

**Sierra Avalanche Center
Avalanche Level 1 for Motorized Users
2022 Course Syllabus**

Course Summary

This course provides an introduction to avalanche risk management for motorized users. Learning will occur through pre-course reading and work, a brief classroom session, and field practice. This course follows the guidelines for Recreational Level 1 Avalanche Training as established by the American Avalanche Association.

Schedule

All three days will run from 9am-5pm. The first day will begin with a classroom session before transitioning to the field. The following two days will be entirely in the field. Instructors will communicate specific plans prior to and throughout the class. Attendance and participation in the full class is mandatory.

Course Requirements:

Participants must:

- Have the ability to ride off-trail in variable conditions. Participants who struggle to ride off-trail in variable conditions may jeopardize the experience of others - please do not overestimate your riding ability.
- Bring a functioning beacon, shovel, and probe. Beacons should be modern three-antennae, shovels should be made specifically for avalanche rescue, and probes should be 270cm or longer. Avalanche gear must be worn/carried on self, and not in tunnel bag. An extra shovel in tunnel bag is recommended.
- Wear a DOT or similarly approved helmet and weather-appropriate gear.
- Ride a reliable, well maintained snowmobile/snowbike, capable of off-trail travel. Machines must be registered with visible registration markings. Spare belts and repair kits are strongly recommended. Poorly maintained machines and/or machines not intended for off-trail travel may jeopardize the experience of others.
- Read the required materials prior to the first day of class, and apply the Daily Flow and Alerts stickers to machines for easy reference while riding.
- Bring a radio capable of operating on [FRS/GMRS frequencies](#).

Required Text and Materials:

- [The SAC Daily Flow](#) user guide and video. A paper copy of *The SAC Daily Flow* book will be provided in class.
- Avalanche Canada's [online tutorial](#). Some of the details are different from the Daily Flow, but the concepts are the same.
- Daily Flow and Alerts stickers, available for free at most regional powersports dealers. Additional stickers will be provided in class.

Learning Outcomes

The successful student will be able to:

- Recognize common themes in general risk management systems.
- Demonstrate familiarity with rescue gear, including completion of a simple, untimed companion rescue scenario.

(Learning Outcomes continued)

- Consider the qualities of riding partners as they relate to risk; including both avalanche and non-avalanche risk.
- Describe basic relationships between weather, snowpack, and avalanches.
- Access the SAC advisory and relate the danger rating, avalanche problem, and “Bottom Line” to potential avalanche risk.
- Based upon riding partners and anticipated conditions, create safety margins using terrain and/or timing.
- Confirm details with riding partners and use a simple plan as a group contract.
- Manage the riding group using communication techniques and spotting/spacing strategies for both non-avalanche and avalanche terrain.
- Use the SAC Conditions and Terrain Alerts stickers to maintain awareness of conditions and terrain while riding.
- Recognize the benefits of digging below the snow surface for increased awareness of the day’s conditions, and for contributing to lifelong learning.
- Participate in group discussions that link observed conditions to terrain use.
- Encourage partners to learn from each day by using daily debriefs.
- Submit observations to SAC using non-technical language and/or images and videos.