

Operational Risk Management (ORM)

This is a live document, and will be updated as needed



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Rest risk:(5)

Nr:	Activity	Hazard:	Cause:	C:(1)	P:(2)	R:(3)	Countermeasures:	R,T:(4)	C:	P:	R:	Note:
1	Shooting	Hearing injuries	Shooting without ear-protection, HOT- range not stated well enough to all personell, negligent discharge.	2	2	4	RSO must alert all personell before going HOT, Shooters must pay attention to the status of own firearm, use hearing protection	RSO, All	2	1	2	1st aid kit will be present during all training
2		GSW	Personell within the firing fan of an other shooter, negligent disharche while flagging other personell, failure to succumb to the given safety regulations.	5	1	5	Follow the orders given from the RSO. RSO walk trough the safety regulations before every activity. All personell are on safety and can call cease fire in case something should happen.	RSO, ALL	5	1	5	1st aid kit will be present during all training
3		Richochets	Shooter has not sufficient bearing for the barrel, shoots the ground in front of him, target not set propely, shooting at hard surfaces to close to personel	4	2	8	RSO must make sure all targets are at a safe distance and angle, ALL shoters must control weapon clearance before shooting.	RSO, All	3	1	3	1st aid kit will be present during all training
4		Fragments in soft tissue/eyes	Spotter or other personell to close to the muzzle break.	4	1	4	Correct training, use safety glasses if required.	OIC,RSO, ALL	3	1	3	
5		Shoots fired when other personell is whitin the safetly angle of 40 mils	Failure to understand the safety angle to other personell, failure to understand lanes/ right & left limitations.	3	2	6	Range safety brief should cover the right information to prevent this to happen. Correct training of shooters	OIC, RSO, All	3	1	3	
6		Exploding barrel	Foreign objects in barrel, like snow and ice, poor maintenece	4	1	4	Clean barrel with boresnake or cleaning rod before shooting to remove foreign objects	OIC,RSO, ALL	4	1	4	
7		Shoot fired in the ground in front of the shooter	Shooter has not sufficient clearing for the barrel, shoots the ground in front of him.	3	1	2	Check clearing before shooting	RSO,ALL	3	2	6	

8		"Flagging" of personell with weapons.	Poor weapons handling	3	1	3	Proper training, remind shooters on regulations.	ALL	3	1	3	
9		Squeeze injuries	Squeezing fingers in bipod, bolt or in the foldable stock	1	1	1	Proper training.	ALL	1	1	1	
10		Negligent discharge	Wrong weapon handling. Failure to clear weapons and use of safety lever.	4	1	4	Proper training	ALL	4	1	4	
11		Supressor exploding/shot off.	Failure to follow the proper procedure for mounting the supressor, snow/ice/sand inside the supressor that causes overpressure, technical failure.	3	1	3	Proper training of personel	RSO,ALL	3	1	3	
12	Transportation, admin vehicles	Collision	Witless driving, not driving according to the environmental conditions, being hit by other vehicle, not customed to driving on the right side of the road	5	0	0	Drive according to the road conditions (ice, snow and wet roads), reduce speed in order to be able to stop the vehicle if needed. Uneeexperien ced winter drivers should pull over to let locals pass in order to avoid dangerous situations.	ALL	3	0	0	
13		Driving off the road unintentionly	Slippery roads, driving to fast, not using mandatory winter tires	5	0	0	Drive according to own limitations and experience, drive accordingly to the road and weather conditions.	ALL	4	0	0	
14		Crush injuries caused by having an incident while driving ATV (all terrain vehicle)	Unresponsible driving, unforeseen situations, not putting the vehicle in N before stopping/ leaving the vehicle. Sudden stop that causes twist injuries on wrists and other joints.	5	3	15	Drive accordingly to own limitations, follow the speed limit rule set by Parallax - 30 km/h unless other is said, proper educaton before use	OIC, ALL	5	2	10	
15		Burn injuries caused by exhaust or cooling system	Touching hot surfaces in the engine compartment.	2	1	2	Proper technical walktrough before use.	OIC, ALL	2	1	2	
16		Crush injuries caused by moving engine, belt and transmission	Working in the engine bay while engine is running, working on the belt system while engine is running.	4	1	4	Proper technical walktrough and training before use.	OIC, ALL	3	1	3	

17	Transportation, field vehicles	Head, face and other injuries caused while driving	Hitting an terrain trap, bumping head in windscreen, falling of snowmobile. Hitting branches from trees while driving	4	3	12	Proper training before use of vehicle, reduce the speed limit for non experienced users. All movment will happen with both the driver and co-driver wearing a helmet.	OIC,ALL	4	2	8	
18		Head and face injuries caused by using combat/ bump helmet instead of CE approved ATV/MC helmet	Hitting an terrain trap, bumping head in windscreen, falling of snowmobile. Hitting branches from trees while driving, foregin object hitting driver or passenger face/head while driving	5	3	15	Conduct basic ATV training and establish a basic confidence in driving the vehicles. Select training terrain according to skill level. All driving with combat/bump helmet will reduce allowed speed limit to 30 km/h. Safety walktrough before tactical training	OIC,ALL	5	2	10	All initial training on ATV will be conducted with approved CE helmet. All driving on public road will be conducted with apporved helmet. When basic driving skills are established, combat/bum helmet can be used according to Norwegian Armed forces safety regulations and in coordination with customer NCOIC/ OIC.
19		Head and face injuries caused by using combat/ bump helmet instead of CE approved ATV/MC helmet while driving with Night vision devices	Loss of depth perception and view angle due to night vision devices. Hitting an terrain trap, bumping head in windscreen, falling of snowmobile. Hitting branches from trees while driving, foregin object hitting driver or passenger face/head while driving	4	3	12	Conduct basic ATV training and establish a basic confidence in driving the vehicles. Select training terrain according to skill level. All driving with combat/bump helmet will reduce allowed speed limit to 30 km/h. Safety walktrough before night operations	OIC,ALL	4	1	4	The training will be conducted with daytime training filter on ND's in daylight before night ops. During the night time training Parallax instructors will use white/red light IOT have a overview of the training scenario. Borders of shooting arch will be marked with lightsticks.
20		ATV burns or heat damage on ATV	Failure to disengage parking brake before driving	3	5	15	Proper training, follow up from instructors on SOP before moving.	OIC,ALL	3	2	6	

21		Injuries on 3rd person, civilians and non training personell	Unresponsible driving, over confidence in own skills, accidents, negligence, not setting the ATV in neutral when parking the vehicle, not engaging the park brake on the ATV. Equipment not properly stowed	5	4	20	Safety walktroughs, Parallax instructors sets allowed speed limits and repeats safety rules before movement. Equipment and rifles stowed properly to avvoid equipment falling off causing accidents.	OIC,ALL	5	2	10	
22		Damage on property, other vehicles and own ATV	Unresponsible driving, over confidence in own skills, accidents, negligence, not setting the ATV in neutral when parking the vehicle, not engaging the park brake on the ATV. Equipment not properly stowed	3	4	12	Safety walktroughs, Parallax instructors sets allowed speed limits and repeats safety rules before movement. Equipment and rifles stowed properly to avvoid damage to rented vehicles	OIC,ALL	3	2	6	
23		Soft tissue injuries and broken limbs due to fall on ice/slipperey surfaces	Slippery roads and surfaces covered in ice or black ice.	3	2	6	Awarness	ALL	3	2	6	
24		Snow blindness	Bright light/sun reflecting the snow, white scenery	4	1	4	Use sun glasses or ski goggels, proper training.		4	1	4	
25		Cut injuries	Using knife, axes and showels	2	1	2	Use gloves and correct techniques	ALL	2	1	2	
26		Avalanche	Personell taken by avalanche	5	3	15	Conduct proper training on all personell, hereby on safe route planning, avalanche hazard levels. Issue avalanche safety kit to each participant and correct training on practical use,	OIC	5	2	10	Activity and training goals will be adjusted accordingly to Parallax safety rules and avalanche hazard levels.

27	General field activity	Avalanche	Own personell triggering a avalanche	5	2	10	Conduct proper education on safe route planning, avoid areas with snow build-ups and terrain steeper than 30 degrees. OIC will lead all movment in terrain with snowmobiles	OIC	5	1	10	Activity and training goals will be adjusted accordingly to Norweagian safety ruels and avalanche hazard levels.
28		Frost bites and cold injuries	Not using proper protective clothing or using it incorrectly, tuching bare metal with no protection, not covering up naked skin while driving snowmobiles.	4	4	16	Conduct proper winter training and education on all participants, OIC will bring Norwegian winter equipment in case the participants equipment is not sufficient for the conditions.	OIC	4	2	10	If participants brings cold weather gear/ equipment that does not pass the OIC inspection, they will be provided a replcement item that will be sufficient for the conditions
29		Hypothermia	Not using cold weather gear propaly, lack of knowlegde to adjust for the enviroment. Stuck in bad weather/blizzard/whiteout.	5	4	20	Conduct clothing class, first aid class and check equipment before entereing the training area. Controll all winter equipment before use.	OIC,ALL	5	2	10	In the training area there will be a cabin available for safety reasons, in case of problems. In case of unforeseen weather all personell will bring a norwegian issued bivibag for emergency shelter at all times while training.
30		Snow cave collapses	Poor construction, using a heat source inside snow cave	5	0	0	Inspection by OIC before use, proper education.	OIC	5	0	0	Weather conditions and snow conditions will be considered before a night in snowcave will conducted
31		asphyxia or carbonmonoxide poisoning in snowcave	Sleeping in a snowcave without proper ventilation, or using a fieldstove ot other heating sources inside snowcave	5	0	0	Proper inspection before use of snowcave,no combustible heat sources inside the snowcave.	OIC	5	0	0	Weather conditions and snow conditions will be considered before a night in snowcave will conducted
32		Radiation from radio equipment	Standing to close to antennas and transmission parts	2	0	0	Proper training of personel	Unit	1	0	0	
33		Bruns from radio equipment	Tuouching hot surfaces on sender/recivers, internal burns from antennas	2	0	0	Proper training of personel	Unit	2	0	0	

Additional comments

The remaining risk is considered to be acceptable, and is considered as normal Norwegian training conditions. But special attention will be used for the non native participants that are not used to winter warfare, and all activities will be planned and conducted accordingly to ensure that no injuries does not occur.

⁽¹⁾ Consequence: 5-Critical, 4-Grave, 3-Moderate, 2-Low, 1-Unsignificant

⁽²⁾ Probability: 5-Very high, 4-High, 3-Moderate, 2-Low, 1-Very low

⁽³⁾ Consequence * probability.

⁽⁴⁾ Responsibility and deadline for countermeasure

⁽⁵⁾ Remaining risk after countermeasures