

# RISK ASSESSMENT FOR GO APE, ADVENTURE FOREST LIMITED



**SUBJECT:** Mini Land Rover

**RISK ASSESSMENT REF:** ML03/2023 V2







**WRITTEN BY:** LP/MR and Health and Safety Team

Risk Matrix								
Risk rating guidance	Likelihood (L)	5	5	10	15	20	25	Likelihood (L) x Severity (S) = Risk Rating (RR).
		4	4	8	12	16	20	
		3	3	6	9	12	15	
		2	2	4	6	8	10	
		1	1	2	3	4	5	
				1	2	3	4	
		Severity (S)						
Acceptability of risk guidance	<b>High-risk: 15 – 25</b>		High-risk activities should cease immediately. Further effective control measures to mitigate risks must be introduced.					
	<b>Medium-risk: 8 – 12</b>		Medium-risks are an acceptable level based on the reduced likelihood after sufficient control measures are implemented.					
	<b>Low-risk: 1-6</b>		Low-risks are largely acceptable. Where it is reasonable to do so, efforts should be made to reduce risks further.					
Guidance. When completing a risk assessment, you should:	<ol style="list-style-type: none"> <li>Identify the persons at risk and the significant hazards.</li> <li>Calculate an initial RR for the activity.</li> <li>Identify risk control measures that reduce the risks to an acceptable level.</li> <li>Calculate a revised RR - you should consider how much safer the task will be if the control measures are followed. Here, you should consider changing both the likelihood (L) and the severity (S) ratings.</li> </ol>							
<b>Note.</b> Ideally, you should look to reduce the risks so that the task can be classified as “low-risk”.								

Likelihood	Definition	Points rating
<b>Inevitable</b>	If the work continues as it is, there is almost 100% certainty that an accident will happen, for examples: A broken stair or broken rung on a ladder, Bare, exposed electrical conductors, Unstable stacks of heavy boxes	<b>5</b>
<b>Highly likely</b>	Will happen more often than not. Additional factors could precipitate an incident, but it is still likely to happen without this additional factor.	<b>4</b>
<b>Possible</b>	The accident may occur if additional factors precipitate it, but it is unlikely to happen without them.	<b>3</b>
<b>Unlikely</b>	This incident or illness might occur, but the probability is low and the risk minimal.	<b>2</b>
<b>Remote possibility</b>	There is no risk present. Only under freak conditions could there be any possibility of an accident or illness. All reasonable precautions have been taken - This should be the normal state of the workplace.	<b>1</b>

Severity	Definition	Points rating
<b>Very high</b>	Causing multiple deaths and widespread destruction e.g. fire, course/building collapse.	<b>5</b>
<b>High</b>	Causing death, serious injury or permanent disability to an individual.	<b>4</b>
<b>Moderate</b>	Temporary disability causing injury (to a member of the public, contractor or employees) or disease capable of keeping an employee off work for seven days or more and reportable under RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995).	<b>3</b>
<b>Slight</b>	Minor injury (to a member of the public, contractor or employee), which would allow the individual to continue work after first aid treatment on-site or at a local surgery. The duration of the stoppage or treatment is such that the normal flow of work is not seriously interrupted.	<b>2</b>
<b>Nil</b>	Very minor injury, bruise, graze, no risk of disease.	<b>1</b>



Personal protective equipment (PPE) assessment								
Type of PPE:								
	Head	Foot	Eye	Hand	Hearing	Hi-Visibility Vest	PPE	Fall Arrest

SER	HAZARD	L	S	RR	WHO MIGHT BE HARMED	CONTROL MEASURES	FURTHER CONTROL MEASURES: reviewed annually to formulate Risk Reduction Plan	L	S	R
01	Injury through manual handling of Mini Land Rover	3	4	12	Staff/ Customers	<p>Follow manual handling guidance given during training.</p> <p>Mini land rovers will not be lifted fully. If having to be lifted by front or rear bumper to remove an obstacle this should be carried out by 2 people minimum.</p> <p>Avoid lifting or moving mini land rovers by adapting site operations. There will be a ramp into the storage area to avoid the necessity to lift the vehicle.</p> <p>Supervisors will also be reminded to not attempt to lift the vehicle by themselves but to seek instructor assistance should the vehicle get stuck following a collision (as set out in safety rules and advice given)</p>		1	4	4
	Incorrect use of the vehicles	3	3	9	Staff/ Customers	<p><b>Access restrictions and ratios</b> Participants must weigh no more than a combined 130kg (following manufacturers guidelines).</p> <p>Participants driving the vehicles must be between the ages of &lt; 17yrs old, and always have the supervising adult</p>		1	3	3



						<p>accompany the vehicle either within or alongside the vehicle in question. Children must be able to walk and sit unaided.</p> <p>Children &lt; 5 yrs old must be accompanied in the car by supervising adult (maximum weight limit of 130KG per vehicle)</p> <p>Supervisors of 6-17 yr olds must accompany the vehicle round the track in visual contact.</p>				
02	<p><b>Mini Land rovers fail to function as expected.</b></p> <p><b>Mini Land rover will not function as expected if:</b></p> <ul style="list-style-type: none"> <li>• <b>Mini Land Rover is not correctly maintained</b></li> <li>• <b>The vehicle is driven with insufficient power/charge in the battery</b></li> <li>• <b>Driver/Drivers are too heavy</b></li> <li>• <b>Wheels lose traction on the ground</b></li> </ul>	3	3	9	Staff/Customers	<p>Participants should weigh no more than a combined 130kg (following manufacturers guidelines) and follow the ratios as advised.</p> <p>Instructors will be trained in how to drive the Mini Land Rovers following manufacturer's instructions (these will be included in the training package, safety rules and advice).</p> <p>Safety rules will be provided for all customers following the above.</p> <p>Vehicles will not be driven where the surface conditions are judged to potentially cause the vehicle to lose traction.</p>		1	3	3
03	<p><b>Mini Land rovers colliding with a participant, forest</b></p>	3	3	9	Staff/Customers/ Member of public	<p>Following safety rules only participants and supervising adults deemed competent will be allowed out onto the track.</p>		1	3	3



	<b>user, or obstacle on the track.</b>				<p>The focus will be on the supervising adult's ability to assist with steering and halt the vehicle to prevent a collision with participant and obstacle.</p> <p>Tracks will be kept away from existing footpaths and trails to avoid any forest users walking onto the track. Signage will be installed accordingly to direct forest users away from the track. Supervisors will be instructed to be aware of any potential forest users unwittingly entering the track and to use the kill switch to stop any potential collision or crash occurring.</p> <p>All trails are one way and will be signposted to that effect.</p> <p>Obstacles will be designed to be a very low impact if collided with. Supervisors will be shown how to engage reverse should the need arise following a minor collision with an obstacle.</p> <p>When moving units on multi use trails ( from storage to charging and return to trails) drivers should give way to other forest users and drive on the left of the trail. Only to be driven on the agreed route between storage/charging/operating.</p> <p>Supervisors will also be reminded to not attempt to lift the vehicle by themselves but to seek instructor assistance should the vehicle get stuck following a collision (as set out in safety rules and advice given)</p>				
04	<b>Falling from a Mini Land rover</b>  <b>Mini Land rovers are safe and stable when driven</b>	3	3	9	Staff/Customers	<p>Mini Land rovers will only be driven by those trained to do so by an instructor.</p> <p>Vehicles will be driven with direct supervision from the supervising adult at all times.</p>	1	3	3



	<p>correctly. Falls may result from:</p> <ul style="list-style-type: none"> <li>• Riding off designated trails</li> <li>• The incorrect seated driving position</li> <li>• Not following instructions given</li> <li>• Collisions with obstacles on the track</li> </ul>					<p>The track will be designed so that the Mini Land Rovers are only driven on appropriate surfaces and over suitable obstacles.</p> <p>Correct driving procedures and techniques covered in safety rules should always be followed and observed</p> <p>If a driver or supervisor requires assistance, they should alert an instructor, via the whistle attached to the kill switch with the supervisor.</p>				
05	<p><b>Moving Batteries</b></p> <ul style="list-style-type: none"> <li>• Lifting batteries out of the cars to charge overnight</li> </ul>	3	3	9	Staff	<p>Lithium batteries installed in the car are quite heavy. Staff will be instructed to follow manual handling guidance when removing the batteries from the car. Cars should be off and stationary to avoid any additional risk or injury arising from battery removal.</p> <p>Batteries will be transferred to and charged in, the cabin overnight. Transfer of the batteries will be done via wheelbarrow. Staff should follow manual handling guidance when using a wheelbarrow and should carry a maximum of 4 batteries in any one wheelbarrow.</p>	.	1	3	3
06	<p><b>Electrical Risk</b></p> <ul style="list-style-type: none"> <li>• Electrical sockets inside the cabin/container.</li> <li>• Plugging in Land Rover</li> </ul>	3	4	12	Staff	<p>Training (on-line and practical)</p> <p>Land Rover unit end of cable to be inserted and removed first</p> <p>Wall socket end of cable must be inserted and removed last</p> <p>Cables only to be inserted and removed whilst</p>		1	4	4



	<ul style="list-style-type: none"><li>• <b>Unplugging Land Rover</b></li><li>• <b>Moisture</b></li><li>• <b>Electrical fire</b></li><li>• <b>Faulty Cables</b></li><li>• <b>Trailing cables trip hazard</b></li></ul>				<p>socket is switched off</p> <p>All plugs/sockets should be dried before use</p> <p>No charging tasks should be undertaken with wet Hands</p> <p>Instructors trained to remove cables by holding the plug and not the cable to avoid damage.</p> <p>Units must never be moved when plugged in.</p> <p>Cables visually inspected daily as part of the closedown checks.</p> <p>Any faulty cables to be discarded immediately. A stock of spare cables to be held at site.</p> <p>Any Land Rover site to hold a copy of INDG231 HSE leaflet electricity and you. All instructors to read</p> <p>Electrical spec fire extinguishers are present in the cabin</p> <p>All training cables to be matted over or signed accordingly</p>			
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	<b>Slips and trips and uneven ground</b>	2	3	6	Staff/ Customers	<ul style="list-style-type: none"> <li>• Woodland trails</li> <li>• Surfaces reviewed and adjusted at start of the day. Following pre-opening inspection</li> <li>• Customer advice on uneven surfaces and remaining aware of surroundings given pre activity</li> </ul>		1	3	3

Refs  
HSE Information Sheet Entertainment Sheet No 14  
HSE 5 Steps to Risk assessment INDG 163  
HSE A Guide to Risk Assessment requirements INDG 218  
HSE Electricity and You INDG213  
Go Ape Generic Risk Assessments