

2 Risk Assessment: DSG Adventures Ltd @ Dragon Raiders, Criccieth Gwynedd, North Wales, LL52 OLR.

Sheet 1 of 10

RISK ASSESSMENT ON:

Bear Grylls Adventure Experience at Dragon Raiders Activity Park.

Name: Andrew Evans

Position: Safety
Consultant

Date: 09/04/2014

Persons Affected;



Employees



Contractors



Public

To be issued to:

All Employees-Contractors-Visitors-Guides

DSG Adventures Ltd fully indemnify SIS of responsibility for all hazards and possible risks mentioned in this document.

Dragon Raiders have the overall responsibility for ensuring risk assessment are suitable and sufficient for the tasks required and to be undertaken.

Due to the nature of the activity some risks and hazards are unavoidable in certain circumstances which is classified as valenti non fit injura-risk willingly taken by the participants.

All participants are required to fill out the pre start documentation/attend the safety induction and are to sign the indemnity waver/disclaimer prior to undertaking this activity.

SEVERITY		LIKELIHOOD
No Injury	1	Almost Never
Minor Injury	2	Seldom
>3 day Injury	3	Possible
Major Injury	4	Probable
Death	5	Frequently

S	Severity
L	Likelihood
R	Result

Risk Assessment Matrix

X	5	4	3	2	1
5	25	20	15	10	5
4	20	16	12	8	4
3	15	12	9	6	3
2	10	8	6	4	2
1	5	4	3	2	1

No.	Hazard Severity	Risk Likelihood	Risk			Control Measure	Risk		
			S	L	R		S	L	R
1.	Uneven/Boggy ground and Rough terrain conditions	Slips, Trips and Falls resulting in possible sprains/sprains and broken bones	4	4	16	<p>All persons taking part are pre warned to wear suitable and sufficient footwear for the activity.</p> <p>The pathways are roughly marked out and will be inspected for any major hazards on a daily basis.</p> <p>Persons taking part in the activity are informed during the pre-start safety induction to stay within the designated areas as marked out by black and yellow barrier tape.</p> <p>Protective equipment to be worn at all times during the activity once issued prior to starting the course.</p>	4	3	12

Residual Risks	Additional Control Measures	Action Plan
Excessively boggy ground due to certain weather conditions.	Instructors to gauge ground conditions throughout the activity and prior to starting.	Daily inspections

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
2.	Severe/Inclement Weather conditions	Increase in potential slips/trips and falls from boggy ground, high winds Overflowing Streams and Frozen ground	4	3	12	Instructors to gauge weather conditions throughout the activity and have the responsibility to cease the activity become unsafe for participants.	4	2	8
3.	Unstable/ fallen trees	Blocking of designated pathways/routes Potential crush injuries	3	3	9	Regular inspections of the surrounding trees are to be inspected for their stability and are to be removed/cut down Daily inspections of the course are to be carried out prior to any activities taking place.	3	2	6

Residual Risks	Additional Control Measures	Action Plan
Streams overflowing onto course	Daily inspections and weather checks to be carried out prior to activity commencing	Ongoing
	Ongoing maintenance of the course and specific areas.	Daily inspections

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
4.	Setting fires in outdoor environments using the Bear Grylls knife/Flint knife techniques.	Burns Cuts Puncture wounds Fires becoming uncontrolled and spreading	5	4	20	Instructor to show all participants the safe use and correct techniques when starting fires handling of flint/knife outdoors. Participants to be observed at all times whilst carrying out techniques. Fires are only to be set on specific gravelled areas during the activity as to prevent fire spreading. Participants will be igniting cotton wool balls to learn techniques not starting full-fledged fires from wood/leaves etc. Instructors are always to have a source of extinguishing any potential out of control fires by using a suitable/sufficient means such as a water/foam extinguisher, a bucket of water etc.	5	2	10

Residual Risks	Additional Control Measures	Action Plan
Cuts caused by wet handles and or inexperienced persons handling the knife. (valenti non fit injura)-risk willingly taken.	Any persons under the age of 18 are to be supervised by an adult whilst carrying out techniques and handling knife. Knives/flint to be issued by the instructor and collected in on completion of the activity. All instructors are fully trained/qualified in First Aid.	Monitoring by instructors.

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
5.	Crawling and climbing over and under natural obstacle course of trees/vines and bushes.	Slips Trips Falls Cuts Bruises Head injuries Entanglement	3	5	15	<p>All participants to wear the correct P.P.E. including gloves, goggles and safety helmet during the activity which will be issued prior to commencing.</p> <p>Participants advised prior to attending to bring/ wear suitable and sufficient footwear for the activities required.</p> <p>All participants for warned during the safety induction and prior to starting the course of the physical demands upon the body and a good level of fitness required.</p> <p>This is not to be a timed course and it will be explained to delegates not to rush/run through this part of the course.</p>	3	3	9

Residual Risks	Additional Control Measures	Action Plan
<p>Potential entanglement in the Vines/Wood.</p> <p>(valenti non fit injura)-risk willingly taken.</p>	<p>Participants to be advised to have an upto date tetanus jab prior to carrying out activities.</p> <p>Instructors have a side view of the easiest route through the course and are on hand for any potential issues.</p>	<p>Daily inspections</p> <p>Monitoring by instructors</p>

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
6.	Shelter building	Cuts Scrapes Abrasions Splinters Eye injuries	3	3	9	All materials for the shelter building are pre-cut and available for the participants so no knife/axe work required and no cutting of any materials Techniques for shelter building to be shown by the instructor and participants to be monitored during this activity	3	2	6
7.	Becoming lost/Disorientated walking out of designated areas	Various potential injuries from other activities.	4	4	16	All participants to be monitored in set manageable sized groups for the instructor. Designated activity areas are indicated by black and yellow safety tape which is explained to participants. The Activity is separate from all other activities in both space and time so no clashes should occur.	4	3	12

Residual Risks	Additional Control Measures	Action Plan
(valenti non fit injura)-risk willingly taken.	All appropriate P.P.E. that is issued to participants to be worn at all times during this activity. Regular inspections to be carried out on materials to ensure that they are suitable and sufficient.	Continuous monitoring
(valenti non fit injura)-risk willingly taken.	For persons under the age of 18 possible additional supervision would be required during the activity.	Set groups Continuous Monitoring

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
8.	Rope Climbing and Crawling activity	Falls Head injuries Broken bones Sprains/Strains Rope burns Falling into shallow stream	5	4	20	<p>All participants are shown the correct technique for crawling by the instructor and opportunity to practice on 2 low sets of ropes (Appox 1meter off the ground)</p> <p>All ropes used during the activity and the tying techniques were taken under advice from a specialist (ERCA)</p> <p>The height of the ropes to be crawled to the water below and the start and finish pontoon/bridges are not to exceed 1.8 meters off the ground.</p> <p>All participants are to be closely watched when carrying out this activity by the instructor.</p> <p>Streams to be checked daily for any debris, fallen branches or other potential hazards..</p>	5	3	15

Residual Risks	Additional Control Measures	Action Plan
Stream over flowing in adverse weather (valenti non fit injura)-risk willingly taken.	<p>This particular activity will be reviewed during weather conditions.</p> <p>2 separate rope climbs which are available.</p> <p>For Participants under 18 years of age will only be allowed to do the lower rope climb over the stream.</p> <p>The stream is a slow running low level water body approx. 1.5ft deep.</p> <p>Additional supervision for under 18` s.</p>	<p>Daily inspections</p> <p>Monitoring by instructors</p>

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
9.	Drinking impure water Drinking Nettle Tea Foraging for food	Infectious diseases Viral and bacterial infections Allergic reactions Poisonous foods	5	4	20	<p>Only the qualified instructor to show the participants the set water purification techniques such as boiling water and the use of iodine tablets.</p> <p>Instructors to review and monitor which water sources are used.</p> <p>Good hygiene techniques to be followed by participants and instructors as much as reasonably practicable in this situation.</p> <p>No Mushrooms to be used/eaten</p> <p>Instructors to indicate safe and unsafe foods for consumption in these situations.</p> <p>Participants shall have the overall responsibility and decision for if they wish to consume water and seasonal forageable foods including berries etc.</p>	5	3	15

Residual Risks	Additional Control Measures	Action Plan
<p>Allergic reactions</p> <p>(valenti non fit injura)-risk willingly taken.</p>	<p>Instructor to ensure only the correct plants/berries etc is used during the brewing and eating</p> <p>Participants to be made aware prior to starting the activity of the potential risks of foraging.</p> <p>Participants have their own responsibility to be aware if they have any potential allergies.</p>	<p>Monitoring by instructors</p> <p>Instructors to have specialised training or experience for this activity</p>

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
10.	Balance Beams/Trees to cross over small streams (approx. 4ft wide,2ft deep)	Slips/Trips/Falls resulting in possible sprains strains and broken bones. Possible puncture injuries from debris. Possible broken bones.	4	4	16	Suitable and sufficient foot wear to be worn by all participants during this activity. This activity will be continuously monitored by the tutor for changes in weather conditions or stream becoming too high and overflowing. Issued P.P.E. to be worn at all times during this activity. Daily checks for debris and fallen items in these areas of the streams. Emergency rescue plan in place, Stretchers available and tutors aware of closest emergency vehicle access point.	4	3	12

Residual Risks	Additional Control Measures	Action Plan
Stream over flowing/rising water level. Infections from water Bourne diseases	All under 18`s to be monitored by an adult during this activity	Daily inspections. Continuous monitoring.

No.	Hazard Severity	Risk Likelihood	S	L	R	Control Measure	S	L	R
11.	Walking/Wading through Streams	<p>Ankle injuries including sprains and strains.</p> <p>Possible broken bones</p> <p>Possible drowning</p> <p>Cuts and abrasions from objects in the stream.</p>	4	3	12	<p>This activity will be continuously monitored by the tutor for changes in weather conditions or stream becoming too high and overflowing in this circumstance an alternate route will be used.</p> <p>Suitable and sufficient foot wear to be worn by all participants during this activity.</p> <p>Issued P.P.E. to be worn at all times during this activity.</p> <p>Daily checks for debris and fallen items in these areas of the streams.</p> <p>Emergency rescue plan in place, Stretchers available and tutors aware of closest emergency vehicle access point.</p>	4	2	8

Residual Risks	Additional Control Measures	Action Plan
<p>Stream over flowing/rising water level</p> <p>Infections from water Bourne diseases</p>	<p>Emergency rescue plan in place, Stretchers available and tutors aware of closest emergency vehicle access point.</p> <p>Participants to be advised to have an up to date tetanus jab prior to carrying out activities.</p> <p>Instructors have a side view of the easiest route through the course and are on hand for any potential issues.</p>	<p>Daily inspections.</p> <p>Continuous monitoring</p>