

Boeing Employees Alpine Society ICC Snow Outing

Overview

This outing is intended to be a review of basic snow and glacier skills, but also an introduction to some more advanced techniques. It will be a strenuous, fast-paced weekend with a lot of material to cover. The class will break up into groups of 4 to 6 students for this weekend, depending on the number of instructors we have. Each group will go to a different mountain area to practice the skills listed below. We will let you know at the Monday evening class who you will be climbing with and where you will be going.

Each group is responsible for arranging its own transportation, stoves, cooking utensils, and meals. Instructors will supply any technical gear required for their group. The students will supply personal gear and ropes. Be prepared for winter conditions, as the weather this time of year is quite unpredictable. Also, be sure to have fun!

Objectives

By the end of this class session, the student will be able to:

- 1. Perform basic snow skills including:
 - Proper use of ice axe while ascending/descending
 - Self arrest
 - Self belay
 - Climbing in balance
 - Plunge stepping
 - Glissading
- 2. Travel safely and route-find on snow and glaciers in the following conditions:
 - Dangerous terrain
 - High angle snow
 - High avalanche
 - Winter
- 3. Place snow protection and building snow anchors using:
 - Pickets / flukes
 - Deadman
 - Bollards
- 4. Communicate the pros and cons of using various belay techniques in different situations, make appropriate decisions on which technique to use, and perform each technique:



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- Quick belays (boot/ice-axe, carabiner/ice-axe)
- Anchored belays (standing and sitting hip, mechanical device)
- 5. Travel roped and handle the rope properly on snow and glaciers in:
 - 2-person teams
 - 3-person teams
 - 4+ person teams
- 6. Use avalanche beacons and appropriate search techniques to rescue a victim.
- 7. Communicate the pros and cons of various types of snow shelters, make appropriate decisions on which type to build, and build a snow shelter.
 - Snow cave
 - Ranger trench
 - Igloos
- 8. Preform crevasse rescue techniques:
 - Self-rescue using Texas prusik and chest harness
 - z-pulley system
 - 2-person rope team rescue

Since we will not be on a glacier, we may substitute steep snow, moats, etc. as necessary for crevasses. Each student will practice two-man crevasse rescue.

Required Reading

Chapters on Snow Travel & Climbing, and Glacier Travel & Crevasse Rescue from "Mountaineering Freedom of the Hills".

Special Equipment

- Cold weather bivouac gear
- Rope, harness, 3 slings (1 double), 2 locking carabiners for harness; 3 standard biners
- Belay/rappel device; prussik loops
- Glacier prussiks/ascenders, rescue pulley
- Shovel
- Avalanche transceiver
- Snow protection (picket/fluke)
- Helmet



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• Snowshoes/crampons

Logistics

Meeting places, travel, group gear, and cooking arrangements will be determined after the group is announced at the Monday classroom session.

ICC Snow Outing Skills Checklist

Route finding:	Roped Travel:
Map and compass skills	2 man team
Climbing Skills:	Avalanche conditions:
Self-arrest; head first on back	Watching weather reports before heading out Assessing current conditions Digging a snow pit What to do when caught in an avalanche Beacon searches Ideally, what should happen in case of avalanche in more or less this order, are the following: 1. Observe victim/gear path and disappearance point. 2. Someone take charge. 3. Uphill observer stationed. 4. Packs placed in safe spot. 5. Evacuation route to safety established. 6. Survivor's beacons to receive. 7. One or more sent to find beacon. 8. Remaining grab shovels off their packs and pursue searchers. 9. Tight coordination between shovelers and searchers in final stages.
Belays:	scarchers in indi stages.
Hip belay Boot axe belay Carabiner/ice axe belay Hip belay Device belay Choosing which belay Shelters:	Crevasse rescue: Self-arrest; catching others on rope team (repeat) Z-pulley 2 person rope team rescue
Tents vs. bivy vs. conditionsVarious snow cave possibilitiesRanger trenchIgloo	