



canadianavalancheassociation

## Avalanche Operations Level 3 Applied Avalanche Risk Management

### Sample Schedule

*Note: As with any tentative schedule, changes will be made as required to deliver the course.*

### Day 1

#### *Morning Session*

0800	Welcome: Introduction to course
0830	Lecture: Terms and Definitions
0900	Lecture: Principles in Hazard and Risk
1030	Break
1045	Lecture: Hazard Analysis, Assessment, and Forecasting
1145	Hand out p.m. exercise materials

#### *Afternoon Session*

1300	Case Study in hazard analysis
1400	Lecture: Reasoning and Logic in Avalanche Forecasting
1530	Break
1545	Lecture: Evaluation of Latent Risk in your Workplace (Identification of latent and active risks, Application of Reason's Model etc.)
1645	Wrap Up Discussion

### Day 2

#### *Morning Session*

0800	Lecture: Heuristics and Bias
0845	Case Study Avalanche Risk Management
1045	Break
1100	Lecture: Confidence and Uncertainty

#### *Afternoon Session*

1300	Lecture: Scale in Hazard and Risk Analysis
1330	Break
1345	Case Study: Highways: Forecasting, Confidence and Uncertainty, Decision Making (Objective: Apply/link confidence and uncertainty to operations)
1545	Wrap Up Discussion

## **Day 3**

### *Morning Session*

- 0800 Lecture: Strength and Weight of Evidence
- 0930 Break
- 0945 Case Study: Hazard Forecasting for Transportation
- 1045 Quantitative Risk Determination
- 1115 Case Study Ski Area, Part 1

### *Afternoon Session*

- 1300 Case study Ski Area, Part 2
- 1500 Break
- 1515 Lecture: Risk Perception
- 1545 Wrap up Discussion

## **Day 4**

### *Morning Session*

- 0800 Lecture: Risk Communication
- 0900 Lecture: Avalanche Risk Management
- 1100 Break
- 1115 Case Study: Avalanche Risk Assessment and Control  
(Objective: Effective Risk Management)

### *Afternoon Session*

- 1300 Lecture: Benefit/Cost Analysis
- 1345 Lecture: Public Communication Exercise
- 1445 Lecture: Workplace Communication
- 1515 Wrap up discussion

## **Day 5**

### *Morning Session*

- 0800 Case Study Rogers Pass 2002-2003, Part 1: Application of Hazard Forecasting  
(Objective: Work through a winter: Summary, notable events, lessons learned from case studies)
- 1000 Break
- 1015 Case Study Rogers Pass 2002-2003, Part 2: Exercise in Rogers Pass  
(Consideration of strength and weight of evidence, elements at risk and their vulnerability, confidence and uncertainty, evaluating likelihood of triggering, forecasting avalanche size.)
- 1215 Hand out evaluation project guidelines prior to lunch break

### *Afternoon Session*

- 1300 Lecture: Avalanche Safety Plans
- 1330 Guidelines for student case studies for evaluation and marking process
- 1430 Question and Answer Session/Issues
- 1530 Course conclusion