

# Crate Climb Risk Management Plan



*Lutanda Mt Victoria*

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

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

## Activity Context

Crate Climb is fun way to challenge participants in their confidence, teamwork, decision making and balance skills. The Crate Climb at Lutanda Mt Victoria consists of constructing and climbing a tower built from milk crates, with one participant as the climber and two others as a build team, while the facilitator belays the climber.

### Leader to Participant Ratios

For groups 13yo and above:  
1 Activity Facilitator to 17 participants

For groups 8-13yo:  
1 Activity Facilitators to 17 participants

For all groups with participants under 18yo:  
Group is required to have a supervising adult present

Participants under 8yo are to have a competent person accompanying along the course

Higher ratios may be required depending on differing group requirements or circumstances

### Participation Requirements

Participants are required to demonstrate competence in using belay straps on low course prior to using the high course. Participants are to be fit, healthy and able to follow instructions

For safety, jewellery is to be removed and long hair tied back

Maximum Weight: 110kgs

Minimum Age: 8yo

Pregnant women are restricted from participating in this activity. Further restrictions may apply

### Equipment

Participants are required to wear/have the following:

- Sun protection (sunscreen, shirt etc.)
- Closed toe footwear
- Shoulder length shirt/top
- Pants or knee length shorts
- Adequate water
- Any medication required

The following personal protective equipment is provided and must be worn by participants using the course:

- Full Body Harnesses
- Helmets
- Belay straps

### Activity Facilitators

Activity Facilitators are trained and signed off as competent to run activity by Activities Manager with 6 years experience with Crate Climb

Activity Facilitators hold current first aid and CPR certificates

### Emergency

Crate Climb is conducted on site and first aid is located nearby  
Ambulance time is 15 minutes

Activity Facilitators carry the following equipment:

- First Aid Kit
- UHF Radio

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## Risk Management Plan

Hazard / Risk Description	Existing Control Measures	Risk Rating		
		Likelihood	Consequence	Risk Rating
<b>Crate Climb Specific</b> – Risk factors specifically associated with the Crate Climb course activity at Lutanda Mt Victoria				
<b>Fall from height</b>	<ul style="list-style-type: none"> <li>Pre-activity briefing conducted by Activity Facilitator</li> <li>All participants must wear correctly fitted harness and helmet</li> <li>Facilitator is operating the belay line</li> </ul>	Rare	Catastrophic	Satisfactory
<b>Impact</b> By participant climbing - To other persons - Ground	<ul style="list-style-type: none"> <li>Belay run by facilitator</li> <li>Build team instructed on where to stand when tower starts to fall</li> <li>Dynamic rope used for belay</li> </ul>	Unlikely	Moderate	Satisfactory
<b>Entanglement</b> 1. 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	Moderate	Satisfactory
2. Fingers getting caught in clips	<ul style="list-style-type: none"> <li>Participants encouraged to complete the course without holding on to belay cable to keep fingers away from carabineers</li> </ul>	Rare	Major	Satisfactory
<b>Falling Objects</b> Causing injury; e.g. equipment, loose items etc.	<ul style="list-style-type: none"> <li>Participants briefed on not carrying loose items, participants checked for loose items before starting course</li> <li>Climber and build team required to wear helmets at all times during tower build</li> <li>Build team briefed on how/where to stand if crates start to fall</li> <li>Observers to be briefed on safe area to wait</li> </ul>	Unlikely	Moderate	Satisfactory
<b>Chafing</b> Caused by harness rubbing on skin	<ul style="list-style-type: none"> <li>List of appropriate clothing provided to group prior to camp</li> <li>Participants asked to change into appropriate clothing prior to activity to prevent harness resting on skin</li> </ul>	Unlikely	Minor	Satisfactory
<b>Harness Trauma</b> From falling unconscious while roped	<ul style="list-style-type: none"> <li>Participant can be lowered immediately by facilitator</li> </ul>	Rare	Major	Satisfactory
<b>Inverting</b> Where participant flips upside down while on course	<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	Satisfactory
<b>People</b> – Risk factors associated with the people using the activity				
<b>Participant Behaviour</b> Inability or decision to not follow directions or cooperate	<ul style="list-style-type: none"> <li>Clear behaviour expectations set at start of activity sessions</li> <li>Encouraging supportive environment</li> <li>Maintaining supervision</li> <li>Outline consequences of inappropriate behaviour</li> <li>Removal of individual from activity or cancellation of activity</li> </ul>	Unlikely	Major	Satisfactory
<b>Participant Ability</b> Unable to complete activity due to: <ul style="list-style-type: none"> <li>Fear / Anxiety</li> <li>Complacency / Overconfidence</li> <li>Physical Ability</li> </ul>	<ul style="list-style-type: none"> <li>Supportive environment encouraged</li> <li>Participants briefed according to age, ability, experience</li> <li>Participation is based on meeting requirements</li> <li>Demonstration of understanding and/or skills must be shown prior to undertaking activity</li> <li>Participants are guided through activity supportively by Activity Facilitator</li> <li>Activities are challenge by choice - participants are positively challenged but not forced to participate</li> </ul>	Likely	Minor	Satisfactory

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Crate Stacking Risk Management Plan – Lutanda Mt Victoria

Hazard / Risk Description	Existing Control Measures	Risk Rating		
		Likelihood	Consequence	Risk Rating
	in activity			
<b>Activity Facilitator</b> Unsafe practices leading to an injury to a participant caused by: <ul style="list-style-type: none"> <li>Poor supervision by Activity Facilitator</li> </ul>	<ul style="list-style-type: none"> <li>Activity Facilitators must follow Standard Operating Procedures at all times</li> <li>Activity Facilitators are trained and signed as competent, by a qualified Activities Instructor with 6 years experience in Crate Climb Courses</li> <li>Vigilant supervision required by Activity Facilitators at all times</li> <li>Leader personal protective equipment and rescue equipment available at activity at all activity sessions</li> <li>Communication equipment available readily at activity sessions</li> </ul>	Unlikely	Major	Satisfactory
<b>Group Leader</b> Unsafe practices including: <ul style="list-style-type: none"> <li>Poor supervision by group leaders</li> </ul>	<ul style="list-style-type: none"> <li>Groups briefed on requirement to provide supervising adult for participants under 18 years old prior to camp and activities</li> <li>Activity Facilitators will stop or cancel activity without adequate supervision from Group Leader</li> </ul>	Unlikely	Major	Satisfactory
<b>Observers</b> Injury to... Guests or others observing activity while it is running	<ul style="list-style-type: none"> <li>Flying Fox landing area fenced off</li> <li>Observers not allowed to participate in activity without activity briefing</li> </ul>	Unlikely	Major	Satisfactory
<b>Unsupervised Users</b> Injury to...Guests on site when activity is not running; Members of public accessing camp land (unauthorised)	<ul style="list-style-type: none"> <li>Groups briefed on not using facilitated activities without Activity Facilitators</li> <li>Ladders &amp; ropes removed from course when not in use, locked</li> <li>Activity equipment locked away when not in use</li> <li>Course located near security camera and property gate closed at night</li> </ul>	Unlikely	Major	Satisfactory
<b>Equipment – Risk factors associated with the equipment used for the activity</b>				
<b>Equipment Failure</b> Due to improper use, faulty / damaged equipment  Ropes, hardware, personal protective equipment	<ul style="list-style-type: none"> <li>Activity Facilitators trained in selection, use, inspection, care &amp; maintenance of activity equipment</li> <li>Activity Facilitators perform check of equipment prior to each activity</li> <li>Participants briefed on proper use of equipment</li> <li>All equipment clearly stored and labelled for activity intended for</li> <li>Equipment regularly inspected and maintained</li> <li>Equipment stored, maintained and retired according to manufacturer instructions</li> <li>Equipment used certified by manufacturer as suitable for use</li> </ul>	Rare	Major	Satisfactory
<b>Environment – Risk factors associated with the environment including weather</b>				
<b>Exposure to UV rays</b> Causing sunburn	<ul style="list-style-type: none"> <li>Shaded areas available at activity for most parts of day</li> <li>Sun smart strategies are encouraged</li> </ul>	Possible	Minor	Satisfactory
<b>Exposure to Heat</b> Causing dehydration, heat stroke etc.	<ul style="list-style-type: none"> <li>Shaded areas available at activity for most parts of day</li> <li>Sun smart strategies are encouraged</li> <li>Participants are encouraged to drink water, carry water bottles</li> <li>Guests are briefed on location of water filling locations on arrival</li> <li>Activities modified / cancelled if necessary or alternative activities arranged</li> </ul>	Unlikely	Moderate	Satisfactory
<b>Cold / Wet Weather</b> Causing hypothermia etc.	<ul style="list-style-type: none"> <li>Weather conditions regularly monitored for adverse conditions</li> <li>Participants briefed on wearing suitable protective clothing</li> <li>Activities modified / cancelled if necessary or alternative activities arranged</li> </ul>	Rare	Moderate	Satisfactory
<b>Lightning Strike</b>	<ul style="list-style-type: none"> <li>Weather conditions regularly monitored for adverse conditions</li> <li>Activities delayed / cancelled during lightning storm, participants moved to safe area</li> <li>Activities modified / cancelled if necessary or alternative activities arranged</li> </ul>	Rare	Catastrophic	Satisfactory

## Crate Stacking Risk Management Plan – Lutanda Mt Victoria

Hazard / Risk Description	Existing Control Measures	Risk Rating		
		Likelihood	Consequence	Risk Rating
<b>Injury or Allergic Reaction caused by organism</b>	<ul style="list-style-type: none"> <li>Groups briefed on arrival on appropriate actions for sighting/be bitten by snakes</li> <li>Activity area regularly monitored for organisms commonly causing allergic reaction and treated accordingly</li> <li>Suitable medication and first aid to be readily available (user group must provide first aid)</li> <li>Communication equipment readily available</li> <li>Medical assistance within 15 minutes</li> </ul>	Unlikely	Major	Satisfactory
<b>Injury caused by contact with natural features</b>	<ul style="list-style-type: none"> <li>Regular checks of activity area carried out and appropriate maintenance performed (sticks removed etc.)</li> <li>Participants briefed on safe areas</li> <li>Arborist inspects trees for potential falling limbs</li> </ul>	Unlikely	Minor	Satisfactory

## Risk Ratings

This risk assessment is measured according to the following risk ratings:

### Likelihood Ratings

Likelihood is the description of the probability and frequency. The likelihood of the risks occurring as outlined in Lutanda Mt Victoria risk management plans is determined after the control measures have been implemented.

Score	Description	Broad description of frequency	Time framed description of frequency
1	Rare	The event may occur, but only in highly exceptional circumstances	Not expected to occur for years
2	Unlikely	Could occur at some time	Expected to occur at least annually
3	Possible	Might occur at some time	Expected to occur at least monthly
4	Likely	Will probably occur in most circumstances	Expected to occur at least weekly
5	Almost certain	Is expected to occur in most circumstances	Expected to occur at least daily

### Consequence Ratings

The outcome of an event or situation expressed qualitatively or quantitatively, being the human impact, damage to infrastructure, disruption to public or financial loss.

Score	Description	Injury or impact details
1	Insignificant	Little or no injury requiring no medical attention; Minimal impact on environment; Insignificant adjustments to program; Insignificant damage to property, normal wear; Some difficulty in retaining competent staff; Expected running costs incurred
2	Minor	Minor injuries requiring first aid / some medical attention; Minor impact to plants / animals, no disruption to ecosystems; Rescheduling / replacement of program activities to client satisfaction; Damage requiring small repairs, low cost; Some difficulty in attracting, developing, resourcing and retaining competent staff; Minor costs incurred (<\$250)
3	Moderate	Serious injuries requiring hospitalisation / ongoing medical attention; Ecosystem / landscape self repairs within 12mo; Significant disruption / cancellation of program events; Damage requiring moderate repairs or replacement, moderate cost; Significant difficulty in attracting, developing, resourcing and retaining competent staff; Moderate costs incurred (<\$1,000)
4	Major	Injuries that are life threatening or causing long term disability; Ecosystem / landscape self repairs within 36mo; Program disruption causing loss of program; Damage requiring high cost/projects for repair/replacement; Guest experience and program is majorly affected by lack of competent staff; Major costs incurred (<\$15,000)
5	Catastrophic	Fatality; Irrecoverable loss of ecosystem / landscape; Program disruption causing broad loss of reputation; Massive damage, significant replacement of infrastructure required; Programs unable to be fulfilled due to lack of competent staff; Massive costs incurred (>\$15,000)

The consequence of an incident occurring may vary greatly depending on the individual circumstances of each incident.

Example – A student trips and falls – a detailed analysis of falls might show that although falls occur weekly, more serious injuries from falls only occur once or twice a year. In the main most of the other falls have relatively minor outcomes. Therefore the incident could be scored either according to the severity of the actual outcome, or according to the most likely or typical outcome for that type of incident.

Both approaches are valid, however to ensure consistency Lutanda Mt Victoria has adopted an approach to record the most likely or typical outcome for all incidents.

**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.

<b>Likelihood</b>	<b>Consequences</b>				
	<b>1 - Insignificant</b>	<b>2 - Minor</b>	<b>3 - Moderate</b>	<b>4 - Major</b>	<b>5 - Catastrophic</b>
<b>1 - Rare</b>	1	2	3 Exposure to cold	4 Harness trauma, equipment failure, entanglement 2 & 3	5 Fall from height, lightning strike, structure failure
<b>2 - Unlikely</b>	2	4 Falling object, injury from environment, chafing, inverting	6 Entanglement 1, exposure to heat, impact	8 Observers, unsupervised persons, participant behavior, activity facilitator, allergies, unsafe group leader	10
<b>3 - Possible</b>	3	6 Cuts, impact injury, friction burn, UV exposure	9	12	15
<b>4 - Likely</b>	4	8 Slipping/falling onto belay straps, participant ability	12	16	20
<b>5 - Almost certain</b>	5	10	15	20	25

## Risk Treatment

### 1-4 Low Risk

- 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.
- Risk generally may be accepted.

### 5-9 Medium Risk

- Risk needs to be regularly monitored for any changes and control/treatment effectiveness.
- Risk may be accepted after consideration.

### 10 -14 High Risk

- Risk is unacceptable, risks must be further treated or removed to bring rating to medium
- Risks are to be re-assessed by Activities Manager

### 15+ Extreme Risk

- Unacceptable risk, urgent attention is required to treat or remove risks
- Management to consider elimination of activity

Risk Assessment Conducted by: *Luke Willersdorf* Position: *Activities & Hosting Manager, Lutanda Mt Victoria*  
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