**Training resources**

This is a list of training resources for people working in the field in the EOAS department. Note, these are not mandatory, but rather serve to provide guidance and ideas for training that may be a risk control measure to minimize risk and increase safety in the field. If training is necessary, it is expected that supervisors will provide the funding.

[**Occupational First Aid Level 1-3, CPR and AED**](#_46df8w31vde0) **1**

[**Wilderness First Aid**](#_qmoaawvhat4w) **1**

[**Bear Aware, How to use bear spray**](#_7yedesucptob) **2**

[**Driving trainings, defensive driving, trailer towing**](#_cl3a73q9yvtf) **2**

[**Helicopter safety**](#_8w91dc9xtkah) **2**

[**H2S Alive**](#_5ylcgzwllg83) **2**

[**Avalanche Safety Training (AST) 1**](#_3595zy11jorg) **2**

[**Glaciology training**](#_5722qgj0ggfd) **3**

[**Transportation of Dangerous Goods (UBC)**](#_plvmxolzx5ud) **3**

[**Bystander intervention and anti-harassment resources and training**](#_rl6yxbqllni6) **3**

[**Appendix 1: Safety Training for Faculty Members at Remote Locations**](#_lh70f9ni92n9) **5**

# Occupational First Aid Level 1-3, CPR and AED

First aid is mandatory according to a list provided by Safety and Risk Services (SRS) (see Appendix 1 table 3), but not necessarily for every individual worker. **People need to be aware/volunteer if they are the designated first aid attendant.** UBC does not offer courses, therefore the courses below in the Vancouver area have been vetted by the local safety team and are recommended:

* <https://vancouverfirstaid.ca/about/locations/ubc/> (holds courses at UBC, but not affiliated)
* <https://www.redcross.ca/training-and-certification>
* <https://www.sja.ca/English/Pages/default.aspx>

# Wilderness First Aid

Not mandatory from WorkSafeBC perspective, but could be necessary and desired depending on the field work. **A person needs to be aware/volunteer if they are the designated WFA attendant in a team.** If you have backcountry hazards and risks you would like to minimize, we recommend taking one of the courses below:

* Slipstream:<https://wildernessfirstaid.ca/> (sometimes discount offered through VOC)
* Canada West Mountain School:<https://themountainschool.com/product-category/wilderness-first-aid/>
* Coast Wilderness Medical Training: <https://www.wildernessfirstaidtraining.ca/>
* <https://www.redcross.ca/training-and-certification/course-descriptions/first-aid-at-home-courses/wilderness-remote-first-aid-program>
* Varsity Outdoors Club (VOC) would be a good resource to ask about courses and discounts.

# Bear Aware, How to use bear spray

If working in bear country, field workers should read the BC Forestry Bear Safety Resource Package and learn how to use bear spray. We have included this resource package and some youtube videos to serve as informational resources. If additional training is needed or wanted, there are several options for online courses.

* BC Forestry Bear Safety Resource Package:<https://www.bcforestsafe.org/files/Bear%20Safety%20Resource%20Package.pdf>
* Parks Canada bear spray video:<https://www.youtube.com/watch?v=aIvpLzHiCrg>
* Alberta government bear spray video: <https://www.youtube.com/watch?v=VDgBY2PbnO4>
* **Online course with certificate -** Canada Safety Training Center:<https://www.canadasafetytraining.com/ProductDetails.aspx?ProductID=208>
* **Online course -** Non-lethal bear management techniques:<https://www.bearscare.ca/contact-us>

# Driving trainings, defensive driving, trailer towing

Field workers may need to drive in different environments, on different types of roads, and in different vehicles than they may be accustomed to. Please ensure field workers know how to drive in the setting where they will be working and that they are comfortable doing so. If additional driving training is necessary, here are some options:

* Thinking Driver (defensive, good-decision making, on/off road, 4-wheel drive theory, reverse driving, winter driving, Trailer towing): <https://www.thinkingdriver.com/>
* This course depends on the area of research, the local traffic patterns, road conditions and importance of driving near or on industry properties.
* For any other specialty training to help mitigate risks at your field site please contact the local safety team.

# Helicopter safety

This **online awareness course** covers the topics of Helicopter Safety. Topics include everything from flight briefings, how a helicopter flies, PPE, and crash survival.

* <https://www.rescuecanada.ca/shop/occupational-helicopter-safety-training-online-awareness/>

# H2S Alive

If working near well pads or drilling.

* <https://www.pacificrimsafety.ca/programs/h2s-alive-enform/>
* https://www.ohandscanada.ca/safety\_courses\_and\_training\_main/h2s-alive/

# Avalanche Safety Training (AST) 1

If field workers work in the backcountry during winter, avalanche safety training may be necessary. Many options for AST here in Vancouver and Sea to Sky corridor. We recommend taking one of the courses below:

* Learning about winter backcountry safety via online tutorial: <https://avysavvy.avalanche.ca/>
* **Course with certificate -** Canada West Mountain School: <https://themountainschool.com/program/ast-1-mt-seymour-2018/>
* **Course with certificate -** Grouse Mountain: <https://www.grousemountain.com/products/avalanche-skills-training-level-1>
* **Course with certificate -** Altus Mountain Guides: <https://altusmountainguides.com/avalanche/ast-1/>

# **Glaciology training**

The LST recommends that research groups within EOAS that conduct studies on glaciers to complete a yearly refresher course on glacier travel and crevasse rescue from a certified person to minimize the safety risks.

* Crevasse rescue course: <https://themountainschool.com/program/crevasse-rescue-2020/>; <https://altusmountainguides.com/mountaineering-learn/glacier-travel-and-crevasse-rescue-course/>
* Private course: <https://themountainschool.com/program/custom-alpine-guiding/>

# Transportation of Dangerous Goods (UBC)

This is an online course provided by UBC that may be necessary if transporting chemicals, compressed gas cylinders, or other potentially hazardous materials.

* **Online course with certificate:** <https://wpl.ubc.ca/browse/srs> (search in course list for Transportation of Dangerous Goods)

# Bystander intervention and anti-harassment resources and training

Online/outside UBC:

* Hollaback!**:** <https://www.ihollaback.org>
* Society of Economic Geologists (SEG) Webinar: Building Safe, Inclusive, and Respectful Spaces; Allyship and Bystander Intervention Strategies: <https://www.youtube.com/watch?v=mJ2FUh_uZeM>
* The Fieldwork Initiative: <http://fieldworkinitiative.org>
* Me Too Mining Association: <https://www.metoomining.com/training.html>
* De-escalation tips from the Crisis Prevention Institute <https://www.crisisprevention.com/en-CA/Blog/De-escalation-Tips>
* Workplace Violence and Harassment Worker Training from Worksite Safety <https://worksitesafety.ca/product/training/online/violence-harassment-workers/?gclid=Cj0KCQjwyN-DBhCDARIsAFOELTlAzRrPtMiZ1-FYcm3317yPHxsForulG9cvs5Bl4WJxBpeZ2uLzLJoaAlvHEALw_wcB>

At UBC:

* UBC workshops through the AMS Sexual Assault Support Center: <https://www.amssasc.ca/education/workshops-available/>
* UBC workshops through Equity and Inclusion Office: <https://equity.ubc.ca/how-we-can-help/training-and-education/custom-workshops-training/>

Other resources:

* Compilation of resources for field work inclusivity: <https://serc.carleton.edu/advancegeo/resources/field_work.html>
* Safe Fieldwork Strategies for At-Risk Individuals: <https://www.preprints.org/manuscript/202008.0021/v1>

**Additional information**

Some areas of research do not have specific training resources, professors will provide the necessary information to mitigate risks, we suggest wilderness first aid or first aid for personal comforts. If you do not feel safe in these research areas please talk to your supervisor and if that is not possible reach out to a member of the local safety team or the grad rep (<https://www.eoas.ubc.ca/about/safety/eoas-local-safety-team>).

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# **Appendix 1: Safety Training for Faculty Members at Remote Locations**

 For faculty members, there needs to be minimum levels of first aid. This is determined through the first aid assessment. Each location could require another first aid assessment because each location will pose different risks and distance away from a hospital. Once the first aid assessment is complete, we are able to determine what the minimum levels of first aid are.

In regards to students, if someone is trained in first aid, they are able to give first aid to students in good faith under the Good Samaritans Act. This could be any type of first aid which includes Occupational First Aid. Although we would have no legal obligation under the Act to have first aid for students who are not UBC employees, we would still have a moral duty of care for these students. It is recommended that we eliminate the distinction between faculty and students, and have them grouped together. When completing the first aid assessment, the total number of faculty and students on the expedition will help determine the level of first aid and equipment required.

The minimum levels of first aid are outlined in *Schedule 3-A Minimum Levels of First Aid.* The table below is an example of a workplace that creates a moderate risk of injury, and is more than 20 minutes away from a hospital:

**Table 3.** This table applies to a workplace that an employer determines under section 3.16 (2)(b) of the Regulation creates a moderate risk of injury and that is more than 20 minutes surface travel time away from a hospital.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Number of workers per shift** | **Supplies, equipment, and facility** | **Level of first aid certificate for attendant** | **Transportation** |
| 1 | 1 | Personal first aid kit |   |   |
| 2 | 2-5 | Level 1 first aid kit | Level 1 certificate |   |
| 3 | 6-15 | -Level 1 first aid kit-ETV equipment | Level 1 certificate with Transportation Endorsement |   |
| 4 | 16-50  | -Level 3 first aid kit-Dressing station-ETV equipment | Level 3 certificate | ETV |
| 5 | 51-100 | -Level 3 first aid kit-First aid room-ETV equipment | Level 3 certificate | ETV |
| 6 | 101-300 | -Level 3 first aid kit-First aid room-Industrial ambulance equipment | Level 3 certificate | Industrial ambulance |
| 7 | 301 or more | -Level 3 first aid kit-First aid room-Industrial ambulance equipment | 2 attendants, each with Level 3 certificates | Industrial ambulance |

There is nothing to say that faculty and students can’t take wilderness first aid. It would be beneficial for faculty and students to take wilderness first aid training, but it is not a requirement if we are looking at it from a WorkSafeBC perspective. This course would be taken in addition to whatever the OFA requirements are for that specific collection.