

Project Risk Assessment Plan

Risk	ጲ	Safety	Office.	UNBO
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For Administration Use O	nly
Protocol No.	Date Received:

Please prepare and submit a Risk Assessment Plan for each major project you are undertaking. Updates to these can be made if there are personnel and/or protocol changes. Copies of this plan should be registered with the Risk & Safety Office and the Research Office at the start of the project. Procedures should be discussed and agreed upon by all personnel on the project, and a copy of the plan should accompany the field crews working on the project.

Please submit the completed application to Risk & Safety Office, University of Northern BC – submission can be an electronic version.

1. GENERAL INFORMATION			
Project Title:			
Principal Investigator	UNBC Department/Program		
Position/Rank	Email		
Phone/Fax:			
Submission Date Proposed End Date for Current Application			
2 PERSONNEL ASSOCIATED WITH PROJECT			

Zi I ENGOMMEE AGGG	CIATED WITH FROSECT				
Role	Name	First Aid Training	Field Safety Training	WHMIS	Fieldworker Critical Data Form Attached
Field Supervisor:		Level 1 or equivalent	☐Course ☐Self-training	□Course □Self-training □ N/A	☐ Yes ☐ No
☐ Crew member: ☐ Field Supervisor:		Level 1 or equivalent	□Course □Self-training	□Course □Self-training □ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	☐Course ☐Self-training ☐ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	□Course □Self-training □ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	☐Course ☐Self-training ☐ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	□Course □Self-training □ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	□Course □Self-training □ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	☐Course ☐Self-training ☐ N/A	☐ Yes ☐ No
Crew member:		Level 1 or equivalent	□Course □Self-training	☐Course ☐Self-training ☐ N/A	☐ Yes ☐ No

Add additional page if there are more personnel on the project. If there is more than one Field Supervisor (e.g. for crews working separately), modify the Role section and identify which Crew members will be associated with which Field Supervisor. This can be done by indicating Field Supervisor 1, and Crew member (1).

3. LOCATIONS IDENTIFIED WITH PROJECT

Define the locations where the research will occur, including the spatial scale of the area. Feel free to attach maps of the broad study region and locations of primary sub-sites within this. For large areas, indicate how the position of field crews will be determined/tracked on a day-to-day period.

This component should be printed up and carried with field crews to be used in the event of an emergency so they can provide information on work location and emergency contact

Site Name: Map Attached Yes No				
		Emergency Contact Information (site/subsite)		
Location (specify units) Lat/Long UTM Zone:	Lat/Northing:	For each location, indicate how to contain Local RCMP/Police (non-emergency):		
	Long/Easting:	Ambulance (e.g. 911):		
Sub-sites Included Yes No	Sub-sites locations: Indicated on attached map Lat/Long or UTMS (below)	Specify if there are regional between subsites for emerg information.		
Sub-site 1	Lat/Northing: Long/Easting:	☐ Same as above ☐ Differs: RCMP/Police: Ambulance:		
Sub-site 2	Lat/Northing: Long/Easting:	☐ Same as above ☐ Differs: RCMP/Police: Ambulance:		
Sub-site 3	Lat/Northing: Long/Easting:	☐ Same as above ☐ Differs: RCMP/Police: Ambulance:		
Sub-site 4	Lat/Northing: Long/Easting:	Same as above Differs: RCMP/Police: Ambulance:		
	Insert additional pages if necessary to include I	nore subsites/vehicles		
Vehicle Description:	Make:			
	Year:			
	Colour:			
	License:			
	ocation of personnel within the site on a day-to-c n. Maps can be included to identify major sites a		lude an itinerary	
Сору	and Paste this page for each major site you wis	h to identify with this project		

4. HAZARDS ASSOCIATED WITH PROJECT

Prior to entering the field the project supervisor must identify any potential hazards that may exist, and then determine how to provide information to mitigate these risks to personnel. This checklist will help to identify some of the hazards the research team may encounter. Identify any hazards not covered here that are specific to your project at the bottom.

If you are conducting an Urban Survey - Refer to the Community Based Research Manual for information on mitigating some of these associated risks. If you are conducting Wilderness based research - refer to the Field Procedures & Safety Manual.

First Aid Requirements

A Level 1 Fi	rst Aid Attendant must be prov	ided on each crew up to five people	For Crews over 5 contact Risk		
☐ first aid k	in the group Name of First Aid Attendant		& Safety for a first aid assessment		
CTED 4) OL LILL C. L.					
STEP 1) Check all boxes for hazards		that may be encountered,			
CTED 2)					
STEP 2) Identify how you will prevent (control) the hazard from causing injury					
(750)			•		
STEP3) Ensure all crew members receive the necessary information and training			ing		

Field Work Hazards	Have you es	mitigate the	Have you provided instruction and	
	haz	ard	training to	your crew
Field Work Activities				
urban survey	☐ yes	☐ no	☐ yes	☐ no
☐ bushwalking on foot	☐ yes	☐ no	☐ yes	☐ no
☐ working at height	☐ yes	☐ no	□yes	☐ no
☐ working on or around water	□ yes	☐ no	□yes	☐ no
Personal				
sunburn	☐ yes	□ no	□yes	☐ no
☐ heat / cold stress	☐ yes	☐ no	☐ yes	☐ no
manual handling, lifting	☐ yes	☐ no	□yes	☐ no
☐ slips and trips	□ yes	☐ no	□yes	☐ no
personal security	□ yes	☐ no	□yes	☐ no
allergies (specify details in personnel forms)	□ yes	☐ no	□yes	☐ no
Transport Involving				
resource roads	☐ yes	☐ no	□yes	☐ no
□ boats	□ yes	☐ no	□yes	☐ no
□ aircraft	□ yes	☐ no	□yes	☐ no
navigation maps	☐ yes	☐ no	□yes	☐ no
☐ Driver training	☐ yes	☐ no	□yes	☐ no
☐ Transport dangerous goods	□ yes	☐ no	□ yes	☐ no
Licensing/Insurance				
☐ Access permits required	□ yes	☐ no	□yes	☐ no
☐ Insurance	☐ yes	☐ no	□yes	☐ no

Field Work Hazards Continued	Have you established a method to mitigate the hazard		Have you provided instruction and training to your crew	
Personal protection required				
□ gloves	☐ yes	□ no	☐ yes	☐ no
☐ high-visibility clothing	☐ yes	☐ no	☐ yes	☐ no
☐ glasses/goggles	☐ yes	☐ no	☐ yes	☐ no
☐ hard hat required	☐ yes	☐ no	☐ yes	☐ no
☐ respirator	☐ yes	☐ no	☐ yes	☐ no
□ other. Specify:	☐ yes	□ no	☐ yes	□ no
Fauna & Flora				
sting plants/animals	☐ yes	☐ no	☐ yes	☐ no
☐ hazardous wildlife (e.g. bears)	☐ yes	☐ no	☐ yes	☐ no
potentially disease-bearing or poisonous animals (e.g. ticks, rattlesnakes)	□ yes	□ no	□ yes	□ no
Chemicals				
☐ MSDS available	☐ yes	☐ no	☐ yes	☐ no
☐ Spill Kit	☐ yes	□ no	☐ yes	☐ no
Radiation	☐ yes	☐ no	☐ yes	☐ no
☐ chemical waste	☐ yes	☐ no	☐ yes	☐ no
sharps	☐ yes	☐ no	☐ yes	☐ no
Weather				
☐ Snow	☐ yes	☐ no	☐ yes	☐ no
☐ Road conditions	☐ yes	☐ no	☐ yes	☐ no
☐ Heat	☐ yes	☐ no	☐ yes	☐ no
Clothing recommended				
☐ sun hat	☐ yes	☐ no	☐ yes	☐ no
☐ winter clothing	☐ yes	☐ no	☐ yes	☐ no
□ appropriate footwear □ insect hat/shirt	□ yes	□ no	□yes	□ no
Mechanical Hazards				
vehicles	□ yes	□ no	□ yes	no
☐ mobile equipment	□ yes	□ no	□ yes	□ no
tools	□ yes	□ no	□ yes	□ no
generation of dust	□ yes	no	□ yes	□ no
generation of dust				
Fire Risks				
□ extinguisher	☐ yes	☐ no	□ yes	☐ no
☐ camp fire	yes	no	, ☐ yes	no
combustibles	yes	no	, ☐ yes	no

Project Specific Hazards not list	ed (add as re	quired)		
Field Work Hazards Continued	Method to m		Have you instructi training to	on and
	☐ yes	no	□ yes	no
	yes	no	, ☐ yes	no
	yes	no	yes	no
	yes	no	, ☐ yes	no
	yes	no	□ yes	no
	yes	no	yes	no
		no	yes	no
For identified hazards, identify what form of training/instruction is	place for pe		p. 0,00t.	

5. COMMUNICATION/CALL-IN PROCEDURES FOR PROJECT

Communica	tion among Crew m	nembers - Members of the fiel while workin	d crew should maintain internal c	ontact at least every two hours	
How will the o		act with each other?	Frequency of within-crew con		
Radios	t арріу)		☐ Continuous (working together or within calling distance)☐ Hourly		
☐ In-person contact ☐ every two hours					
Cell or sate	ellite phone	of visual range with each oth	por how will personnel keep track of each other's general		
For crew members working out of visual range with each other, how will personnel keep track of each other's general location in case of failure to make scheduled contact?					
		r other noise-making devices (
☐ Pre-arrange☐ Cell or sate		oupled with knowledge of area	crew members will be working w	hile out of visual contact	
	•				
Do crew mem If yes, provide		eans of personal location de	evice? Yes No		
ii yes, provide	e details.				
Communication	ons for Working Ale	one - For individuals or crews	working alone, daily call-in proce	dures are required	
	systems apply for th		working alone, daily call in proce	adies die required.	
			bers, at least two sign-ins per day	should be performed (upon	
		at return from sites).	hen leaving base camp to start w	ork, and upon return to hase-	
	ne end of the day.	j site, sign-ins should occur w	men leaving base camp to start wi	ork, and upon return to base-	
For person	nel working by thems	selves in remote locations, call	-ins should be conducted at least	t every two hours.	
SIGN-IN Proce		Socurity (LINDC Sign in Form	must be completed and attached	,	
			nders as per the protocol below.	,	
	Time Range	How sign in will be made	Primary Contact	Secondary Contact	
	Time Kange	(SPOT, Sat Phone, Cell)	(name and contact information)	(name and contact information)	
Sign in 1			,		
Sign in 2					
Oigii iii 2					
Sign in 3					
Sign in 4					
Sign in 5					
Sign in 5					
Sign in 6					
_					
			xternal check ins (start and end		
is no internal			ck ins should be every 2 hrs. The only the total numbers of check		
Is there a grad		ry contact should wait before			
For romate an	rows how will the D	rimary/Cocondany Contact l	anow if the crew is not going ou	it for the day (o a weether	
day)?	ews, now will the P	rimary/Secondary Contact K	anow if the crew is not going ou	it for the day (e.g. weather	
• •					
1					

should be to contact Secondary Contact to determine whether they have received sign in (ensure primary and secondary contact have each other's contact details)
Initial Response to try and make contact with personnel:
2. Is there a local contact that could go to site to check crew? If so provide details
·
Secondary Response if first response fails to locate personnel.
Describe search plan to initiate.
Emergency search and rescue contact information for the site and contact information for Local RCMP should be provided in Sect 3
Maps of study sites and entry routes, locations where you typically park etc needs to be available, as do personnel critical data forms, so these can be transmitted to search personnel. Ensure that the Primary and Secondary contacts have access to this document, personnel information files and recent photos of the personnel so as to be able to transmit this information if needed.

6. EMERGENCY PLAN

In the event of an emergency – e.g. injury to personnel, need to be removed from site in event of forest fire etc – you will need to develop emergency plans that all members of the crew are familiar with and know their particular roles. It is important to realize that emergencies are highly case specific, and hence these guidelines should be seen as general guidelines, not strict instructions. The protocol for rescuing an injured crewmember is to do whatever is necessary and reasonable to get help, make the situation safe, and comfort the injured individual in a very short amount of time. Having a set of agreed upon protocols ahead of an emergency increases the potential efficiency of the unit, as well as helps personnel know what particular role they should be playing.

If an injury to a crewmember occurs, document the procedures to be followed in the appropriate sections below:
6.1. If the injured crewmember is conscious and able to communicate the nature of their injury
a. How will they communicate their need for help to the other crew members/outside help?
b. Indicate the response that other crew members/responders should take on receiving this message.
c. How will outside help (e.g. paramedic response) be gained if necessary? State also how you would direct these personnel to the exact location of the injured person.
6.2. If the injured crewmember is not conscious or unable to communicate the nature of their injury
How will other crew members/outside responders discover that an injury has occurred (e.g. failure for check-ins and subsequent searching).
b. Indicate the response that other crew members should take on discovering that an injury has occured. ☐ Same procedure as 6.1.b above. ☐ Other:
c. How will outside help (e.g. paramedic response) be gained if necessary? State also how you would direct these personnel to the exact location of the injured person. ☐ Same procedure as 6.1.c above. ☐ Other:

In the event of circumstances that require evacuation of a site – e.g. forest fire
6.3. How would an outside supervisor inform the field crew of reported dangers (e.g. presence of dangerous animal reported in the region) that would require evacuation or cessation of activities? 6.4. If the detection of dangers that require evacuation occur on site (e.g. detected forest fire or other hazard), how do
personnel inform each other of the danger?
6.5. What is the procedure to follow to evacuate the site?
6.6. How will it be determined that all personnel are safely evacuated?

Once this form is completed, amend any additional documents you wish to add, please submit the completed application to Risk & Safety Office, University of Northern BC – submission can be an electronic version.