				oncepts in Army risk assessment. Refer to Notes	Likelil	hood (L)		Impao	ct (I)			R	sk Score	Calculatio	'n		
		ause harm, e.g. working		<i>w</i> , shows an illustrative example.	1 – Remo	ote / Rare	;	1 – Minor									
			0	d, measured by combining (multiplying) the	2 – Unlike	ely		2 – Modera	te					Like	lihood		
likeliho compet	od of it happening with ent could fall from a lac	its impact (severity). For dder (3 rating – see right	example, there may be) combined with a 'mod	a 'possible' likelihood that someone that is not erate' impact of multiple injuries (2 rating), which	3 – Possi 4 – Proba		by	3 – Major 4 – Severe				1	2		3	4	5
		. However, the risk should asures, such as ensuring		as reasonably practicable (ALARP) through the e climb the ladder.	5 – Highl	y Probab	e lied	5 – Critical		Equals	_	5 5	1	D	15	20	25
behold	en on the person creati	ng the risk to continue to	monitor the activity an	nt. Regardless of completing this AF 5010, it is d the control measures. Any changes to the t be addressed via the mechanism of a dynamic	(Almost C	Certain)	Multiplied	Note: impa		Ĕ	 m	4 4	8	;	12	16	20
risk ass	sessment such that risk	s remain ALARP.						is unlikely to with control			а с	3 3	(;	9	12	15
Note ho	owever that persons un	dergoing training cannot	be deemed competent	until their capability is properly assessed				measures			t	2 2			6	8	10
												1 1			3	4	5
5 Step	Process	 Step 1 – Identify the hazards 	e Step 2 – Decide v harmed and how	who might be Step 3 – Evaluate the risks and c on precautions (control measures				significant findin control measur		in Ex /	Coord instruction	s as		 Review as necess 		sk assessm	ent and
Dept / S	Sub-Unit / Unit / Forma	ation:	Army V	Vinter Sports Association					Assessor (No	, Rank	, Name):	24507782 V	/O2 GR Ho	Imes			
-	Activity (SSW) / Exercise (SST): Army Ice Sports Ex Racing Ice 1 2024. Igls Ice Track								Assessor's s	ignatur	e:						
Generic	or Specific Risk Ass	essment:	Specifi JSP 37		No AIS 01-2023 Assessment D				Date:		14/01/2024						
Relevar	nt Publications / Pam	phlets / Procedures:	(Mana) 42, Co	o gement of Health and Safety in Defence), Chapter d Injury Prevention Ver 1.0 vidual's Guide to Cold Injury					Review Date	for GR/	A (Step 5):	26/01/2024					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)			(j)	(k)	(I)	(m))	(r	n)
Ref	Activity / element (Step 1a)	Hazards identified (Step 1b)	Who or what might harmed and how, e.g		existing controls in the co			in the con	context of risk cont		onable additiona trols that can be	cc	Reassessment with additional control measures			List required action(s) to instigate controls	
			 Military personnel - fatality Civ staff / contractor injury General public - inju (Step 2) 		L (1 to 5) (Step 3b)	I (1 to 5) (Step 3c)	Score (L x I) (Step 3d)	appetite for the activity? (Yes / No) – Refer to Risk Score Calculation above If Yes, move to column (n). If No, identify additional controls (Step 3e)		k risk e to ALARP		e L (1 to 5) (Step 3g)	I (1 to 5 (Step 3		I)	(Ste	ıp 3j)
1	Hazards (Include Hazard Survey Number where applicable)	Incorrect lifting technique of heavy equipment	Military Personnel – Ir Civ Staff - Injury	bjury Briefing of correct manual handling techniques. Staff and Peer monitoring and enforcement of good MHT	3	2	6	Y	es						with Saf	Run in cor h Army Ice fety Plan 20 nended Fe	e Sports 023-2024
	Manual handling of sleds																
2	Sliding	Injury to athlete due to impact with track or eqpt during descent at speeds of up to 120km/h	Military Personnel – Ir Civ Staff - Injury	bjury Ex staff are aware of shortfall and monitoring progression closely of novice sliders. All sliders are to be assessed on daily basis for their subtility, ability to continue sliding. Safety briefing prior to start of Exercise .Coaching and supervision of all training runs with feedback process: no slider may slide if not deemed safe by staff. Use of appropriate PPE (helmet and gloves mandatory, padding optional at athlete discretion to minimise impact of minor		4	12	Yı	es						with Saf	Run in cor h Army Ice fety Plan 2 nended Fe	e Sports 023-2024

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
Ref	Activity / element (Step 1a)	Hazards identified (Step 1b)	Who or what might be harmed and how, e.g.	Existing control measures (Step 3a)		essment w		Is residual risk acceptable in the context of risk	Reasonable additional controls that can be		ment with a trol measur		List required action(s) to instigate controls
			 Military personnel - fatality Civ staff / contractors - injury General public - injury (Step 2) 		L (1 to 5) (Step 3b)	I (1 to 5) (Step 3c)		appetite for the activity? (Yes / No) – Refer to Risk Score Calculation above If Yes, move to column (n). If No, identify additional controls (Step 3e)	implemented to reduce risk to ALARP (Step 3f)	L (1 to 5) (Step 3g)	I (1 to 5) (Step 3h)	Score (L x I) (Step 3i)	(Step 3j)
				impacts.									All practicable control measures in place. Monitor and amend if necessary, during exercise.
				Track safety system to be adhered to at all times.									Medical risk assessment held in conjunction to RA.
				Sliding to be controlled by start staff and track manager at all times to ensure only one sled on track at any time. Trained first aider/military medic to be available to triage injuries and administer emergency casualty management/treatment as required.									Medical staff to be present during all sliding and in communication with track manager in case of medical emergency
				All trackside staff (incl. medic) to have voice comms with start and finish, either direct (radio/telephone) or through relaying of messages.									
				All athletes confirmed as physically fit and alcohol-free prior to run.									
				Athletes briefed and rehearsed in the actions on accidents whilst descending ice track at the respective start point and the finish straight.									
3	Trackside assistance	Injury to staff and athlete due to impact with eqpt, athlete or track	Military Personnel – Injury Civ Staff - Injury	Appropriate footwear to be worn when on foot in track. Safety brief to all staff prior to exercise. No staff in track when sled commences descent.	3	4	12	Yes					All practicable control measures in place. Rating due to environmental conditions (ice underfoot).
4	Slips and Trip falls	Injury to slip/trip falls on ice	Military Personnel – Injury Civ Staff - Injury	Brief to include good eqpt husbandry practices to minimise risk of eqpt left where it may cause an accident.	3	3	9	Yes					All practicable control measures in place. Rating due to environmental conditions (ice underfoot
				Correct footwear to be worn at all times, appropriate to conditions (weather, temperature and activity).									,
5	Cold weather injury	to exposure to cold	Military Personnel – Injury Civ Staff - Injury	All personnel to be briefed on cold weather injury and the prevention of it. Cold injury occurs as a result of the effects	3	4	12	No					All practicable control measures in place. Rating due to environmental conditions (cold weather). All attendees are read and
				of cold, in either wet or dry conditions, on the body. The cold may affect either the whole body by reducing the core body temperature (generalised cold injury) or affect a specific body part (localised cold									comply with the MOD booklet, An Individual's Guide to Cold Injury (PDF

(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
Ref	Activity / element (Step 1a)	Hazards identified (Step 1b)	Who or what might be harmed and how, e.g.	Existing control measures (Step 3a)		essment wating contr		Is residual risk acceptable in the context of risk	Reasonable additional controls that can be		ment with a trol measur		List required action(s) to instigate controls
			Military personnel - fatality Civ staff / contractors - injury General public - injury (Step 2)		L (1 to 5) (Step 3b)	I (1 to 5) (Step 3c)	Score (L x I)	appetite for the activity? (Yes / No) – Refer to Risk Score Calculation above If Yes, move to column (n). If No, identify additional controls (Step 3e)	implemented to reduce risk to ALARP (Step 3f)	L (1 to 5) (Step 3g)	I (1 to 5) (Step 3h)	Score (L x I) (Step 3i)	(Štep 3j)
				injury). The body normally maintains a stable core temperature of 37°C by balancing the rate of heat production (predominantly through internal metabolic heat generation) with heat lost. In cold environmental conditions heat lost to the atmosphere e.g. through breathing, contact with cold surfaces and sweating may exceed the warmth that can be generated by the body, e.g. by exercising and shivering. Core body temperature = heat gained – heat lost.									Attached) at start of exercise.
				Cold injury remains a significant issue for the Armed Forces. The incidence of cold injury depends on numbers exposed to the risk and how well that risk is managed. The overall incidence rate of cold injury cases has not changed over the past five years7. There were 488 UK Armed Forces personnel who were identified as having a cold injury during the period Oct 2015 - Sep 2016 (120 of which were in the UK summer). Cold injury rates are higher in the untrained and the young (16-19 years)8. The Institute of Naval Medicine (INM) Cold Injury Clinic (CIC) saw 225 cold injury patients in FY16-17, 39 of which were new winter referrals .									
				Generalised cold injury (hypothermia). Allowing the core body temperature to fall below 37°C, by as little as 2°C, may lead to hypothermia. It may be moderate or sever Environmental conditions Minimum working temperature. Temperature is only one risk factor for cold injury. Setting a minimum working temperature could be too prescriptive and result in loss of training opportunities.									
				The rate of heat lost from the body depends on a number of environmental factors. Commanders should ensure they obtain local meteorological measurements and accurate weather forecasts13, paying particular attention to: Still Air Temperature (SAT). Heat will be lost from the body when the external air temperature is lower than the skin temperature: the colder the SAT the greater the effect of cooling on the body. SAT is the									

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
Ref	Activity / element (Step 1a)	Hazards identified (Step 1b)	Who or what might be harmed and how, e.g.	Existing control measures (Step 3a)		essment w		Is residual risk acceptable in the context of risk	Reasonable additional controls that can be		ment with a trol measur		List required action(s) to instigate controls
			 Military personnel - fatality Civ staff / contractors - injury General public - injury (Step 2) 	contractors -		L I (1 to 5) (1 to 5) (Step 3b) (Step 3c)		appetite for the activity? (Yes / No) – Refer to Risk Score Calculation above If Yes, move to column (n). If No, identify additional controls (Step 3e)	implemented to reduce risk to ALARP (Step 3f)	L (1 to 5) (Step 3g)	I (1 to 5) (Step 3h)	Score (L x I) (Step 3i)	(Step 3j)
				 measured using a dry bulb thermometer. Changes in altitude have a significant effect on SAT. SAT falls by approximately 1°C for every 150 metres of increased altitude. Commanders should note the following: (1) Minus 5°C SAT: extra care is needed during outdoor training; gloves must be worn. (2) Minus 13°C SAT: personnel should be advised to avoid high intensity aerobic physical activity such as running and ski- racing due to risk of damage to the lungs. a. Wet conditions. Wet skin will lose heat much quicker than dry skin. When estimating the severity of risk associated with cold, wet conditions should be considered as a significant risk factor. b. Wind chill. Wind chill is often referred to as the 'feels like' temperature and is the temperature felt, instead of the actual air temperature shown on weather forecasts. Wind chill factor takes into account wind speeds and humidity to assess how the human body actually feels temperature. Wind speed is measured using an anemometer or where unavailable estimated using the Beaufort scale. http://www.metoffice.gov.uk/guide/weather// marine/beaufort-scale (accessed Jan 17). Table 2, Wind Chill Chart, also provides the risk of freezing injury on bare skin. Travel in open vehicles will have the same chilling effect as exposure to the wind. (1) Minus 30°C Wind Chill Index: all training should be avoided, and shelter should be sought 									
6	Movement into and out of vehicles	Injury to personnel/damage to eqpt when entering/dismounting camion or other vehicles	Military Personnel – Injury Civ Staff - Injury	All athletes to be briefed on correct mount/dismount techniques for use of vehicles at track. Camion drivers monitor rear compartment for unsafe behaviour and intervene as necessary.	3	3	9	Yes					Note: Safe Systems of Track Provider must be adhered to.
7	Damage to eqpt: transit, wear and tear, in use, in	Incorrect loading, storage and handling causing eqpt to	Military Personnel – Injury Civ Staff - Injury	All athletes briefed in manual handling, safe transit and husbandry of eqpt.	3	3	9						To Run in conjunction with Army Ice Sports Safety Plan 2023-2024

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
Ref	Activity / element (Step 1a)	Hazards identified (Step 1b)	Who or what might be harmed and how, e.g. • Military personnel -	Existing control measures (Step 3a)		essment w		Is residual risk acceptable in the context of risk	Reasonable additional controls that can be		ment with a trol measu		List required action(s) to instigate controls
			fatality • Civ staff / contractors - injury • General public - injury (Step 2)		L (1 to 5) (Step 3b)	I (1 to 5) (Step 3c)	Score (L x I) (Step 3d)	appetite for the activity? (Yes / No) – Refer to Risk Score Calculation above If Yes, move to column (n). If No, identify additional controls (Step 3e)	implemented to reduce risk to ALARP (Step 3f)	L (1 to 5) (Step 3g)	I (1 to 5) (Step 3h)	Score (L x I) (Step 3i)	(Štep 3j)
	storage	become U/S. Misuse Third Party Poor handling In use		Loading and storage supervised by experienced staff/athletes. Athletes to inspect eqpt prior to each slide. Suspect eqpt to be highlighted to staff immediately. Staff to inspect eqpt after sliding each day. Coach led maintenance regime to minimise risk of damage/use of U/S eqpt. Coaching and instruction to minimise risk of damage in use (on track) due to impact during descent. Staff and peer monitoring of standards, intervention where necessary.									(Amended Feb 2023)
8	Security of eqpt	Theft Damage from third parties	Military Personnel – Injury Civ Staff - Injury	Secure storage provided at track, hotel and in transit. No other storage to be utilised. All athletes briefed on eqpt husbandry, and not leaving eqpt unattended and unsecured.	2	2	4						To Run in conjunction with Army Ice Sports Safety Plan 2023-2024 (Amended Feb 2023)
9	Loss of eqpt	Poor eqpt husbandry leads to loss or degradation of eqpt	Military Personnel – Injury Civ Staff - Injury	Staff/athletes briefed. Daily checks of equipment	2	3	6						To Run in conjunction with Army Ice Sports Safety Plan 2023-2024 (Amended Feb 2023)

Authorising Officer / Warrant Officer (at unit level)	No, Rank, Name	Post	Date	Signature
Existing and additional controls agreed				
Where risk is elevated up the CoC, CO to confirm additional controls implemented				

<u>NOTES</u>

Risk = Likelihood x Impact

Like	elihood	Definition
5	Highly Probable (Almost Certain)	Is expected to occur in most circumstances

Step 5 - Review the generic risk assessment and update if necessary - All generic risk assessments should be regularly reviewed at a frequency proportional to the risk prior to any controls being proposed. In practice generic risk assessments should be reviewed at least annually, or more frequently:
• where required by local instructions/procedures;

work:

• if there is reason to doubt the effectiveness of the assessment.

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• if the safe execution of the activity relies on stringent supervision and/or adherence to a safe system of

4	Probable	Will probably occur at some time, or in most circumstances
3	Possible	Fairly likely to occur at some time, or some circumstances
2	Unlikely	Is unlikely to occur, but could occur at sometime
1	Remote / Rare	May only occur in exceptional circumstances

Impact	Definition (Health Safety and Environment)
5 Critical	 Multiple fatalities or permanent, life changing injuries. Permanent loss or damage beyond remediation of an important and publicly high-profile natural resource, area or species. Multiple incidents causing a major environmental impact.
4 Severe	 A single death or multiple life-threatening injuries. Severe damage over a wide area and/or on a prolonged basis to a natural resource, including controlled waters, or geography requiring multi-year remediation. Single incident causing a major environmental effect or multiple incidents causing significant effect.
3 Major	 Single life changing injury or multiple injuries which have a short-term impact on normal way of or quality of life. Moderate damage to an extended area and/or area with moderate environmental sensitivity (scarce/ valuable) requiring months of remediation. Single incident causing significant environmental impact.
2 Moderate	 Multiple injuries requiring first aid. Moderate damage to an area, and that can be remedied internally. Multiple incidents causing minor environmental effect.
1 Minor	 An Injury requiring first aid Limited short-term damage to an area of low environmental significance/ sensitivity Incidents causing minor environmental impacts

· following an accident or near miss.

• following significant changes to the task, process, procedure, equipment, personnel or management. • following the introduction of more vulnerable personnel (e.g. persons under 18 or pregnant persons).

-		
	Ris	k Manage
Risk Rating	Authorisation	How Ris
1 – 3 (Very Low)	OC	Review p
4 – 9 (Low)	со	changed
10 – 12 (Medium)	OF5 / 1* Bde HQ	Good ris remains ensure co
15 – 16 (Medium to High)	2* Div HQ	Requires outcome requirem
20 (High)	3* – HQ HC & FA	Continger risk mitig
25 (Very High)	4* – CGS, Army HQ	Operation impacts of

Wind chill. Wind chill is often referred to as the 'feels like' temperature and is the temperature felt, instead of the actual air temperature shown on weather forecasts. Wind chill factor takes into account wind speeds and humidity to assess how the human body actually feels temperature. Wind speed is measured using an anemometer or where unavailable estimated using the Beaufort scale15. Table 2, Wind Chill Chart16, also provides the risk of freezing injury on bare skin. Travel in open vehicles will have the same chilling effect as exposure to the wind.

(1) Minus 30°C Wind Chill Index: all training should be avoided, and shelter should be sought JSP 375 Vol 1 Ch 42 (V1.0 Oct 20)

ement

sk should be managed

periodically to ensure conditions have not and working within ALARP and risk appetite.

sk mitigations to ensure that the impact ALARP and tolerable. Re-assess frequently to conditions remain the same.

es active management – review of desired with additional resources or change to output nents.

gency plans may suffice together with limited gations to achieve risk ALARP and tolerable.

onal capability where the required outcome on defined military capability.

	WIN		FACTO	R - th	e risk	of fre	ezing	injury	on ba	are sk	in			
Wind stren	ngth		Air te	mpera	ature ((°C)								
Beaufort scale	Wind description	MPH	+10	+5	-1	-7	-12	-18	-23	-29	-34	-40	-46	-51
0	Calm	0	10	5	-1	-7	-12	-18	-23	-29	-34	-40	-46	-51
2	Light	4.2	9	3	-3	-9	-15	-21	-26	-32	-38	-44	-50	-56
3	Gentle	8.8	5	-2	-9	-16	-23	-30	-36	-43	-50	-57	-64	-71
4	Moderate	13	2	-6	-14	-21	-29	-36	-43	-50	-58	-65	-73	-80
4	Moderate	17.3	0	-8	-16	-24	-32	-40	-47	-55	-63	-71	-79	-87
5	Fresh	22.3	-1	-9	-18	-26	-34	-42	-51	-59	-67	-76	-84	-92
6	Strong	26	-2	-11	-19	-28	-36	-44	-53	-61	-70	-79	-87	-96
6	Strong	30.3	-3	-12	-20	-29	-37	-45	-54	-63	-72	-81	-90	-98
7	Moderate gale	34.7	-3	-12	-21	-30	-38	-46	-55	-64	-73	-82	-91	-100
			Low		f Free	zing		gh ris		Ve	ry hig			ezing
				Inju					njury			Inju	-	
Wind chill accounts for loss of heat when warm air around a body is replaced with colder air. Wind chill is an indication of the effect of the combination of air temperature and wind speed on human comfort and safety.														

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