

Contingency Plan

Ensure safety at the scene of an accident

1. In the event of an accident to passengers (Based off of the severity, circumstances, and location)

1. Gather an adequate understanding of the situation. This includes surroundings, more potential hazards, and immediate condition of the victim.
2. Take control of the situation. Immediately move other clients away from the hazard to a temporary safe area before proceeding.
3. If the incident is severe, call 112 with location and description. If no phone signal, radio headquarters to call and relay details. Severe incidents include not being able to evacuate the area with only your assistance and/or life threatening, time sensitive situations.
4. If you have access to the victim, immediately apply any first aid needed and/or cover the client with proper emergency clothing to prevent hypothermia.
5. If the victim has fallen into a crevasse or moulin, perform a crevasse rescue to secure and then perform step 4.
6. Once secured, prepare for the arrival of a relief team. Radio other guides in the area to come for assistance with victims and remaining clients.
7. Support the relief team in any way possible upon arrival.

When the injured have been transported away one can consider another

- Report the incident to your supervisor (if not done already)
- Caring for passengers - Assess if your clients are psychologically able/wanting to continue the tour.
- Evaluate the continuation of the trip
- Make an incident report
- Make sure any police reports needed are taken care of.
- Resolve any reparations to clients after safely making it back to base camp.

EMERGENCY NUMBERS AND KEY PARTIES

Mike Reid (Lead Guide) 784-5979

Ryan Newburn (Manager of Operations) 767-0841

Emergency Services- 112

Vatnajökull National Park Services- 575-8400

2. If not an accident to passengers (self, etc.)

- Make sure you are secure and then your clients.
- Apply any first aid needed to self.
- Call 112 or radio for help if needed.
- Report the incident to your supervisor
- Caring for passengers - Assess if your clients are psychologically able/wanting to continue the tour.
- Evaluate the continuation of the trip. Assess if you are fit to safely guide the tour.
- Make an incident report

Atvikaskýrsla

Ath. Best er að vista
eyðublaðið á eigin tölvu
áður en útfylling hefst.

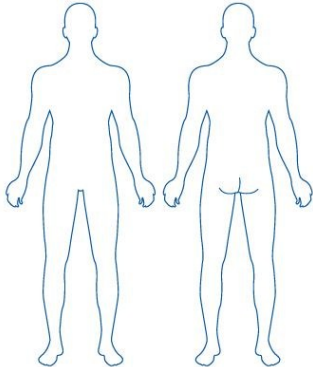
1. Almennar upplýsingar

Alvarleiki atviks: Slys _____	“Næstum því” slys _____	Annað: _____	
Tímasetning atviks: _____	Skráð af: _____	Stjórnandi ferðar: _____	Nafn ferðar: _____
Staðsetning atviks: _____	GPS hnit: N _____	og V _____	
Lýsing á atviki: 			
Til hvaða aðgerða greip stjórnandi: 			

2. Persónulegar upplýsingar

athugið að nota skal eitt eyðublað á hvern einstakling

Nafn farþega: _____	Sími: _____	Netfang: _____
Lýsing á áverka: 		
Merkið inn á teikninguna staðsetningu á áverkum		
Var viðkomandi fluttur á sjúkrahús. Já _____ Nei _____ Hafnað af viðskiptavini _____		
Fluttur með sjúkrabíl. Já _____ Nei _____ Fluttur hvernig _____		
Lögregla kölluð til. Já _____ Nei _____		
Aðrir viðbragðsaðilar, hverjir:		



3. Farþegar

Þurftu aðrir farþegar á áfallahjálp að halda? Já _____ Nei _____			
Var áfallahjálp boðin fram? Já _____ Nei _____ Farþegar afþökkuðu _____			
Aðrar ráðstafanir gerðar varðandi farþega:			
Sjónarvottar að atviki:			
Nafn: _____	Sími: _____	Netfang: _____	Þjóðerni: _____
Nafn: _____	Sími: _____	Netfang: _____	Þjóðerni: _____
Nafn: _____	Sími: _____	Netfang: _____	Þjóðerni: _____
Nafn: _____	Sími: _____	Netfang: _____	Þjóðerni: _____

4. Stjórnun

Stjórnanda fyrirtækis tilkynnt? Hverjum? _____

Tímasetning tilkynningar _____

Tryggingarfélagi tilkynnt um atvikið? Já _____ Nei _____

Annað sem þarf að koma fram:

Undirskrift þess er skýrslu ritaði

Undirskrift stjórnanda ferðar ef annar

Aðgerðir sem gripið var til í framhaldi af atviki ef einhverjar:

Procedure Plan for “Alpine Summit Expedition”

Guides requirements for operation of tour:

- **AIMG Fjalla 2**
- **AIMG Hard Ice 3**
- **Avalanche Certification**
- **Have a strong recreational mountaineering background with previous experience guiding alpine summits in Iceland**
- **Have a valid Wilderness First Responder (or similar)**
- **Awareness of Tetra / VHF / InReach**

For the “Alpine Summit Expedition” the guide needs to have finished AIMG Fjalla 2 and possess all the fundamental knowledge about managing risk according to the standards of Félag fjallaleiðsögumanna á Íslandi. It is expected that the guide has experience guiding in the alpine prior to guiding tours as an alpine guide for Ice Journey.

As noted above and by the recent incidents with other companies on the way to Iceland's tallest summit, taking guests in the alpine is a very serious venture. We, at Ice Journey therefore choose to have the most highly certified guide do so, that being a guide which also possesses AIMG Hard Ice 3. This will ensure that the rope work of the guide is of the highest quality should a guest fall into a crevasse or need some type of rope support. The guide needs to possess all the fundamental knowledge about managing risk according to the 4 areas as noted in the AIMG (Félag fjallaleiðsögumanna á Íslandi) “Terrain Assessment” guide: safe and easy, safe and difficult, exposed and easy, exposed and difficult. Techniques include single screw belay, hand and hip belay, fixed lines and lowers should be in the guides working knowledge.

It is expected that the guide possesses some type of avalanche certification (AST 1 or 2 / CAA Pro 1, or similar) and be able to travel safely in avalanche terrain. This, along with a strong understanding of weather conditions, will ensure the guide is making the best decisions possible when taking clients into the alpine.

The guide must have a strong recreational mountaineering background as this ensures that the methods and techniques required are part of the guide's scope of knowledge. It will be requested of the guide to provide a resume of Icelandic peaks (and international if applicable) to ensure this standard is met.

The guide must possess a minimum of a Wilderness First Responder (or similar certification). Due to the very demanding nature of the tour and potential for injury, it is of the utmost importance that the guide is able to handle injuries that could occur during the tour and do so independently, as the climbing locations are often a fair distance away from the parking lot.

The guide must possess a working knowledge of both a Tetra and VHF radio as well as a Garmin InReach. These devices may be used during the tour to communicate with the Lead

Guide in case of emergencies.

Guide/guest ratio:

The guide / guest ratio is 1:6 for the “Alpine Summit Expedition”. This is because of the sometimes difficult nature of alpine summit attempts and the risk associated with having too many clients on a rope team.

Description for Alpine Summit Expedition

Getting the chance to stand on top of Iceland's tallest peak, Hvannadalshnúkur, or its little brother Hróttfjallstindar, is an experience of a lifetime.

Prior to the tour you will have a meeting with your guide to inform you about the itinerary for the day as well as safety measures taken during the tour. This will be a great time to ask any questions you have about the tour.

On the day of the tour, we will start bright and early at 4:00am and take either the sandfell route or Hafrafell route depending on the summit we choose to ascend. We will make sure to stop every hour for some food and water until we reach the base of the summit.

We will slowly ascend to the top of our alpine summit to take in the majestic views that vatnajökull has to offer.

Equipment list for the guests: Sharpened 10-point crampons, headlamp (if needed), harness, helmet, hiking axe, and boots if needed

Guides Equipment List

- 35-40 liter mountaineering backpack
- Tetra / VHF radio or similar
- 40m static single rope
- Snow picket x2
- Guide ice axe (Stubai or hybrid)
- Fully stiff mountaineering boots
- 12-point crampons (Grivel G12 or Similar)
- Sunscreen and Glacier Glasses (extra pair for clients)
- Gloves (multiple pairs including extra for clients)
- Extra puffy insulating jacket for clients
- Goretex Rain Jacket
- Crampon repair kit (zip ties, multi tool, center bar adjustment tool)
- GPS (can be watch) + standard track
- Steel triple action carabiner for focal point
- Guides Gear: 8 carabiners (6 locking, 1 non locking and 1 triple action), 5m of 7mm prusik, 1.5m of 7mm prusik, PCD (Micro Traxion or Roll N Lock), 120 Sling

- First Aid Kit: The kit would contain the required gear to stop bleeding and tend to minor injuries. This would include a blister kit.
- Emergency shelter

Preparation before the trip:

Guide will receive booking and send relevant info about tour to clients including environmental policy and "Icelandic Pledge"

3-4 days prior to the trip the guide would monitor the weather and pressure trends in the Atlantic ocean for possible low pressure systems. If weather concerns are present, the guide would inform clients and make the necessary arrangements to reschedule the tour or cancel if possible.

1-2 days prior to the start of the trip, the guide will go on a zoom call with the clients to discuss the specifics of the tour and answer any questions the clients may have.

Guide does a personal gear check to make sure they have all gear listed above in the equipment list and all gear is in good condition.

Guide reviews procedures for tour and tour objectives.

Guide speaks with other alpine guides about crevasse conditions.

Beginning of the Tour

At about 3:00am, Guide starts the day of the tour with weather analysis from vedur.is for Wind/Temp/Precip to ensure good weather conditions will be present.

Guide arrives at the meeting location 30 minutes early to welcome clients and gear them up. The clients will be provided with harnesses, helmets, boots (if necessary) and ice axes. Guide will discuss our environmental policy and the Icelandic Pledge with the clients.

During the Tour

Guide and clients will walk up to the snow line while making sure to keep a slow and steady pace. Guide will ensure they are covering about 300 meters per hour.

When the team arrives at the beginning of the glacier, the guide will assemble the rope team and inform them how to walk properly on a rope team (keeping line tight). Guide will also inform them what to do if the guide were to fall into crevasse (wait and keep rope tight). Guide will decide if crampons are necessary based on snow conditions. Also, at this time, the guide will check in with the co-owner of Ice Journey, Ryan Newburn, to let him know they are on-glacier.

**Ryan will also be updating the team with any weather updates as necessary*

Guide and client will begin the ascent to the chosen alpine summit. The guide will ensure adequate stops are taken and clients are hydrated and have had snacks.

If and when the guide approaches crevasse, the guide will take time to assess the condition and decide if jumping over is possible or maybe an end-run is necessary for the safety of the clients.

Guide will continue to monitor vertical progress and if under 300m per hour, will inform the clients that they may have to return.

Guide will continue to bring the clients to the summit in preparation for a successful summit attempt.

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After the Tour

Guide will ensure they collect all gear and ask for verbal feedback from the client

Guide will review some key facts about the tour and inform them that an email will come with more info as well as a request for a review.

Guide will ensure clients do not have any questions before they depart.

Guide will log tour and inform manager of outcome of tour and any feedback received from client

Special Considerations

When doing alpine summits, the weather can change quickly, which is why it's important to receive weather updates via a basecamp team. Also, if the clients are not making adequate progress (300m per hour) then they must be informed that the team may have to turn around due to safety concerns of exhaustion.

If an incident occurs, take note of the emergency response plan and act accordingly.

Procedure Plan for Glacier Hike and Photo Tour

Guides requirements for operation of tour:

- **AIMG Hard Ice 1 (with approval of Lead Guide)**
- **Possess a D1 driving license according to Icelandic Standards**
- **Have experience with professional photography and able to demonstrate via website, social media, etc**
- **Have a valid First Aid certification**
- **Awareness of Tetra / VHF / InReach**

For the “Glacier Hike and Photo Tour” the guide needs to have finished at least AIMG Hard Ice 1 and having been approved for the tour by the Lead Guide (AIMG Hard Ice 3 / Mountain 2) to operate the tour. This guide should possess all the fundamental knowledge of managing risk and client expectations, as discussed on AIMG Hard Ice 1.

In order to transport the clients the guide must possess a D1 license, which allows transport of passengers in a larger mini-van or small bus. The guide also needs to possess a taxi endorsement as this is required in regards to driving passengers for compensation according to Icelandic law.

The guide must have experience as a professional photographer and be able to demonstrate this with previous work. This is imperative as our clients expect professionally edited photos as a main component part of the tour package. Also, along these lines, the guide must show proficiency at editing photos with a software of their choosing.

The guide must possess a minimum of a basic First Aid certification. We want to make sure the guide can handle any basic medical situations that may arise. The Lead Guide must possess a Wilderness First responder or equivalent and be available to the guide on the tour via radio / phone communication.

The guide must possess a working knowledge of both a Tetra and VHF radio as well as a Garmin InReach. These devices may be used during the tour to communicate with the Lead Guide in case of emergencies.

Guide/guest ratio:

The guide / guest ratio is 1:10 for a standard tour package. If the guests book a private tour, it would be the number of guests in the given group. In regards to the larger 1:10 ratio, this is done on a glacier like Falljokull where hazard management is relatively straightforward. If the tour is done on a different glacier, the guide to client ratio would decrease accordingly. Also, in the case of a change of glacier, the Lead Guide would discuss the objective hazards of the glacier with the guide and help make the appropriate decision regarding the ratio.

Description for Glacier Walk and Photo Tour:

We start all tours with a briefing of the day's itinerary with the client. Next, we will drive to an outlet glacier of the guides choosing based on safety and accessibility. After a hike through the glacial tundra, we will arrive at the edge of the glacier where the guide will assist in putting the client's gear on and going over safety on the ice. Geared up, we trek onto the ice and into crevasses and ice caves as we make our way up the glacier. Throughout this process, the guide leads clients to safe spots on the ice where they will be photographed using the guide's camera equipment. As the guide runs the tour, they educate the client about the history and science of the glaciers and Vatnajökull National Park. After successfully reaching a catered high point based on the fitness of the clients, the guide will lead the clients slowly down the glacier to safety, where they will take off all equipment and hike back to the vehicle where the tour finishes. All photos are delivered within the week to the client via Google Drive.

Equipment list for the guests: Sharpened 10-point crampons, headlamp (if needed), harness, helmet, hiking axe, and boots if needed

Link to the tour:

<https://icepicjourneys.is/glacier-ice-cave-photo-hike/>

Guide's equipment list:

- 35-40 liter mountaineering backpack
- Full Frame DSLR Camera with prime lens and zoom lens
- Tetra / VHF radio or similar
- 40m static single rope
- Guide ice axe (Stubai or hybrid)
- Fully stiff mountaineering boots
- 12-point crampons (Grivel G12 or Similar)
- Sunscreen and Glacier Glasses (extra pair for clients)
- Gloves (multiple pairs including extra for clients)
- Extra puffy insulating jacket for clients
- Crampon repair kit (zip ties, multi tool, center bar adjustment tool)
- GPS (can be watch) + standard track
- Guides Gear: 8 carabiners (6 locking, 1 non locking and 1 triple action), 5m of 7mm prussic, 1.5m of 7mm prussic, PCD (Micro Traxion or Roll N Lock), 120 Sling
- First Aid Kit: The kit would contain the required gear to stop bleeding and tend to minor injuries. This would include a blister kit.

Preparation before the trip:

Guide will receive booking and send relevant info about tour to clients including environmental policy and "icelandic Pledge"

1-2 days prior to the start of the trip, the guide would monitor the weather and pressure trends in the Atlantic ocean for possible low pressure systems. If weather concerns are present, the guide would inform clients. If concern is serious (over 15mps of wind or 3-5mm/hr of rain) the guide would postpone or cancel the tour with discussion from the lead guide.

Guide confirmed with clients if they need to rent any gear (like boots).

Guide does a personal gear check to make sure they have all gear listed above in the equipment list and all gear is in good condition.

Guide reviews procedures for tour and tour objectives.

Guide reviews areas on the glacier which he/she intends to take clients and makes appropriate itinerary for the tour. Guide will also review and discuss the photo package the client booked for the tour.

Beginning of the Tour

Guide starts the day of the tour with weather analysis from vedur.is for Wind/Temp/Precip and informs clients of potential weather concerns and informs clients about clothing.

Guide arrives at the meeting location 30 minutes early to welcome clients and gear them up. The clients will be provided with harnesses, helmets and boots.

Guide will meet the client in either Freysnes or the parking lot of Falljokull. At this time the guide will review the tour with the client going over the objectives for the day. Guide will discuss our environmental policy and the Icelandic Pledge with the clients.

Clients will be informed of the goal for the day and time frame in which we hope to accomplish the tour objectives. Guide also discusses any objective hazards with clients (moulin danger, hard winter ice)

The guide will review all the gear required for the tour and provide them any gear they rented for the tour.

Guide will let them know that they will be following the guide to the Falljokull parking lot.

During the Tour

Guide and clients walk to the terminus of the glacier via the rock path from Falljokull parking lot.

Guide will ensure to make adequate information stops to discuss glaciology and the current melt cycle of the glacier

Guide will arrive at the moraine and discuss safety on how to travel to the up the moraine with avoiding rock fall.

Once arriving at the crampon area, the guide will inform clients of how to put on crampons and walk on them safely. The guide will also inform clients of how to hold ice axes if they choose to carry one from the parking lot.

Upon walking on Ice, the guide will find the most suitable path while managing risk. The guide will use guiding techniques where appropriate (spotting, step chopping, coaching, etc).

Guide will again make sure to make informational and photo stops for clients.

Guide will navigate to the first photo location which will be the lower crevasse area on Fallkojull. Guide will take a portrait and landscape photo for the clients in that selected area.

Guide will then navigate to the upper crevasse fields for another photo opportunity. While navigating to the upper plateau, the guide will utilize proper guiding techniques to keep clients safe.

When in the upper crevasse field, the guide will go to a predetermined photo spot and take another portrait and landscape photo for the clients.

The guide will take a snack / lunch break when appropriate and make sure to provide some interpretative information about the glacier and its surroundings.

Upon completion of snack / lunch, guide and client will start the walk back to the crampon area and then the parking lot to complete the tour.

After the Tour

Guide will ensure they collect all gear and ask for verbal feedback from the client

Guide will review some key facts about glaciology and inform them that an email will come with more info as well as a request for a review. Guide will also inform them about when and how they will receive their photo package.

Guide will ensure clients do not have any questions before they depart.

Guide will log tour and inform manager of outcome of tour and any feedback received from client

Special Considerations

If the tour is done in winter conditions, slide lines will be ubiquitous. The guide will need to be very aware of this when guiding in crevassed terrain. Guide should ensure they always have

safety when approaching the edge. Also, anytime a client approaches the edge, a safety will be attached 3m from the edge.

If an incident occurs, take note of the emergency response plan and act accordingly.

Procedure Plan for Ice Cave Photo Tour

Guides requirements for operation of tour:

- **AIMG Hard Ice 1 (with approval of Lead Guide)**
- **Possess a D1 driving license according to Icelandic Standards**
- **Have experience with professional photography and able to demonstrate via website, social media, etc**
- **Have a valid First Aid certification**
- **Awareness of Tetra / VHF / InReach**

For the “Glacier Hike and Photo Tour” the guide needs to have finished at least AIMG Hard Ice 1 and having been approved for the tour by the Lead Guide (AIMG Hard Ice 3 / Mountain 2) to operate the tour. This guide should possess all the fundamental knowledge of managing risk and client expectations, as discussed on AIMG Hard Ice 1.

In order to transport the clients the guide must possess a D1 license, which allows transport of passengers in a larger mini-van or small bus. The guide also needs to possess a taxi endorsement as this is required in regards to driving passengers for compensation according to Icelandic law.

The guide must have experience as a professional photographer and be able to demonstrate this with previous work. This is imperative as our clients expect professionally edited photos as a main component part of the tour package. Also, along these lines, the guide must show proficiency at editing photos with a software of their choosing.

The guide must possess a minimum of a basic First Aid certification. We want to make sure the guide can handle any basic medical situations that may arise. The Lead Guide must possess a Wilderness First responder or equivalent and be available to the guide on the tour via radio / phone communication.

The guide must possess a working knowledge of both a Tetra and VHF radio as well as a Garmin InReach. These devices may be used during the tour to communicate with the Lead Guide in case of emergencies.

Guide/guest ratio:

The guide / guest ratio is 1:10 for a standard tour package. If the guests book a private tour, it would be the number of guests in the given group. In regards to the larger 1:10 ratio, this is done on a glacier like Falljokull where hazard management is relatively straightforward. If the tour is done on a different glacier, the guide to client ratio would decrease accordingly. Also, in the case of a change of glacier, the Lead Guide would discuss the objective hazards of the glacier with the guide and help make the appropriate decision regarding the ratio.

Description for Ice Cave Photo Tour

Our most adventurous tour option, this will be a full day of private glacier hiking and photoshoots. We will start your VIP tour with a short briefing of the days events over coffee. Next, we will drive to an outlet glacier of the guides choosing to begin our adventure. After a hike through an alien-like glacial tundra, we will arrive at the edge of the glacier where your guide will assist you in putting your crampons on. Geared up, we trek to multiple ice caves where your photographer will capture professional photos of you inside of these natural wonders. Once through the caves, our destination is higher up into the glacier. To achieve this, we will hike through deep blue crevasses until we reach a colossal icefall. The visuals you will see all around you will create an unimaginable experience as your photographer captures you amongst it. To conclude this trip, we will eat lunch over the icefall and witness sunset on the glacier as we hike down from our adventures with a glacier photo album that will last a lifetime.

Equipment list for the guests: Sharpened 10-point crampons, headlamp (if needed), harness, helmet, hiking axe, and boots if needed

Link to the tour: <https://icepicjourneys.is/glacier-ice-cave-vip-photoshoot-adventure/>

Guide's equipment list:

- 35-40 liter mountaineering backpack
- Full Frame DSLR Camera with prime lens and zoom lens
- Tetra / VHF radio or similar
- 40m static single rope
- Guide ice axe (Stubai or hybrid)
- Fully stiff mountaineering boots
- 12-point crampons (Grivel G12 or Similar)
- Sunscreen and Glacier Glasses (extra pair for clients)
- Gloves (multiple pairs including extra for clients)
- Extra puffy insulating jacket for clients
- Crampon repair kit (zip ties, multi tool, center bar adjustment tool)
- GPS (can be watch) + standard track
- Guides Gear: 8 carabiners (6 locking, 1 non locking and 1 triple action), 5m of 7mm prusik, 1.5m of 7mm prusik, PCD (Micro Traxion or Roll N Lock), 120 Sling
- First Aid Kit: The kit would contain the required gear to stop bleeding and tend to minor injuries. This would include a blister kit.

Preparation before the trip:

Guide will be in continuous communication with other local guides to discuss the condition of the Ice Cave and any safety hazards that he/she should be aware of. If necessary, and if safety

information is inconclusive, the guide will personally go before the tour to check the safety of the Ice Cave.

Guide will receive booking and send relevant info about tour to clients including environmental policy and "icelandic Pledge"

1-2 days prior to the start of the trip, the guide would monitor the weather and pressure trends in the Atlantic ocean for possible low pressure systems. If weather concerns are present, the guide would inform clients. If concern is serious (over 15mps of wind or 3-5mm/hr of rain) the guide would postpone or cancel the tour with discussion from the lead guide.

Guide confirmed with clients if they need to rent any gear (like boots).

Guide does a personal gear check to make sure they have all gear listed above in the equipment list and all gear is in good condition.

Guide reviews procedures for tour and tour objectives.

Guide reviews areas on the glacier which he/she intends to take clients and makes appropriate itinerary for the tour. Guide will also review and discuss the photo package the client booked for the tour.

Beginning of the Tour

Guide starts the day of the tour with weather analysis from vedur.is for Wind/Temp/Precip and informs clients of potential weather concerns and informs clients about clothing.

Guide arrives at the meeting location 30 minutes early to welcome clients and gear them up. The clients will be provided with harnesses, helmets and boots.

Guide will meet the client in either Freysnes or the parking lot of Falljokull. At this time the guide will review the tour with the client going over the objectives for the day. Guide will discuss our environmental policy and the Icelandic Pledge with the clients.

Clients will be informed of the goal for the day and time frame in which we hope to accomplish the tour objectives. Guide also discusses any objective hazards with clients (falling ice in cave, moulin danger, hard winter ice)

The guide will review all the gear required for the tour and provide them any gear they rented for the tour.

Guide will let them know that they will be following the guide to the Falljokull parking lot.

During the Tour

Guide and clients walk to the terminus of the glacier via the rock path from Falljokull parking lot.

Guide will ensure to make adequate information stops to discuss glaciology and the current melt cycle of the glacier

Guide will arrive at the moraine and discuss safety on how to travel to the up the moraine with avoiding rock fall.

Once arriving at the crampon area, the guide will inform clients of how to put on crampons and walk on them safely. The guide will also inform clients of how to hold ice axes if they choose to carry one from the parking lot.

Upon walking on Ice, the guide will find the most suitable path while managing risk. The guide will use guiding techniques where appropriate (spotting, step chopping, coaching, etc).

At this point, and after a short hike the guide will take the clients to the Ice Cave. Upon arriving at the Ice Cave, the guide will place the clients in a safe location and personally check the safety of the cave. Some things he/she will check will be the integrity of the ceiling (any new cracks, thickness) as well if any new moulins have formed. If necessary, guide will put in a fixed line or chop some steps to make it easier for the client to walk into the cave.

When the cave is safe, the guide will brief clients as to what will be our path through the cave and where we will stop for photos. Guide will then proceed to take the required photos of the clients.

**If time allows for another Ice Cave, we will repeat the steps above for safe entry and exit of the cave*

Upon completion of the ice cave photo shoot, the guide will begin the walk back to the crampon area and down to the moraine to the car.

After the Tour

Guide will ensure they collect all gear and ask for verbal feedback from the client

Guide will review some key facts about glaciology and inform them that an email will come with more info as well as a request for a review. Guide will also inform them about when and how they will receive their photo package.

Guide will ensure clients do not have any questions before they depart.

Guide will log tour and inform manager of outcome of tour and any feedback received from client

Special Considerations

As with any Ice cave tour, there are inherent dangers with ice falling, moulins opening up, clients

slipping into a stream, etc. We will be constantly monitoring, with the help of guides from other companies, the safety of the cave and do any necessary maintenance.

If the tour is done in winter conditions, slide lines will be ubiquitous. The guide will need to be very aware of this when guiding in crevassed terrain. Guide should ensure they always have safety when approaching the edge. Also, anytime a client approaches the edge, a safety will be attached 3m from the edge.

If an incident occurs, take note of the emergency response plan and act accordingly.

Procedure Plan for “Ice Climbing Expedition”

Guides requirements for operation of tour:

- **AIMG Hard Ice 3**
- **Possess a D1 driving license according to Icelandic Standards**
- **Have a very strong recreational ice climbing background**
- **Have a valid Wilderness First Responder (or similar)**
- **Awareness of Tetra / VHF / InReach**

For the “Ice Climbing Expedition” the guide needs to have finished AIMG Hard Ice 3 and possess all the fundamental knowledge about managing risk according to the 4 areas as noted in the AIMG “Terrain Assessment” guide: safe and easy, safe and difficult, exposed and easy, exposed and difficult. Techniques include single screw belay, hand and hip belay, fixed lines and lowers should be in the guides working knowledge.

In order to transport the clients the guide must possess a D1 license, which allows transport of passengers in a larger mini-van or small bus. The guide also needs to possess a taxi endorsement as this is required in regards to driving passengers for compensation according to Icelandic law.

The guide must have a very strong personal Ice Climbing background as this tour is conducted in very exposed terrain with specialized equipment. Also, due to the nature of more challenging Ice Climbing, the guide should be able to coach the client through while recognizing things like A-Frame technique and foot / hip placement. In order to be selected, the guide needs to demonstrate this proficiency with a climbing resume listing the climbs they have completed or, in lieu of a resume, the guide would need to be checked off by the lead guide.

The guide must possess a minimum of a Wilderness First Responder (or similar certification). Due to the very demanding nature of the tour and potential for injury, it is of the utmost importance that the guide is able to handle injuries that could occur during the tour and do so independently, as the climbing locations are often a fair distance away from the parking lot.

The guide must possess a working knowledge of both a Tetra and VHF radio as well as a Garmin InReach. These devices may be used during the tour to communicate with the Lead Guide in case of emergencies.

Guide/guest ratio:

The guide / guest ratio is 1:4 for the Ice Climbing Expedition. This is because of the demanding nature of the tour and need to ensure all clients can be protected at all times. Also, it is a consideration that the clients have a limited period to wait for the climb to begin, as when the

group size increases, the time needed to wait increases as well.

Description for Ice Climbing Expedition

Ice Climbing is one of the most exhilarating and intense experiences one can have while on the glacier. It allows us to truly understand the important connection we have with this majestic flowing river of ice using specialized picks and foot spikes.

During this tour, we will start with the basics of climbing, learning things like the 2 hand technique as well as foot and axe placement. We will be doing this on an easier rope utilizing a technique called top-rope. We will stay here for a few pitches, or until the basic technique is very much ingrained in your movement strategies.

We will then move to a more challenging wall, where we will access the climb from the top. You will be lowered into a blue tunnel and slowly and with solid technique, make your way out. At this point, you will have progressed to the 'A-Frame' technique, allowing you to climb faster and with more efficiency.

Finally, we will go to the last wall of the day, which will also be the largest. This will be in a very large moulin

Equipment list for the guests: Sharpened 10-point crampons, headlamp (if needed), harness, helmet, hiking axe, and boots if needed

Guides Equipment List

- 35-40 liter mountaineering backpack
- Tetra / VHF radio or similar
- 40m static single rope
- Guide ice axe (Stubai or hybrid)
- Fully stiff mountaineering boots
- 12-point crampons (Grivel G12 or Similar)
- Sunscreen and Glacier Glasses (extra pair for clients)
- Gloves (multiple pairs including extra for clients)
- Extra puffy insulating jacket for clients
- Goretex Rain Jacket
- Crampon repair kit (zip ties, multi tool, center bar adjustment tool)
- GPS (can be watch) + standard track
- Climbing axes for clients (Quark, Nomic or Similar) + Ice Axe tethers
- Steel triple action carabiner for focal point
- *Add ATC guide to kit for top roping
- Guides Gear: 8 carabiners (6 locking, 1 non locking and 1 triple action), 5m of 7mm prusik, 1.5m of 7mm prusik, PCD (Micro Traxion or Roll N Lock), 120 Sling
- First Aid Kit: The kit would contain the required gear to stop bleeding and tend to minor injuries. This would include a blister kit.

Preparation before the trip:

Guide will receive booking and send relevant info about tour to clients including environmental policy and "icelandic Pledge"

1-2 days prior to the start of the trip, the guide would monitor the weather and pressure trends in the Atlantic ocean for possible low pressure systems. If weather concerns are present, the guide would inform clients. If concern is serious (over 15mps of wind or 3-5mm/hr of rain) the guide would postpone or cancel the tour with discussion from the lead guide.

Guide confirmed with clients if they need to rent any gear (like boots).

Guide does a personal gear check to make sure they have all gear listed above in the equipment list and all gear is in good condition.

Guide reviews procedures for tour and tour objectives.

Guide reviews areas on the glacier which he/she intends to take clients and makes appropriate itinerary for the tour

Beginning of the Tour

Guide starts the day of the tour with weather analysis from vedur.is for Wind/Temp/Precip and informs clients of potential weather concerns and informs clients about clothing.

Guide arrives at the meeting location 30 minutes early to welcome clients and gear them up. The clients will be provided with harnesses, helmets and boots.

Guide will meet the client in either Freysnes or the parking lot of Falljokull. At this time the guide will review the tour with the client going over the objectives for the day. Guide will discuss our environmental policy and the Icelandic Pledge with the clients.

Clients will be informed of the goal for the day and time frame in which we hope to accomplish the tour objectives. Guide also discusses any objective hazards with clients (moulin danger, hard winter ice)

The guide will review all the gear required for the tour and provide them any gear they rented for the tour.

Guide will let them know that they will be following the guide to the Falljokull parking lot.

During the Tour

Guide and clients walk to the terminus of the glacier via the rock path from Falljokull parking lot.

Guide will ensure to make adequate information stops to discuss glaciology and the current melt cycle of the glacier

Guide will arrive at the moraine and discuss safety on how to travel to the top of the moraine with avoiding rock fall.

Once arriving at the crampon area, the guide will inform clients of how to put on crampons and walk on them safely. The guide will also inform clients of how to hold ice axes if they choose to carry one from the parking lot.

Upon walking on Ice, the guide will find the most suitable path while managing risk. The guide will use guiding techniques where appropriate (spotting, step chopping, coaching, etc).

Guide will again make sure to make informational and photo stops for clients.

The guide will at this point, begin to navigate to the area which he/she chose for top roping practice. Along the path, the guide will take the time to introduce basic crampon techniques to the clients like front pointing, traverse, and coming down using the appropriate technique.

Upon arriving at climbing location, guide will find a safe spot for the clients to stay while he/she sets up a safe and appropriate top rope climbing scenario

Guide will then return to make sure the station is tidy and teach the client how to swing the axe and the 2 hand climbing technique. Guide will also ensure clients know how to be lowered.

Guide will encourage the clients to do 2-3 climbs in the easier terrain in order to be ready for the next scenario, which will be top down into a moulin (if appropriate).

Guide will clean up his station and remove the top roping anchor. He/she will also check in with clients to ensure they are ready for the next scenario

Guide will navigate to the next scenario which should be a moulin with a safe working edge. The guide will go down themselves if necessary and clear and overhanging hazards.

Guide will let the client know about the process of assisting / rescue if needed.

Upon completion of climbing in the moulin, guide and client will begin to walk back to crampon area to conclude the tour

After the Tour

Guide will ensure they collect all gear and ask for verbal feedback from the client

Guide will review some key facts about glaciology and inform them that an email will come with more info as well as a request for a review.

Guide will ensure clients do not have any questions before they depart.

Guide will log tour and inform manager of outcome of tour and any feedback received from

client

Special Considerations

If the tour is done in winter conditions, slide lines will be ubiquitous. The guide will need to be very aware of this when guiding in crevassed terrain. Guide should ensure they always have safety when approaching the edge. Also, anytime a client approaches the edge, a safety will be attached 3m from the edge.

If an incident occurs, take note of the emergency response plan and act accordingly.

Procedure Plan for “Ice Climbing and Ice Cave Expedition”

Guides requirements for operation of tour:

- **AIMG Hard Ice 3**
- **AIMG Ice Cave Certification**
- **Possess a D1 driving license according to Icelandic Standards**
- **Have a very strong recreational ice climbing background**
- **Have a valid Wilderness First Responder (or similar)**
- **Awareness of Tetra / VHF / InReach**

For the “Ice Climbing Expedition” the guide needs to have finished AIMG Hard Ice 3 and possess all the fundamental knowledge about managing risk according to the 4 areas as noted in the AIMG “Terrain Assessment” guide: safe and easy, safe and difficult, exposed and easy, exposed and difficult. Techniques include single screw belay, hand and hip belay, fixed lines and lowers should be in the guides working knowledge.

The guide will need to have taken the “Ice Cave Course” hosted by the Félag fjallaleiðsöğumanna á Íslandi. This course, along with Hard Ice 3, will ensure the guide is making the best decisions possible given the training and certifications he/she possesses.

In order to transport the clients the guide must possess a D1 license, which allows transport of passengers in a larger mini-van or small bus. The guide also needs to possess a taxi endorsement as this is required in regards to driving passengers for compensation according to Icelandic law.

The guide must have a very strong personal Ice Climbing background as this tour is conducted in very exposed terrain with specialized equipment. Also, due to the nature of more challenging Ice Climbing, the guide should be able to coach the client through while recognizing things like A-Frame technique and foot / hip placement. In order to be selected, the guide needs to demonstrate this proficiency with a climbing resume listing the climbs they have completed or, in lieu of a resume, the guide would need to be checked off by the lead guide.

The guide must possess a minimum of a Wilderness First Responder (or similar certification). Due to the very demanding nature of the tour and potential for injury, it is of the utmost importance that the guide is able to handle injuries that could occur during the tour and do so independently, as the climbing locations are often a fair distance away from the parking lot.

The guide must possess a working knowledge of both a Tetra and VHF radio as well as a Garmin InReach. These devices may be used during the tour to communicate with the Lead Guide in case of emergencies.

Guide/guest ratio:

The guide / guest ratio is 1:4 for the Ice Climbing Expedition. This is because of the demanding nature of the tour and need to ensure all clients can be protected at all times. Also, it is a consideration that the clients have a limited period to wait for the climb to begin, as when the group size increases, the time needed to wait increases as well.

Description for Ice Climbing Expedition

Ice Climbing is one of the most exhilarating and intense experiences one can have while on the glacier. It allows us to truly understand the important connection we have with this majestic flowing river of ice using specialized picks and foot spikes. Combining that adventure with Ice Caves, and we have the perfect tour.

During this tour, we will start with the basics of climbing, learning things like the 2 hand technique as well as foot and axe placement. We will be doing this on an easier rope utilizing a technique called top-rope. We will stay here for a few pitches, or until the basic technique is very much ingrained in your movement strategies.

We will then move to a more challenging wall, where we will access the climb from the top. You will be lowered into a blue tunnel and slowly and with solid technique, make your way out. At this point, you will have progressed to the 'A-Frame' technique, allowing you to climb faster and with more efficiency.

Before we conclude the day and head to the Ice Cave, we will go to the last wall of the day, which will also be the most challenging. We will most likely spend about 2 climbs worth of time here before heading to see our beautiful Ice Cave.

Equipment list for the guests: Sharpened 10-point crampons, headlamp (if needed), harness, helmet, hiking axe, and boots if needed

Guides Equipment List

- 35-40 liter mountaineering backpack
- Tetra / VHF radio or similar
- 40m static single rope
- Guide ice axe (Stubai or hybrid)
- Fully stiff mountaineering boots
- 12-point crampons (Grivel G12 or Similar)
- Sunscreen and Glacier Glasses (extra pair for clients)
- Gloves (multiple pairs including extra for clients)
- Extra puffy insulating jacket for clients
- Goretex Rain Jacket
- Crampon repair kit (zip ties, multi tool, center bar adjustment tool)
- GPS (can be watch) + standard track
- Climbing axes for clients (Quark, Nomic or Similar) + Ice Axe tethers
- Steel triple action carabiner for focal point
- *Add ATC guide to kit for top roping

- Guides Gear: 8 carabiners (6 locking, 1 non locking and 1 triple action), 5m of 7mm prusik, 1.5m of 7mm prusik, PCD (Micro Traxion or Roll N Lock), 120 Sling
- First Aid Kit: The kit would contain the required gear to stop bleeding and tend to minor injuries. This would include a blister kit.

Preparation before the trip:

Guide will be in continuous communication with other local guides to discuss the condition of the Ice Cave and any safety hazards that he/she should be aware of. If necessary, and if safety information is inconclusive, the guide will personally go before the tour to check the safety of the Ice Cave.

Guide will receive booking and send relevant info about tour to clients including environmental policy and "icelandic Pledge"

1-2 days prior to the start of the trip, the guide would monitor the weather and pressure trends in the Atlantic ocean for possible low pressure systems. If weather concerns are present, the guide would inform clients. If concern is serious (over 15mps of wind or 3-5mm/hr of rain) the guide would postpone or cancel the tour with discussion from the lead guide.

Guide confirmed with clients if they need to rent any gear (like boots).

Guide does a personal gear check to make sure they have all gear listed above in the equipment list and all gear is in good condition.

Guide reviews procedures for tour and tour objectives.

Guide reviews areas on the glacier which he/she intends to take clients and makes appropriate itinerary for the tour

Beginning of the Tour

Guide starts the day of the tour with weather analysis from vedur.is for Wind/Temp/Precip and informs clients of potential weather concerns and informs clients about clothing.

Guide arrives at the meeting location 30 minutes early to welcome clients and gear them up. The clients will be provided with harnesses, helmets and boots.

Guide will meet the client in either Freysnes or the parking lot of Falljokull. At this time the guide will review the tour with the client going over the objectives for the day. Guide will discuss our environmental policy and the Icelandic Pledge with the clients.

Clients will be informed of the goal for the day and time frame in which we hope to accomplish the tour objectives. Guide also discusses any objective hazards with clients (moulin danger, hard winter ice)

The guide will review all the gear required for the tour and provide them any gear they rented for

the tour.

Guide will let them know that they will be following the guide to the Falljokull parking lot.

During the Tour

Guide and clients walk to the terminus of the glacier via the rock path from Falljokull parking lot.

Guide will ensure to make adequate information stops to discuss glaciology and the current melt cycle of the glacier

Guide will arrive at the moraine and discuss safety on how to travel to the up the moraine with avoiding rock fall.

Once arriving at the crampon area, the guide will inform clients of how to put on crampons and walk on them safely. The guide will also inform clients of how to hold ice axes if they choose to carry one from the parking lot.

Upon walking on Ice, the guide will find the most suitable path while managing risk. The guide will use guiding techniques where appropriate (spotting, step chopping, coaching, etc).

Guide will again make sure to make informational and photo stops for clients.

The guide will at this point, begin to navigate to the area which he/she chose for top roping practice. Along the path, the guide will take the time to introduce basic crampon techniques to the clients like front pointing, traverse, and coming down using the appropriate technique.

Upon arriving at climbing location, guide will find a safe spot for the clients to stay while he/she sets up a safe and appropriate top rope climbing scenario

Guide will then return to make sure the station is tidy and teach the client how to swing the axe and the 2 hand climbing technique. Guide will also ensure clients know how to be lowered.

Guide will encourage the clients to do 2-3 climbs in the easier terrain in order to be ready for the next scenario, which will be top down into a moulin (if appropriate).

Guide will clean up his station and remove the top roping anchor. He/she will also check in with clients to ensure they are ready for the next scenario

Guide will navigate to the next scenario which should be a moulin with a safe working edge. The guide will go down themselves if necessary and clear and overhanging hazards.

Guide will let the client know about the process of assisting / rescue if needed.

Upon completion of climbing in the moulin the guide will take the clients to the Ice Cave. Upon arriving at the Ice Cave, the guide will place the clients in a safe location and personally check the safety of the cave. Some things he/she will check will be the integrity of the ceiling (any new

cracks, thickness) as well if any new moulins have formed. If necessary, the guide will put in a fixed line or chop some steps to make it easier for the client to walk into the cave.

When the cave is safe, the guide will brief clients as to what will be our path through the cave and where we will stop for photos.

Following the Ice Cave part of the tour, we will head back to the crampon area and back to the car.

After the Tour

Guide will ensure they collect all gear and ask for verbal feedback from the client

Guide will review some key facts about glaciology and inform them that an email will come with more info as well as a request for a review.

Guide will ensure clients do not have any questions before they depart.

Guide will log tour and inform manager of outcome of tour and any feedback received from client

Special Considerations

As with any Ice cave tour, there are inherent dangers with ice falling, moulins opening up, clients slipping into a stream, etc. We will be constantly monitoring, with the help of guides from other companies, the safety of the cave and do any necessary maintenance.

If the tour is done in winter conditions, slide lines will be ubiquitous. The guide will need to be very aware of this when guiding in crevassed terrain. Guide should ensure they always have safety when approaching the edge. Also, anytime a client approaches the edge, a safety will be attached 3m from the edge.

If an incident occurs, take note of the emergency response plan and act accordingly.

Procedure Plan for “Glacier Hike / Ice Cave Tour with Tyrolean Traverse”

***On the website, the term “Tyrolean Traverse” is replaced with “Zip Line” in order to aid in the understanding of the mechanism of movement as an average client without any Hard ice knowledge will not know what the actual term “Tyrolean Traverse” refers to. Also, this tour falls under our Glacier Hike / Ice Caving tour because the Tyrolean Traverse is functionally part of the skills that a guide can and have performed during a glacier hike.**

Guides requirements for operation of tour:

- **AIMG Hard Ice 3**
- **Possess a D1 driving license according to Icelandic Standards**
- **Have strong technical rope skills**
- **Have a valid Wilderness First Responder (or similar)**
- **Awareness of Tetra / VHF / InReach**

For the “Glacier Hike / Ice Cave Tour with Tyrolean Traverse” the guide needs to have finished AIMG Hard Ice 3 and possess all the fundamental knowledge about managing risk according to the 4 areas as noted in the AIMG “Terrain Assessment” guide: safe and easy, safe and difficult, exposed and easy, exposed and difficult. Techniques include single screw belay, hand and hip belay, fixed lines and lowers should be in the guides working knowledge.

In order to transport the clients the guide must possess a D1 license, which allows transport of passengers in a larger mini-van or small bus. The guide also needs to possess a taxi endorsement as this is required in regards to driving passengers for compensation according to Icelandic law.

The guide must have a strong technical rope knowledge as this tour is conducted in exposed terrain with specialized equipment. In order to be selected, the guide will have gone through a multi-step training process with the lead guide Mike, which covers the following:

- Shadowing Mike on 2 tours and doing a tour under supervision
- Familiarity with the rope systems and understanding of the 11mm type A rope being used
- Measurements of peak KN forces via the “Line Scale 3”
- Understanding of the PCD being used (Petzl Maestro S / Petzl Rig)
- Understanding of method to help client off the line once they zip to the end

The guide must possess a minimum of a Wilderness First Responder (or similar certification). Due to the very demanding nature of the tour and potential for injury, it is of the utmost importance that the guide is able to handle injuries that could occur during the tour and do so independently, as the climbing locations are often a fair distance away from the parking lot.

The guide must possess a working knowledge of both a Tetra and VHF radio. These devices may be used during the tour to communicate with the Lead Guide in case of emergencies.

Guide/guest ratio:

The guide / guest ratio is 1:6 for the Tyrolean Traverse. This is because of the demanding nature of the tour and need to ensure all clients can be protected at all times. Also, it is a consideration that the clients have a limited period to wait for the climb to begin, as when the group size increases, the time needed to wait increases as well.

Description for Tyrolean Traverse

Experience the ultimate thrill in Iceland with the only Zip Line in the world on a glacier! Soar across the glacier and over a vertical ice cave (called a Moulin) taking in panoramic views of the vast blue and white expanse below. Feel the wind rush through your hair as you glide above the frozen landscape, taking in the natural beauty of Iceland from a whole new perspective. Along with the zip line, you will also get to experience our famous Crystal Ice Cave, Iceland's biggest and most blue naturally formed glacier cave.

This tour is the perfect combination of adventure and natural wonder, giving you the chance to experience Iceland's unique landscapes in a whole new way. Don't miss out on this once-in-a-lifetime opportunity to explore the beauty of the ice caves while getting your heart racing on the one and only glacier zip line.

Equipment list for the guests: Sharpened 10-point crampons, headlamp (if needed), harness, helmet, hiking axe, and boots if needed

Guides Equipment List

- 35-40 liter mountaineering backpack
- Tetra / VHF radio or similar
- 10m guide safety line (2x 50m 11mm Static ropes are at moulin)
- Guides Gear: 15 carabiners (8 non locking, 7 locking), 5m of 7mm prusik, 1.5m of 7mm prusik, 4x 120cm Slings, 2x Petzl Maestro PCD's, 2x tandem pulleys with 4 triple action carabiners
- Guide ice axe (Stubai or hybrid)
- Fully stiff mountaineering boots
- 12-point crampons (Grivel G12 or Similar)
- Sunscreen and Glacier Glasses (extra pair for clients)
- Gloves (multiple pairs including extra for clients)
- Extra puffy insulating jacket for clients
- Goretex Rain Jacket
- Crampon repair kit (zip ties, multi tool, center bar adjustment tool)
- GPS (can be watch) + standard track
- Emergency shelter to keep clients warm

- First Aid Kit: The kit would contain the required gear to stop bleeding and tend to minor injuries. This would include a blister kit.

Preparation before the trip:

Before each tour, guide will review anchor placement, in regards to angle, with lead guide. The ideal angle from lookers left to right would be 2 degrees. This ensures that the client makes it to the end yet does not come there with enough speed to injure themselves. This can be measured with an inclinometer on the iPhone.

1-2 days prior to the start of the trip, the guide would monitor the weather and pressure trends in the Atlantic ocean for possible low pressure systems. If weather concerns are present, the guide would inform clients. If concern is serious (over 15mps of wind or 3-5mm/hr of rain) the guide would postpone or cancel the tour with discussion from the lead guide.

Guide confirmed with clients if they need to rent any gear (like boots).

Guide does a personal gear check to make sure they have all gear listed above in the equipment list and all gear is in good condition.

Guide reviews procedures for tour and tour objectives.

Beginning of the Tour

Guide starts the day of the tour with weather analysis from vedur.is for Wind/Temp/Precip and informs clients of potential weather concerns and informs clients about clothing.

Guide arrives at glacier lagoon 15 minutes early to welcome clients and gear them up. Once clients arrive, the guide will review the tour with the client going over the objectives for the day. Clients will be informed of the goal for the day and time frame in which we hope to accomplish the tour objectives. Guide also discusses any objective hazards with clients such a safety around the moulin we will use for the Tyrolean traverse.

During the Tour

Guide and clients walk to the terminus of the glacier via the rock path from Throng parking log.

Guide will ensure to make adequate information stops to discuss glaciology and the current melt cycle of the glacier. Depending on conditions, the guide will either take west access or east access.

Once arriving at the crampon area, the guide will inform clients of how to put on crampons and walk on them safely. The guide will also inform clients of how to hold ice axes if they choose to carry one from the parking lot.

Upon walking on Ice, the guide will find the most suitable path while managing risk. The guide will use guiding techniques where appropriate (spotting, step chopping, coaching, etc).

Guide will again make sure to make informational and photo stops for clients.

The guide will at this point, the group will approach the Tyrolean Traverse and the guide will inform them of the risk of going to the edge. He will then escort them to the lookers left of the moulin and park them in a depression about 10 meters away from the moulin. They will wait there while the setup happens.

*In winter conditions, there will be an island for the clients to clip to via their cowtails on the lookers left of the moulin. The guide will also provide them with an emergency shelter to keep them warm while they are waiting to do the Tyrolean Traverse.

When the guide is ready and the setup has been completed, the guide will go through a safety briefing. This will include the following points:

- Make sure the clients never approach the moulin less on safety line (coming from Maestro)
- Individually check each harness to make sure it's properly tightened and above the hips
- Show them how the alpine chest harness will be attached (sling over shoulder)
- Make sure they are aware to tuck in any hair or loose object's that can tangle in pulley
- Make sure they know to not grab the main lines

Once the pre-check is complete, the guide will then physically show them the process of the Tyrolean Traverse by doing it himself. It will be at this time that the guide will return to clients from the other side and attach the first person. This process will continue for the 6 guests.

Upon completion of Tyrolean Traverse, the guide will de-tension the lines and walk the clients back to crampon area to conclude the tour.

After the Tour

Guide will ensure they collect all gear and ask for verbal feedback from the client

Guide will review some key facts about glaciology and inform them that an email will come with more info as well as a request for a review.

Guide will ensure clients do not have any questions before they depart.

Guide will log tour and inform manager of outcome of tour and any feedback received from client

Risk assessment, actions and criteria - Alpine Summit Expedition

It is important to evaluate the likelihood and the seriousness of an accident to get the risk number. That is done by picking numbers from 1-3 (To get more information you pick the sheet Viðmið) then you will get the risk number. 3 means that there is a risk involved and it needs a special action to reduce the probable ability. 1 and 2 means that the risk and the likelihood of risk is very low and basic training and common sense should low probability of accident.

Date	Tour/Service	Responsible	Project Manager
21.6.2021	Alpine Summit Expedition	Mike Reid	Ryan Newburn

Risk	Description of Risk	Consequences	Preventative Action	Severity	Possibility	Risk #	Actions
Fall on Path	Fall on walking path (below snowline)	Fractured bone, hypothermia, or minor injury	Maintain the trails, assist clients when terrain is tricky, and make aware of dangers	2	1	2	No
Lower Extremity Injury	Rolling ankle while walking (below snowline)	Sprained or rolled ankle	Be aware of physical limitations of client or pre existing conditions. Watch for potential hazards & walk around	1	2	2	No
Crevasse	Fall in a crevasse/moulin (above snowline)	Serious injury or hypothermia	Go over the dangers of crevasse fall, keep rope team tight. Guide should have Fjalla 2/ Hard ice 3 and be able to manage crevasse rescue.	3	1	3	Yes
Axe / Crampon	Fall on ice axe/crampon	Cut or gash, minor injury, or serious injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear.	3	1	3	Yes
Exhaustion	Limited ability to move and/or fatigue	Strain or minor injury	Make sure clients are aware of 300vertical meters per hour requirement. Make sure proper hydration and nutrition / adequate rests.	2	1	2	No
Bad Weather	Weather changes for the worst	Team could be stranded / S&R called	Make sure to monitor weather and be in contact with base camp about changes in weather. If unexpected change occurs, go down.	3	1	3	Yes
Snow Blindness	Client can burn retina of eyes	Cannot continue	Go over gear in pre-trip call and go another gear check in parking lot. Guide will carry extra pair of glacier glasses.	3	1	3	Yes

Seriousness	
1 - Small	Discomfort or minor injuries, scratches or scuffs
2 - Medium	Recurrent injuries, need for medical attention
3 - High	Danger to life and serious and permanent injuries

Possibility	
1- Small	Low probability of an incident, rarely happens
2 - Medium	Can happen but not often
3 - High	High probability of an incident, happens often

Risk value	
Risk value 1-2	Risk acceptable - no need for action
Risk value 3-4	View risks
Risk value 5-9	Unacceptable - improvement needed

Actions
Record what action is taken, who is the developer, what is done, when and by whom.

Risk assessment, actions and criteria - Glacier Hike Photo Tour

It is important to evaluate the likelihood and the seriousness of an accident to get the risk number. That is done by picking numbers from 1-3 (To get more information you pick the sheet Viðmið) then you will get the risk number. 3 means that there is a risk involved and it needs a special action to reduce the probable ability. 1 and 2 means that the risk and the likelihood of risk is very low and basic training and common sense should low probability of accident.

Date	Tour/Service	Responsible	Project Manager
21.6.2021	Glacier Hike Photo Tour	Mike Reid	Ryan Newburn

Risk	Description of Risk	Consequences	Preventative Action	Severity	Possibility	Risk #	Actions
Driving	Car Accident	Serious injury	Use safe defensive driving, go slow in bad conditions and make sure seatbelts worn	3	1	3	Yes
Driving	Car Breaks Down/Flat Tire	Delay	Regularly do maintenance on vehicle and check degradation of tires.	1	1	1	No
Exiting Vehicle	Fall while exiting	Fractured bone or minor injury	Open doors for clients and help any that need assistance out of vehicle.	2	1	2	No
To/From Car to	Fall on walking path	Fractured bone, hypothermia, or minor injury	Maintain the trails, assist clients when terrain is tricky, and make aware of dangers	2	1	2	No
Gear Up/Safety	Fall on uneven ground	Fractured bone, hypothermia, or minor injury	Position clients in safe area for gear up and assist if needed.	1	1	1	No
Glacier Hike	Fall on glacier	Fractured bone or minor injury	Go over safety speech and constantly monitor/correct/assist with walking technique	2	1	2	No
Glacier Hike	Fall in a crevasse/moulin	Serious injury or hypothermia	Go over the dangers of hazards on glacier, keep clients always behind you and safeguard with ropes when needed.	3	1	3	Yes
Glacier Hike	Fall on ice axe/crampon	Cut or gash, minor injury, or serious injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear.	3	1	3	Yes
Glacier Hike	Rolling ankle while walking	Sprained or rolled ankle	Be aware of physical limitations of client or pre existing conditions. Watch for potential hazards & walk around	1	2	2	No
Children on Glacier	Unpredicted actions and limited focus	Serious injury	Keeping children next to you and assisting always watching. If needed tie a rope to yours and child's harness.	3	1	3	Yes
Old/Out of Shape	Limited ability to move and/or fatigue	Strain or minor injury	Select easier routes, be aware of peoples limitations and have people struggling directly behind you for assistance	1	2	2	No
Glacier Hike	Left behind or get lost from group	Hypothermia, minor, and/or major injury	Monitor all guests within your group, group control.	2	1	2	No

Seriousness	
1 - Small	Discomfort or minor injuries, scratches or scuffs
2 - Medium	Recurrent injuries, need for medical attention
3 - High	Danger to life and serious and permanent injuries

Possibility	
1- Small	Low probability of an incident, rarely happens
2 - Medium	Can happen but not often
3 - High	High probability of an incident, happens often

Risk value	
Risk value 1-2	Risk acceptable - no need for action
Risk value 3-4	View risks
Risk value 5-9	Unacceptable - improvement needed

Actions
Record what action is taken, who is the developer, what is done, when and by whom.

Risk assessment, actions and criteria - Ice Climbing & Ice Cave Tour

It is important to evaluate the likelihood and the seriousness of an accident to get the risk number. That is done by picking numbers from 1-3 (To get more information you pick the sheet Viðmið) then you will get the risk number. 3 means that there is a risk involved and it needs a special action to reduce the probable ability. 1 and 2 means that the risk and the likelihood of risk is very low and basic training and common sense should low probability of accident.

Date	Tour/Service	Responsible	Project Manager
21.6.2021	Ice Climbing Expedition	Mike Reid	Ryan Newburn

Risk	Description of Risk	Consequences	Preventative Action	Severity	Possibility	Risk #	Actions
Driving	Car Accident	Serious injury	Use safe defensive driving, go slow in bad conditions and make sure seatbelts worn	3	1	3	Yes
Driving	Car Breaks Down/Flat Tire	Delay	Regularly do maintenance on vehicle and check degradation of tires.	1	1	1	No
Exiting Vehicle	Fall while exiting	Fractured bone or minor injury	Open doors for clients and help any that need assistance out of vehicle.	2	1	2	No
To/From Car to	Fall on walking path	Fractured bone, hypothermia, or minor injury	Maintain the trails, assist clients when terrain is tricky, and make aware of dangers	2	1	2	No
Gear Up/Safety	Fall on uneven ground	Fractured bone, hypothermia, or minor injury	Position clients in safe area for gear up and assist if needed.	1	1	1	No
Glacier Hike	Fall on glacier	Fractured bone or minor injury	Go over safety speech and constantly monitor/correct/assist with walking technique	2	1	2	No
Glacier Hike	Fall in a crevasse/moulin	Serious injury or hypothermia	Go over the dangers of hazards on glacier, keep clients always behind you and safeguard with ropes when needed.	3	1	3	Yes
Glacier Hike	Fall on ice axe/crampon	Cut or gash, minor injury, or serious injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear.	3	1	3	Yes
Glacier Hike	Rolling ankle while walking	Sprained or rolled ankle	Be aware of physical limitations of client or pre existing conditions. Watch for potential hazards & walk around	1	2	2	No
Children on Glacier	Unpredicted actions and limited focus	Serious injury	Keeping children next to you and assisting always watching. If needed tie a rope to yours and child’s harness.	3	1	3	Yes
Old/Out of Shape	Limited ability to move and/or fatigue	Strain or minor injury	Select easier routes, be aware of peoples limitations and have people struggling directly behind you for assistance	1	2	2	No
Climbing	Fall off edge of crevasse/moulin	Serious injury or minor injury	Bring awareness to dangerous places and always making sure to keep a safe parameter or around holes/crevasses. Keep on ropes near the edge.	3	1	3	Yes
Climbing	Falling ice	Minor Injury	Always keep helmet on when climbing and insure ice is scraped clean where climbing will take place.	1	1	1	No
Climbing	Injury due to ice climbing axe or crampon	Cut or gash or minor injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear and how to properly climb.	2	1	2	No
Climbing	Climber falls in the line or to the ground	Serious injury or minor injury	Guides training, climbing instruction, and frequent reminders.	3	1	3	Yes
Climbing	Other guest walking with no supervision	Minor Injury	Always monitor and do frequent head counts and look backs to ensure everyone is present.	1	1	1	No
Glacier Hike	Left behind or get lost from group	Hypothermia, minor, and/or major injury	Monitor all guests within your group, group control.	2	1	2	No
Ice Cave	Fall in Water	Hypothermia, or minor injury	Make clients constantly aware of inconspicuous deep rivers and holes filled with water	2	1	2	Yes
Ice Cave	Rockfall from above ice cave	Major injury	Maintain the roof of the ice cave regularly to clear rocks down from the top.	3	1	3	No
Ice Cave	Client enter/leaves through non safe area	Hypothermia, minor, and/or major injury	Make client aware of the safe entry/exit points and always keep an eye on everyone.	2	1	2	No
Ice Cave	Walking under unstable ice	Major injury or minor injury	Chop off any weak spots in the ice & rope off weak roofs of the cave. Watch everyone	3	1	3	Yes
Ice Cave	Cave closes due to collapse	Hypothermia and/or major injury	Keep people away from below the entrance to the cave and always assess integrity	3	1	3	No

Seriousness	
1 - Small	Discomfort or minor injuries, scratches or scuffs
2 - Medium	Recurrent injuries, need for medical attention
3 - High	Danger to life and serious and permanent injuries

Possibility	
1- Small	Low probability of an incident, rarely happens
2 - Medium	Can happen but not often
3 - High	High probability of an incident, happens often

Risk value	
Risk value 1-2	Risk acceptable - no need for action
Risk value 3-4	View risks
Risk value 5-9	Unacceptable - improvement needed

Actions
Record what action is taken, who is the developer, what is done, when and by whom.

Risk assessment, actions and criteria - Ice Climbing Tour

It is important to evaluate the likelihood and the seriousness of an accident to get the risk number. That is done by picking numbers from 1-3 (To get more information you pick the sheet Viðmið) then you will get the risk number. 3 means that there is a risk involved and it needs a special action to reduce the probable ability. 1 and 2 means that the risk and the likelihood of risk is very low and basic training and common sense should low probability of accident.

Date	Tour/Service		Responsible	Project Manager
21.6.2021	Ice Climbing Expedition		Mike Reid	Ryan Newburn

Risk	Description of Risk		Consequences	Preventative Action	Severity	Possibility	Risk #	Actions
Driving	Car Accident		Serious injury	Use safe defensive driving, go slow in bad conditions and make sure seatbelts worn	3	1	3	Yes
Driving	Car Breaks Down/Flat Tire		Delay	Regularly do maintenance on vehicle and check degradation of tires.	1	1	1	No
Exiting Vehicle	Fall while exiting		Fractured bone or minor injury	Open doors for clients and help any that need assistance out of vehicle.	2	1	2	No
To/From Car to	Fall on walking path		Fractured bone, hypothermia, or minor injury	Maintain the trails, assist clients when terrain is tricky, and make aware of dangers	2	1	2	No
Gear Up/Safety	Fall on uneven ground		Fractured bone, hypothermia, or minor injury	Position clients in safe area for gear up and assist if needed.	1	1	1	No
Glacier Hike	Fall on glacier		Fractured bone or minor injury	Go over safety speech and constantly monitor/correct/assist with walking technique	2	1	2	No
Glacier Hike	Fall in a crevasse/moulin		Serious injury or hypothermia	Go over the dangers of hazards on glacier, keep clients always behind you and safeguard with ropes when needed.	3	1	3	Yes
Glacier Hike	Fall on ice axe/crampon		Cut or gash, minor injury, or serious injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear.	3	1	3	Yes
Glacier Hike	Rolling ankle while walking		Sprained or rolled ankle	Be aware of physical limitations of client or pre existing conditions. Watch for potential hazards & walk around	1	2	2	No
Children on Glacier	Unpredicted actions and limited focus		Serious injury	Keeping children next to you and assisting always watching. If needed tie a rope to yours and child’s harness.	3	1	3	Yes
Old/Out of Shape	Limited ability to move and/or fatigue		Strain or minor injury	Select easier routes, be aware of peoples limitations and have people struggling directly behind you for assistance	1	2	2	No
Climbing	Fall off edge of crevasse/moulin		Serious injury or minor injury	Bring awareness to dangerous places and always making sure to keep a safe parameter or around holes/crevasses. Keep on ropes near the edge.	3	1	3	Yes
Climbing	Falling ice		Minor Injury	Always keep helmet on when climbing and insure ice is scraped clean where climbing will take place.	1	1	1	No
Climbing	Injury due to ice climbing axe or crampon		Cut or gash or minor injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear and how to properly climb.	2	1	2	No
Climbing	Climber falls in the line or to the ground		Serious injury or minor injury	Guides training, climbing instruction, and frequent reminders.	3	1	3	Yes
Climbing	Other guest walking with no supervision		Minor Injury	Always monitor and do frequent head counts and look backs to ensure everyone is present.	1	1	1	No
Glacier Hike	Left behind or get lost from group		Hypothermia, minor, and/or major injury	Monitor all guests within your group, group control.	2	1	2	No

Seriousness	
1 - Small	Discomfort or minor injuries, scratches or scuffs
2 - Medium	Recurrent injuries, need for medical attention
3 - High	Danger to life and serious and permanent injuries

Possibility	
1- Small	Low probability of an incident, rarely happens
2 - Medium	Can happen but not often
3 - High	High probability of an incident, happens often

Risk value	
Risk value 1-2	Risk acceptable - no need for action
Risk value 3-4	View risks
Risk value 5-9	Unacceptable - improvement needed

Actions
Record what action is taken, who is the developer, what is done, when and by whom.

Risk assessment, actions and criteria - Glacier Hike/Ice Cave Photo Tour

It is important to evaluate the likelihood and the seriousness of an accident to get the risk number. That is done by picking numbers from 1-3 (To get more information you pick the sheet Viðmið) then you will get the risk number. Red means that there is a risk involved and it needs a special action to reduce the probable ability. Yellow and Green means that the risk and the likelihood of risk is very low and basic training and common sense should low probability of accident.

Date	Tour/Service	Responsible	Project Manager
21.6.2021	Glacier Photo Tour	Ryan Newburn	Ryan Newburn

Risk	Description of Risk	Consequences	Preventative Action	Severity	Possibility	Risk #	Actions
Driving	Car Accident	Serious injury	Use safe defensive driving, go slow in bad conditions and make sure seatbelts worn	3	1	3	Yes
Driving	Car Breaks Down/Flat Tire	Delay	Regularly do maintenance on vehicle and check degradation of tires.	1	1	1	No
Exiting Vehicle	Fall while exiting	Fractured bone or minor injury	Open doors for clients and help any that need assistance out of vehicle.	2	1	2	No
To/From Car to	Fall on walking path	Fractured bone, hypothermia, or minor injury	Maintain the trails, assist clients when terrain is tricky, and make aware of dangers	2	1	2	No
Gear Up/Safety	Fall on uneven ground	Fractured bone, hypothermia, or minor injury	Position clients in safe area for gear up and assist if needed.	1	1	1	No
Glacier Hike	Fall on glacier	Fractured bone or minor injury	Go over safety speech and constantly monitor/correct/assist with walking technique	2	1	2	No
Glacier Hike	Fall in a crevasse/moulin	Serious injury or hypothermia	Go over the dangers of hazards on glacier, keep clients always behind you and safeguard with ropes when needed.	3	1	3	Yes
Glacier Hike	Fall on ice axe/crampon	Cut or gash, minor injury, or serious injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear.	3	1	3	Yes
Glacier Hike	Rolling ankle while walking	Sprained or rolled ankle	Be aware of physical limitations of client or pre existing conditions. Watch for potential hazards & walk around	1	2	2	No
Children on Glacier	Unpredicted actions and limited focus	Serious injury	Keeping children next to you and assisting always watching. If needed tie a rope to yours and child’s harness.	3	1	3	Yes
Old/Out of Shape	Limited ability to move and/or fatigue	Strain or minor injury	Select easier routes, be aware of peoples limitations and have people struggling directly behind you for assistance	1	2	2	No
Ice Cave	Fall in Water	Hypothermia, or minor injury	Make clients constantly aware of inconspicuous deep rivers and holes filled with water	2	1	2	Yes
Ice Cave	Rockfall from above ice cave	Major injury	Maintain the roof of the ice cave regularly to clear rocks down from the top.	3	1	3	No
Ice Cave	Client enter/leaves through non safe area	Hypothermia, minor, and/or major injury	Make client aware of the safe entry/exit points and always keep an eye on everyone.	2	1	2	No
Ice Cave	Walking under unstable ice	Major injury or minor injury	Chop off any weak spots in the ice & rope off weak roofs of the cave. Watch everyone	3	1	3	Yes
Ice Cave	Cave closes due to collapse	Hypothermia and/or major injury	Keep people away from below the entrance to the cave and always assess integrity	3	1	3	No
Glacier Hike	Left behind or get lost from group	Hypothermia, minor, and/or major injury	Monitor all guests within your group, group control.	2	1	2	No

Seriousness	
1 - Small	Discomfort or minor injuries, scratches or scuffs
2 - Medium	Recurrent injuries, need for medical attention
3 - High	Danger to life and serious and permanent injuries

Possibility	
1- Small	Low probability of an incident, rarely happens
2 - Medium	Can happen but not often
3 - High	High probability of an incident, happens often

Risk value	
Risk value 1-2	Risk acceptable - no need for action
Risk value 3-4	View risks
Risk value 5-9	Unacceptable - improvement needed

Actions
Record what action is taken, who is the developer, what is done, when and by whom.

Risk assessment, actions and criteria - Ice Climbing, Ice Cave Tour, & Tyrolean Traverse

It is important to evaluate the likelihood and the seriousness of an accident to get the risk number. That is done by picking numbers from 1-3 (To get more informaKon you pick the sheet Viðmið) then you will get the risk number. 3 means that there is a risk involved and it needs a special acKon to reduce the probable ability. 1 and 2 means that the risk and the likelihood of risk is very low and basic training and common sense should low probability of accident.

Date	Tour/Service	Responsible	Project Manager
21.1.2023	Ice Climbing, Ice Cave & Tyrolean Traverse	Mike Reid	Ryan Newburn

Risk	Descrip:on of Risk	Consequences	Preventa:ve Ac:on	Severity	Possibility	Risk #	Ac:ons
Driving	Car Accident	Serious injury	Use safe defensive driving, go slow in bad conditions and make sure seatbelts worn	3	1	3	Yes
Driving	Car Breaks Down/Flat Tire	Delay	Regularly do maintenance on vehicle and check degradation of tires.	1	1	1	No
ExiKng Vehicle	Fall while exiKng	Fractured bone or minor injury	Open doors for clients and help any that need assistance out of vehicle.	2	1	2	No
To/From Car to	Fall on walking path	Fractured bone, hypothermia, or minor injury	Maintain the trails, assist clients when terrain is tricky, and make aware of dangers	2	1	2	No
Gear Up/Safety	Fall on uneven ground	Fractured bone, hypothermia, or minor injury	Position clients in safe area for gear up and assist if needed.	1	1	1	No
Glacier Hike	Fall on glacier	Fractured bone or minor injury	Go over safety speech and constantly monitor/correct/assist with walking technique	2	1	2	No
Glacier Hike	Fall in a crevasse/moulin	Serious injury or hypothermia	Go over the dangers of hazards on glacier, keep clients always behind you and safeguard with ropes when needed.	3	1	3	Yes
Glacier Hike	Fall on ice axe/crampon	Cut or gash, minor injury, or serious injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear.	3	1	3	Yes
Glacier Hike	Rolling ankle while walking	Sprained or rolled ankle	Be aware of physical limitaKons of client or pre exisKng condiKons. Watch for potenKal hazards & walk around	1	2	2	No
Children on Glacier	Unpredicted acKons and limited focus	Serious injury	Keeping children next to you and assisting always watching. If needed tie a rope to yours and child’s harness.	3	1	3	Yes
Old/Out of Shape	Limited ability to move and/or faKgue	Strain or minor injury	Select easier routes, be aware of peoples limitations and have people struggling directly behind you for assistance	1	2	2	No
Climbing	Fall off edge of crevasse/moulin	Serious injury or minor injury	Bring awareness to dangerous places and always making sure to keep a safe parameter or around holes/crevasses. Keep on ropes near the edge.	3	1	3	Yes
Climbing	Falling ice	Minor Injury	Always keep helmet on when climbing and insure ice is scraped clean where climbing will take place.	1	1	1	No
Climbing	Injury due to ice climbing axe or crampon	Cut or gash or minor injury	Show clients how to properly hold and utilise equipment. Keep them aware of the sharp ends of gear and how to properly climb.	2	1	2	No
Climbing	Climber falls in the line or to the ground	Serious injury or minor injury	Guides training, climbing instruction, and frequent reminders.	3	1	3	Yes
Climbing	Other guest walking with no supervision	Minor Injury	Always monitor and do frequent head counts and look backs to ensure everyone is present.	1	1	1	No
Tyrolean Traverse	Anchor / line fails and clients fall into moulin	Serious injury	Two redundant anchor systems as well as 2 independent ropes are used. Either V threads or Ice Screws are used as anchor points.	3	1	3	No
Tyrolean Traverse	Pulleys hit clients face during walk off	Cut or gash / minor injury	Steps are chopped into ice to allow client to start with pulley at or above eye line to avoid client dropping from above to below pulleys.	2	1	2	Yes
Tyrolean Traverse	Client falls off edge while being attached	Serious injury	Depending on Ice condition, client is walked by guide and attached within 2 meters from edge. Guide is attached to rope in initial phase.	3	1	3	Yes
Glacier Hike	Le[behind or get lost from group	Hypothermia, minor, and/or major injury	Monitor all guests within your group, group control.	2	1	2	No
Ice Cave	Fall in Water	Hypothermia, or minor injury	Make clients constantly aware of inconspicuous deep rivers and holes filled with water	2	1	2	Yes
Ice Cave	Rockfall from above ice cave	Major injury	Maintain the roof of the ice cave regularly to clear rocks down from the top.	3	1	3	No
Ice Cave	Client enter/leaves through non safe area	Hypothermia, minor, and/or major injury	Make client aware of the safe entry/exit points and always keep an eye on everyone.	2	1	2	No
Ice Cave	Walking under unstable ice	Major injury or minor injury	Chop off any weak spots in the ice & rope off weak roofs of the cave. Watch everyone	3	1	3	Yes
Ice Cave	Cave closes due to collapse	Hypothermia and/or major injury	Keep people away from below the entrance to the cave and always assess integrity	3	1	3	No

Seriousness	
1 - Small	Discomfort or minor injuries, scratches or scuffs
2 - Medium	Recurrent injuries, need for medical a[enKon

Ac:ons

3 - High	Danger to life and serious and permanent injuries
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Possibility	
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1- Small	Low probability of an incident, rarely happens
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2 - Medium	Can happen but not o\en
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3 - High	High probability of an incident, happens o\en
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Risk value	
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Risk value 1-2	Risk acceptable - no need for acKon
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Risk value 3-4	View risks
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Risk value 5-9	Unacceptable - improvement needed
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Record what acKon is taken, who is the developer, what is done, when and by whom.
