequate), however the risk needs to be monitored for changes in circumstances and current control effectiveness.</li> <li>Risk generally may be accepted.</li> </ul>	<b>10-14 High Risk</b> <ul style="list-style-type: none"> <li>Risk is unacceptable, risks must be further treated or removed to bring rating to medium</li> <li>Risks are to be re-assessed by Activities Manager</li> </ul>
<b>5-9 Medium Risk</b> <ul style="list-style-type: none"> <li>Risk needs to be regularly monitored for any changes and control/treatment effectiveness.</li> <li>Risk may be accepted after consideration.</li> </ul>	<b>15+ Extreme Risk</b> <ul style="list-style-type: none"> <li>Unacceptable risk, urgent attention is required to treat or remove risks</li> <li>Management to consider elimination of activity</li> </ul>

Risk Assessment Conducted by: *Program Manager, Lutanda Toukley*

Date of Risk Assessment: 29<sup>th</sup> May 2017

Date of Review: May 2018