



Work Health and Safety

Jumping Castles Risk Assessment plan

Prepared by **BUBBLING WITH ENERGY PTY LTD ATF THE BWE ENTERTAINMENT TRUST**

This document covers all our inflatable mini, midi, medium and large jumping castles, castles with slides, and combo castles.

Organisation				Condition, task, activity or event	
Venue manager					
Assessed by (if applicable)		Date		Location	
Approved by (if applicable)		Date		Review date (if applicable)	
WHS Risk Register update (if applicable)		Date		Prepared in consultation with	Tim Slack- Bubbling With Energy consultant,

The following procedures / guides are understood and acknowledged:

- BWE Weather Monitoring Policy
- Images of some of the products in this category are appended.

FOR SCHOOLS: The following DoE procedures / guides are understood and acknowledged:

- Excursion Planning and Management procedures
- Principal Endorsed Activity Procedures
- Land borne inflatable amusement devices hazard fact sheet.
- Safety Alert 93 – Land-Borne Inflatable Amusement Devices
- Requirements for all sport and physical activity guidelines
- Local workplace safety procedures for independent contractors – Form 34
- Health & Safety Induction Briefing
- Working with Children Check policy and procedures

BWEE risk assessments and associated documentation is attached, including evidence of Public Liability Insurance policy

Risk Management process

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
What presents the potential risk to health and/or safety?	What might happen, how likely is it and what could be the consequence/s?	Apply WHS Risk Matrix	What action/s will be taken to eliminate the risk/s or at least reduce them to an acceptable level?	Apply WHS Risk Matrix	Who is responsible for putting controls in place?	When should the controls be put in place?	When were controls implemented?
Setting up and packing up of the devices	Person struck by vehicle during bump in and bump out. Falling tree branches, overhead or nearby electrical and telephone cables, high wind areas. Rocks or hard surfaces beneath the inflatable. Electrical safety and trips, slips, falls. Litter blocking blower air intake. Patrons going on the devices after the event has finished and it is	EXTREME (20)	BWEE arrival (bump in) as arranged. Departure (bump out) by as arranged. Vehicles are off site for the entire day while event is in place. Pack up is done after event finishes. Inflatables to be located in an open area away from trees and any potential electrical cables. Inflatables will be located on previously agreed area. Area will be checked for any debris during set up by BWEE and event coordinator. Exclusion zone to be established around inflatable / barriers erected. All electrical equipment has been tagged and tested. Blowers are positioned appropriately to ensure no litter or other items block the air intake. Safety check of inflatable devices electrical and other equipment is conducted during set up.	MEDIUM (8)	Event Coordinator in consultation with BWEE.	At time of planning event and morning of / day of event	

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
	no longer being supervised.		Each inflatable will be supervised at all times. Setup/packdown staff trained in correct manual handling. Staff wear appropriate clothing for visibility and control.				
Lack of appropriate insurance certificates and insurance coverage.	Without health insurance, individuals may delay or avoid necessary medical care, which can lead to health complications and reduced well-being.	HIGH (12)	BWEE maintains PL insurance cover of \$20M. Risk assessment and Certificate of Insurance has been provided by BWEE and sighted prior to the event. .	LOW (3)	Event Coordinator	At time of planning event	
Environmental conditions may impact health, safety and wellbeing of participants. Wet / slippery conditions. High winds, storms or temperature affecting the operation of the activity.	Sun burn. Slip, trip and falls Physical Injury	HIGH (12)	Weather forecast (Bureau of Meteorology (BOM) to be checked throughout the week leading up to the event. Anchor points (weights/pegs) are tied down to all sides to prevent the inflatables from moving. Beaufort Wind Scale to measure the speed as to when to deflate the inflatable ie 29kmph Check the Wind Willy app and anemometer for wind conditions Check My Lightning tracker app Apply flash to bang rule.	LOW (2)	Event Coordinator	At least one week leading up to event and regularly on the day of event	

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
			Staff and patrons encouraged to wear hats, sunscreen and to keep hydrated.				
Inappropriate usage or conduct using inflatables. Participants jumping over the sides or off the front of the jumping castle. Accidental collision between participants. Participants throwing themselves heavily against the walls, making the devices move or damage the seams / deflation	Possible sprains, strains, head bumps, concussion, fractures, superficial abrasions	HIGH (12)	BWEE to confirm weight or height restrictions if applicable and number of patrons on a device at any one time. Patrons will be given instructions regarding safety, behaviour, and entry/exit of inflatable. Crash mats will be put down in front of the jumping castle. BWE staff or competent persons as arranged will be supervising all devices. Those supervising the devices will ensure that patrons do not bump into each other or become overly boisterous.	MEDIUM (6)	Event Coordinator / supervising staff	On day of event.	
Participants show signs of crying/scaredness on the inflatable	Psychological disturbance	LOW (3)	BWEE supervisor or competent persons as arranged will stop the activity and assist the patron to leave.	LOW (1)	Event Coordinator in consultation with BWEE	On day of event	
Participants/s on the device could be injured by sharp objects on the jumping castle or inflatable become punctured and deflated.	Physical injury including laceration, puncture wound, crushing.	EXTREME (16)	The inflatables will be set up on even turf. Patrons will be required to remove their shoes and any other sharp objects i.e., jewellery, spectacles etc before they go on the devices.	LOW (3)	Event Coordinator in consultation with BWEE.	On day of event.	

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
Inflatables get wet / participants inside or on the device could slip.	Physical injury	MEDIUM (6)	The device will not be used if it rains and will be dried completely before patrons are allowed on it. Smoking, vaping and food and drink will not be allowed on or near the inflatables.	LOW (1)	Event Coordinator / supervising staff	On day of event.	
Anchor points becoming untethered can result in inflatable dislodging/ becoming air borne / fall from height	Serious physical injury	EXTREME (15)	BWEE's Weather Monitoring risk plan includes unsafe wind conditions, controls required, and anchor point management. Supervising staff to monitor and check through the day and report to BWEE. Prestart walk through with BWEE. Appropriate weighting will be applied to all anchor points.	MEDIUM (4)	Event Coordinator in consultation with BWEE.	On day of event.	
People could trip over the blower or cables and injure themselves or cut off the power and cause the jumping castle to deflate.	Physical injury	HIGH (9)	Exclusion zone to be established around the inflatable and equipment. Those setting up the inflatable will mark off the blower areas and anchor points with bunting. Supervising staff to monitor to ensure barriers/hazard warnings are maintained i.e., patrons don't tamper. Any cables laid across foot traffic areas will be covered by mats	LOW (1)	Event Coordinator in consultation with BWEE.	On day of event.	
Insufficient patron management / support systems in place. Patrons behaving poorly that may cause	Physical injury	HIGH (12)	Rules to be communicated to patrons to ensure there is no kicking, no flips/cartwheels, no fighting, no jumping into people, jumping on/off walls, no hanging from the walls, no equipment on the inflatables, no	LOW (2)	Event Coordinator in consultation with BWEE.	Safety Rules to be established prior to event and	

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
injury to themselves or others. Damage to inflatable devices can result in injury to participants. Crowd congestion			smoking, vaping, food or drinks, no gum, or other choking hazards. BWEE operator or competent persons as arranged must ensure appropriate rules are explained before use (eg jumping only on castle) BWEE to provide / erect signage at the entrance of each activity to convey rules and safety precautions. Supervising staff to ensure that patrons follow rules /safety precautions. Supervising staff apply “2 warnings and you are out” rule for misbehaving patrons.		Supervising staff	displayed on the day	
Patrons may experience motion sickness or vomiting on the jumping castle. Exposure to human bodily fluids i.e., blood from any injuries. Covid 19, influenza and other infection diseases.	Physical condition	HIGH (12)	In the event of any exposure to bodily fluid the device will be closed until such time that the area can be cleaned and sanitised by BWEE or competent persons as arranged Hand sanitiser provided at each inflatable station. Staff encourage to use before entering the inflatable and on exit.	LOW (2)	Supervising staff in consultation with BWEE	On day of event.	
Staff are not aware of incident response procedures. Patron is injured while participating in an activity and staff are	Exacerbation to a physical injury	HIGH (12)	BWEE staff or competent persons as arranged stop device immediately and evacuate non injured patrons. Emergency procedures are followed as per our on site signage and training.	LOW (3)	First Aid Officer	On day of event.	

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
not trained to provide immediate response.			On site First aid staff/paramedics are called to take over care. Fully stocked First Aid Kit is stationed at each inflatable.				
Staff and patrons are not aware of emergency procedures inflatable device electrical fire or equipment damage. Inflatable deflating due to sharp objects or loss of power causing injury and possible suffocation and/or entrapment.	Physical injury / damage to property	EXTREME (15)	All staff and patrons are aware of emergency procedures and first aid response procedures. If deflation occurs patrons are evacuated immediately. Safety check of device electrical and other equipment is conducted and approved regularly by a competent person. Limit number of patrons on each device is monitored. First aid kit is stationed at each inflatable. Supervising staff have been provided safety induction in relation to the inflatable by BWEE. Equipment provider has a risk assessment in place and certification or documentation showing the equipment is safe for use and in good working condition.	MEDIUM (4)	Event coordinator in consultation with BWEE.	On day of event.	
Device Compliance	Device not compliant with Australian standards resulting in asset defect or failure,	HIGH (12)	Manufacturing and testing in accordance with Australian Standard 3533 (series) – Amusement rides and devices Regular inspection and maintenance on device, generators, blowers.	MEDIUM (4)	BWEE management	Pre event	

Hazard/s	Risk/s	Risk rating	Control action/s	Risk rating after controls	Responsible	Due	Complete
	patron/staff injury		Annual maintenance inspection by a competent engineer.				
Petrol Blower (if required)	Physical injury	HIGH (10)	Petrol fans are fenced off and petrol is stored in BWE vehicle. Vehicles are equipped with fire extinguisher. When BWE is not supervising, training and a user manual are provided.	MEDIUM (4)	Event Coordinator in consultation with BWEE Supervising staff	On day of event.	
Injury during deflation of inflatables / pack up and exit	Physical injury	HIGH (12)	BWEE's risk assessment documents include safe deflation procedures. Post event inspection completed to ensure the area is left in safe condition with no damage to property or grounds.	LOW (3)	Event Coordinator on consultation with BWEE.	End of activities / completion of event.	

Risk matrix and evaluation

Table 1: THE WHS RISK MATRIX

		CONSEQUENCE (Severity)				
LIKELIHOOD (Probability)		Insignificant 1	Minor 2	Moderate 3	Major 4	Critical 5
		No treatment required.	Injury/illness requiring first aid treatment only.	Injury/illness requiring hospitalisation on going treatment.	Life-threatening injury/illness or multiple hospitalisations.	Death or multiple life-threatening injuries.
Almost certain 5	Expected to occur in most circumstances.	MEDIUM 5	HIGH 10	EXTREME 15	EXTREME 20	EXTREME 25
Likely 4	High probability of occurring in most circumstances.	MEDIUM 4	MEDIUM 8	HIGH 12	EXTREME 16	EXTREME 20
Possible 3	Might occur occasionally.	LOW 3	MEDIUM 6	HIGH 9	HIGH 12	EXTREME 15
Unlikely 2	Could occur at some time, doubtful.	LOW 2	MEDIUM 4	MEDIUM 6	MEDIUM 8	HIGH 10
Rare 1	May occur but only in exceptional circumstances.	LOW 1	LOW 2	LOW 3	MEDIUM 4	MEDIUM 5

Table 2: WHS Risk Evaluation FOR GENERAL CLIENTS

Risk level	Acceptability	Priority for action to control risk	Sign-Off Authority: Event Organiser	Sign-Off Authority: Other workplace
Low 1-3	Acceptable	PROCEED while monitoring existing controls. Manage the exposure to the hazard using existing procedures in consultation with workers and respond to any changes.	Event Manager or delegate	Immediate Supervisor or Workplace Manager
Medium 4-8	Tolerable	PROCEED with the activity and/or allow the hazard to persist only after identifying and implementing any additional controls reasonably practicable. Monitor all controls and manage the exposure to the hazard using existing procedures in consultation with workers and respond to any changes.	Event Manager or delegate	Senior Manager or Director
High 9-14	Unacceptable	DO NOT PROCEED and/or allow the hazard to persist until all risks/hazards are identified and the most effective control methods are documented in a risk assessment. Seek support from the WHS Safety Manager.	Event Manager to sign off. Event Manager to talk to staff about eliminating or reducing the risk, and contact: • Safety staff • Legal as required.	Executive Director or delegate to talk to staff about eliminating or reducing the risk and contact: • Safety Staff • Legal as required.
Extreme 15+	Unacceptable	STOP IMMEDIATELY and contact your WHS Safety Manager to plan a coordinated response in consultation with key subject matter experts to eliminate or control exposure to the hazard.	Event Manager to advise staff about eliminating or reducing the risk, and contact: • Safety Staff • Legal as required.	Executive Director or delegate to advise staff about eliminating or reducing the risk, and contact: • Safety Staff • Legal as required.

Table 3: WHS Risk Evaluation FOR NSW SCHOOLS

Risk level	Acceptability	Priority for action to control risk	Sign-Off Authority: Schools	Sign-Off Authority: Other workplace
Low 1-3	Acceptable	PROCEED while monitoring existing controls. Manage the exposure to the hazard using existing procedures in consultation with workers and respond to any changes.	School Principal or delegate	Immediate Supervisor or Workplace Manager
Medium 4-8	Tolerable	PROCEED with the activity and/or allow the hazard to persist only after identifying and implementing any additional controls reasonably practicable. Monitor all controls and manage the exposure to the hazard using existing procedures in consultation with workers and respond to any changes.	School Principal or delegate	Senior Manager or Director
High 9-14	Unacceptable	DO NOT PROCEED and/or allow the hazard to persist until all risks/hazards are identified and the most effective control methods are documented in a risk assessment. Seek support from the workplace manager and WHS Advisor or the Incident Report and Support Hotline.	Principal to sign off. Principal to talk to staff about eliminating or reducing the risk, and contact: - Health, Safety & Staff Wellbeing Directorate for review - Legal as required.	Executive Director or delegate to talk to staff about eliminating or reducing the risk and contact: - Health, Safety & Staff Wellbeing Directorate for review - Legal as required.
Extreme 15+	Unacceptable	STOP IMMEDIATELY and contact your WHS Advisor or the Incident Report and Support Hotline to plan a coordinated response in consultation with key subject matter experts to eliminate or control exposure to the hazard.	Principal to advise staff about eliminating or reducing the risk, and contact: - Director Educational Leadership for review - Health, Safety & Staff Wellbeing Directorate for review - Legal as required.	Executive Director or delegate to advise staff about eliminating or reducing the risk, and contact: - Health, Safety & Staff Wellbeing Directorate for review - Legal as required.

Hierarchy of controls

CONTROL	EFFECTIVENESS	DESCRIPTION	EXAMPLES
ELIMINATION	BEST	Eliminate the hazard entirely.	Eliminating the risk of a fall from height by doing the work at ground level.
SUBSTITUTION	VERY GOOD	Substitute the hazard with safer options.	Replacing hazardous cleaning chemicals with equivalent non-toxic products.
ISOLATION	GOOD	Isolate the hazard from causing harm.	Placing a barrier around an area of wet floor as a slipping hazard.
ENGINEERING	GOOD	Use engineering controls to reduce the risk.	Installing guards, rails, or handrails to prevent falls.
ADMINISTRATIVE	POOR	Administrate and document safe work practices.	Training workers in safe work procedures, Safe Operating Procedures.
PPE	WORST	Protect workers with Personal Protective Equipment (PPE).	Providing goggles and gloves to people handling hazardous chemicals.

JUMPING CASTLES – examples



Dissemination and Acknowledgement by staff/competent person:

I have read and fully understand the procedures and safety requirements of this document. I understand that I have a responsibility to myself and others to maintain a safe work environment.

NAME	POSITION	SIGNATURE	DATE