

OUTLINE ITINERARY

Overview/Summary:

Day: 0 Program Intro, meet and greet, team breakout, gear shakeout
Days: 1 - 2 Technical Ice Climbing Movement, Ice Anchors, Rescue Systems

Days: 3 - 4 Backcountry Ski Touring Level 1

Days: 5 - 7 Level 1 Avalanche Course & Companion Rescue

Days: 8 - 10 Backcountry Ski Touring Level 2, Weapons/Ski Biathlon, Night Ops

The following list is not meant to be exhaustive in terms of what can be covered in the 10 day Cold Weather & Technical Mountain Training Module. The curriculum and amount of time spent can be tailored to the teams preferred outcomes and objectives.

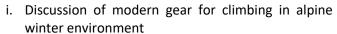
Days 1 – 2 Technical Ice Climbing Skill Progression

Location(s): City of Ouray, Ouray Ice Park, Ouray Backcountry Ice Venues

- 1. Technical Skills | Ice Climbing | Rescue
 - a. Knot classfications (6.3.1)
 - b. Tie knots (6.3.2)
 - c. Perform Rope Management (6.3.3)
 - d. Perform Mountain Walking Techniques (6.3.4)
 - e. Perform Balance Climbing Techniques (6.3.5)
 - f. Select Climbing Routes (6.3.6)
 - g. Care for Climbing Equipment (6.3.7)
 - h. Use Belay Systems (6.3.8)
 - i. Use Climbing Communications (6.3.9)
 - j. Perform Rope Ascent Using
 - 1. Friction Knots (6.3.10.1)
 - 2. Ascension Devices (6.3.10.2)
 - k. Perform Lead Protection Placement
 - 1. Aided (6.3.11.1)
 - 2. Unaided (6.3.11.2)
 - 3. Construct Anchors (6.4)
 - I. Rappel Using
 - 1. Standard & Non-Standard Techniques (6.5.1)
 - 2. Knot Bypass Procedures (6.5.2)
 - 3. Retrievable Rappel System (6.5.3)

m. Snow & Ice Climbing

- 1. Perform Ice Axe Arrest (6.6.1)
- 2. Perform Cramponing (6.6.2)
- 3. Construct Snow & Ice Anchors (6.6.3)
- 4. Place Snow/Ice Protection (6.6.4)



- ii. Ropework physics and principles
- iii. Toproping ice to develop technique
- iv. Terrain evaluation
- v. Alpine Ice Movement and Leading Ice
- vi. Team movement on ice
- vii. Basic ice anchor introduction and belay considerations on ice
- viii. Belay escapes
- ix. Risk management approaches
- x. Approaches to ice rescue including rescuing the leader and rescuing the second
- xi. Lead climbing technique including single pitch and multi-pitch approaches
- xii. Multi-pitch transitions
- xiii. Bottom-up rescue and lead climbing strategies
- xiv. Belay escapes and various plaquette transitions

Days 3 - 4 Backcountry Ski Touring Level 1

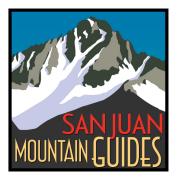
Location: San Juan Mountains, Red Mountain Pass.

On the morning of February 4 the team will transition to lodging at our high mountain cabin known as the Powerline Red Mountain Yurts. Individual per diem lodging and food charges will apply.

- 1. Backcountry Snow & On Snow Travel
 - a. Fundamentals of snow travel (6.7.1)
 - b. Skiing Techniques (6.7.3
 - i. Backcountry/Cross Country ski techniques
 - ii. Self arrest w/ski poles
 - iii. Uphill track setting
 - iv. AVA Turns & Kick Turns
 - v. Use of Climbing Sking, field care and repair
 - vi. Powder Skiing techniques
 - vii. Group management in ascent/descent
 - viii. Uphill and downhill transitions
 - ix. Braced sideslipping

2. Snow and Glacier Travel Movement Skill Development & Backcountry Shelter construction

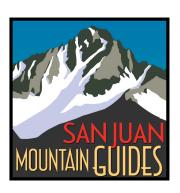
- **1.** Snow and Glacier Travel
 - a. Snow/Glacier characteristics affecting travel (6.7.2)
 - b. Construct Snow Anchors (6.6.3)



- c. Place Snow Anchors (6.6.4)
- d. Crevasse Rescue Procedures (6.7.5)
 - i. Rope techniques for glaciated terrain
 - ii. Anchoring systems for crevasse rescue
 - iii. Escaping the system
 - iv. 2:1, 3:1, 5:1, & 6:1 Mechanical Advantage Hauling Systems
 - v. Team Extrication Methods

2. Snow Shelters

- a. Selecting Alpine Bivouac Spots
- b. Snow shelter construction
- c. Alternative shelter options



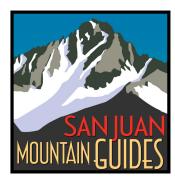
Days 5 – 7 Avalanche Hazard & Rescue – Level 1 Avalanche Certification

Location(s): Red Mountain Pass. Overnight lodging: Powerline Red Mountain Yurts.

- 1. Avalanche Hazard and Rescue
 - a. Avalanche Causes (6.8.1)
 - b. Avalanche Hazard Prediction Methods (6.8.2)
 - c. Avalanche Survival Actions (6.8.3)
 - d. Avalanche Rescue Equipment Requirements (6.8.4)
 - e. Perform Avalanche Rescue Scenarios (6.8.5)
 - f. Perform Avalanche Hazard Crossing (6.8.6)
 - i. Introduction to avalanche phenomena and decision making in avalanche terrain
 - ii. Understanding predictable snowpack variations by geography an international approach
 - iii. Identify avalanche causes
 - iv. Snowpack evaluation methods
 - v. Travel techniques in avalanche terrain
 - vi. Protocol based routefinding in avalanche terrain
 - vii. Avalanche companion rescue
 - viii. Multiple victim avalanche rescue
 - ix. Deep burial avalanche rescue
 - x. Avalanche survival techniques
 - xi. Avalanche hazard crossing
 - xii. Standard and non-standard snow instability analysis

Days 8 - 10 Backcountry Ski Touring Level 2, Weapons/Ski Biathlon, Night Ops

Location(s): Red Mountain Pass. Overnight lodging: Powerline Red Mountain Yurts.



1. Backcountry Snow & On Snow Travel

- a. Fundamentals of snow travel (6.7.1) continued
- b. Skiing Techniques (6.7.3) continued (off piste skiing/advanced survival skiing)
- c. Continuation of Following Skills
 - i. Backcountry/Cross Country ski techniques
 - ii. Self arrest w/ski poles
 - iii. Uphill track setting
 - iv. AVA Turns & Kick Turns
 - v. Use of Climbing Sking, field care and repair
 - vi. Powder Skiing techniques
 - vii. Group management in ascent/descent
 - viii. Uphill and downhill transitions
- d. Route and time planning in an Alpine Environment
 - i. The Munter Method
 - ii. Map & Navigation Assets Review
 - iii. Alpine Rescue Techniques
 - iv. Whiteout Navigation Planning

2. Ski Biathlon - Short to Medium Range Point Target Engagement with Weaponry

- a. Mountain/Alpine Carrying & Concealment
- b. Cold weather and altitude considerations
- c. Reflection, Coloration considerations
- d. Unobserved movement in snow/alpine terrain
- e. Considerations for Night Ops NVG movements