

The following is to be used as a guide for identifying hazards related with field activities. Researchers need to identify the hazards associated to each specific field activity. This is not an exhausted list of hazards.

Activity	Description of Hazard (condition/circumstance)	Controls 1. Substitution or elimination 2. Engineering Controls 3. Administrative Controls 4. PPE
Working Alone	-Lack of communication -Isolation	2. Telephone; cell phone, radios 3. Training, organizing and planning work, informing responsible person of location, emergency contact list, rotation of workers, working in groups, sign in sign out sheet.
Driving	-fatigue -speed -cell phone use -adverse road conditions -in vehicle distractions	3. Drivers will be rested and take required rest breaks. Cell phones will not be used by driver. Driver must be aware and comfortable to drive in various road and weather conditions. Others in vehicle will not distract the driver with their activities. Students and instructors will be required to complete a UofL Driver's Agreement. The number of passengers in any vehicle shall not exceed the number of seatbelts in any given vehicle, and workers will be advised that seatbelts are to worn at all times.
Conducting work in a Remote Worksite	-isolated -communication issues - access to medical facilities	3. At field site, a site specific safety plan will be undertaken to identify any potential hazards. Number of first Aiders, appropriate first aid kits(see table below)
Maneuvering on uneven terrain	-Slips, trips and falls -obstructions(fallen trees)	3. Workers orientated to their worksites. Workers will be required to dress appropriately, and must have proper footwear as some work sites may be characterized by uneven terrain.
Working in the outdoors;	-temperature extremes -sunburns -dehydration/heat exhaustion -allergies	3. To use sunscreen, drink water, and take regular breaks. Field work will be suspended in the event of extreme weather events. 4. Appropriate clothing, hats, and sunglasses.
Worksite in large animal wildlife habitats(bears, cougars, coyotes)	-unpredictable behavior of animals -potential for bites and life threatening injury	3. Working in groups, bangers and bear spray, wild animal training,
Working with or around domestic animals	-unpredictable behavior of animals -potential for bites and life threatening injury	3. Work procedures, animal training, work in group

Activity	Description of Hazard (condition/circumstance)	Controls 1. Substitution or elimination 2. Engineering Controls 3. Administrative Controls 4. PPE
Worksites with plants and insects	-allergic reactions -bites and stings	3. In order to reduce the risk of contact from insect bites workers will be advised to use to wear long- sleeved shirts and use insect repellants. Workers with a sensitivity to insect stings and/or plants will told to inform the instructors, will be expected to carry with them an EPI pen or Benadryl, and will be advised to ensure these items can be easily found in the event they are incapacitated.
Camp life/kitchen duties	-food allergies -burns, cuts -human behaviour	3. Workers will be responsible for assisting with food preparation and kitchen clean up, as well as other general camp duties. Kitchen and food-related duties will be conducted under the supervision of various members of the instructional team. Workers asked to inform the course instructors of any food allergies or special dietary requirements. 4. For camp clean-up duties, workers will be provided with personal protective items, such as rubber gloves.
Off Campus Urban worksite (surveys)	-unfamiliar settings -aggressive/violent behavior	3. Workers to interact with the general public in order to administer a short questionnaire survey. Work in pairs, all workers should receive training on how to deal with an uncooperative respondent or difficult situations should one arise.
Travel-International	-Transportation -Security -health risks	3. Attend a Pre Departure travel risk orientation; adhere to U of L travel procedure/documentation; U of L driver agreement; review country specific travel reports and advisories (DFAIT); investigate local customs and laws; awareness of seasonal weather patterns; vaccinations and awareness of associated health risks; emergency contact cards; check in procedure.
Animal handling	-Scratches -Bites -allergic reactions	2. Work in ventilated areas, containment for transporting animals (AC): policies and procedures, SOPs, animal handling training, organizing and planning work, safety plan and habituation of animals 4. gloves, fit-tested N-95 respirators (as required for individuals with allergies)
Working with controlled drugs	-exposure -sharps	2. Locked storage for transport 3. Use, storage, and disposal as per Health Canada requirement; training, SOPs, WHMIS training, MSDS 4. Gloves, lab coat, safety glasses
Working with chemicals	-Inhalation of vapors & dust -contact with skin or eyes -Incompatibility reactions -Chronic exposure (irritation, allergic reaction)	2. Work in ventilated area, transport buckets/secondary containment 3. Substitution of a less toxic product if possible, training of personnel on procedures, TDG training, WHMIS training, MSDS, organizing and planning work, I, spill and waste disposal procedures; access portable eyewash station; 4. Safety glasses, lab coats, gloves, fit-tested respirators

Activity	Description of Hazard (condition/circumstance)	Controls 1. Substitution or elimination 2. Engineering Controls 3. Administrative Controls 4. PPE
Working with Compressed Gases	-High pressure -Poisonous -Flammable -Oxidizer	2. Stored upright and secured in vehicle; appropriate ventilation if required, transport carts designed for task, 3. Safe work procedures, leak testing connections (with SNOOP or soap solution), training, WHMIS, MSDS 4. Safety glasses
Working with Flammable and Combustible materials	-Exposure -Fire -Explosion (e.g. ethanol, isopropanol)	2. Work in ventilated area; appropriate storage containers; do not store with oxidizers, transport buckets/ secondary containment 3. Access to fire extinguisher, fire extinguisher training, training, WHMIS, MSDS, spill and waste disposal procedures 4. Gloves, lab coat, safety glasses
Working with sharps (animal procedures tissue preparation)	-needle stick injury, --cuts (broken glass, razor blades)	2. Sharps disposal container; shielded needles (as appropriate); broken glass container, tools for handling of sharp materials/equipment 3. Training, organizing and planning work, SOPs, access to first aid kit 4. Gloves

Table 6 First aid requirements for medium hazard work
[See sections 178, 181(1)]

Number of workers at work site per shift	Close work site (up to 20 minutes)	Distant work site (20 – 40 minutes)	Isolated work site (more than 40 minutes)
1	Type P First Aid Kit	Type P First Aid Kit	Type P First Aid Kit
2 – 9	1 Emergency First Aider No. 1 First Aid Kit	1 Standard First Aider No. 2 First Aid Kit 3 blankets	1 Standard First Aider No. 2 First Aid Kit 3 blankets
10 – 19	1 Emergency First Aider 1 Standard First Aider No. 2 First Aid Kit	1 Emergency First Aider 1 Standard First Aider No. 2 First Aid Kit 3 blankets	2 Standard First Aiders No. 2 First Aid Kit 3 blankets
20 – 49	1 Emergency First Aider 1 Standard First Aider No. 2 First Aid Kit	1 Emergency First Aider 1 Standard First Aider No. 2 First Aid Kit 3 blankets	2 Standard First Aiders No. 2 First Aid Kit 3 blankets
50 – 99	2 Emergency First Aiders 1 Standard First Aider No. 3 First Aid Kit	2 Emergency First Aiders 1 Standard First Aider No. 3 First Aid Kit 3 blankets	3 Standard First Aiders No. 3 First Aid Kit 3 blankets
100 – 199	2 Emergency First Aiders 2 Standard First Aiders No. 3 First Aid Kit Designated area for first aid services	2 Emergency First Aiders 2 Standard First Aiders No. 3 First Aid Kit 3 blankets, stretcher, splints Designated area for first aid services	3 Standard First Aiders 1 Advanced First Aider No. 3 First Aid Kit 3 blankets, stretcher, splints Designated area for first aid services
200 or more	2 Emergency First Aiders 2 Standard First Aiders 1 Nurse or 1 EMT-P Plus 1 Standard First Aider for each additional increment of 1 to 100 workers First Aid Room	2 Emergency First Aiders 2 Standard First Aiders 1 Nurse or 1 EMT-P Plus 1 Standard First Aider for each additional increment of 1 to 100 workers First Aid Room	4 Standard First Aiders 1 Nurse or 1 EMT-P Plus 1 Standard First Aider for each additional increment of 1 to 100 workers First Aid Room

Note: Number of first aiders indicated is for a shift at all times.

Table 7 First aid requirements for high hazard work
[See sections 178, 181(1)]

Number of workers at work site per shift	Close work site (up to 20 minutes)	Distant work site (20 – 40 minutes)	Isolated work site (more than 40 minutes)
1	Type P First Aid Kit	Type P First Aid Kit	Type P First Aid Kit
2 – 4	1 Emergency First Aider No. 1 First Aid Kit	1 Standard First Aider No. 2 First Aid Kit 3 blankets	1 Standard First Aider No. 2 First Aid Kit 3 blankets
5 – 9	1 Emergency First Aider 1 Standard First Aider No. 2 First Aid Kit	2 Standard First Aiders No. 2 First Aid Kit 3 blankets	2 Standard First Aiders No. 2 First Aid Kit 3 blankets
10 – 19	1 Emergency First Aider 1 Standard First Aider No. 2 First Aid Kit 3 blankets	2 Standard First Aiders No. 3 First Aid Kit 3 blankets, stretcher, splints	2 Standard First Aiders No. 3 First Aid Kit 3 blankets, stretcher, splints
20 – 49	2 Emergency First Aiders 1 Standard First Aider No. 2 First Aid Kit 3 blankets	3 Standard First Aiders No. 3 First Aid Kit 3 blankets, stretcher, splints	3 Standard First Aiders No. 3 First Aid Kit 3 blankets, stretcher, splints
50 – 99	2 Emergency First Aiders 2 Standard First Aiders No. 3 First Aid Kit 3 blankets	2 Emergency First Aiders 3 Standard First Aiders No. 3 First Aid Kit 3 blankets, stretcher, splints	4 Standard First Aiders 1 Advanced First Aider No. 3 First Aid Kit 3 blankets, stretcher, splints
100 – 199	2 Emergency First Aiders 2 Standard First Aiders 1 Advanced First Aider First Aid Room	4 Standard First Aiders 1 Advanced First Aider First Aid Room	4 Standard First Aiders 1 Advanced First Aider First Aid Room
200 or more	2 Emergency First Aiders 2 Standard First Aiders 1 Nurse or 1 EMT-P Plus 1 Standard First Aider for each additional increment of 1 to 100 workers First Aid Room	4 Standard First Aiders 1 Nurse or 1 EMT-P Plus 1 Standard First Aider for each additional increment of 1 to 100 workers First Aid Room	4 Standard First Aiders 1 Advanced First Aider 1 Nurse or 1 EMT-P Plus 1 Standard First Aider for each additional increment of 1 to 100 workers First Aid Room

Note: Number of first aiders indicated is for a shift at all times.