

## Practice meets science

International advanced training course on “Snow and Avalanches”  
6 – 10 February 2023 in Davos

## Approximate program

The course begins on Monday at 8:15 h

Monday, 6 February 2023

### Avalanches in Switzerland and history of SLF

#### Snow physics

#### Avalanche formation

Coffee break

#### Exercise: Avalanche formation and snowpack interpretation

Lunch break

#### Avalanche forecasting

#### Opportunities and limitations of avalanche forecasts

Coffee break

#### Exercise: Assessment of avalanche danger

Ice breaker

Tuesday, 7 February 2023

### Snow profile observation and stability tests

#### Field day: Snow profile observation and stability tests

Lunch in the field

#### Snow profile and stability evaluation

#### Presentation of results and evaluation by each group

#### Snow profile interpretation

Science event at SLF

Wednesday, 8 February 2023

**Avalanche history Davos**

**Avalanche dynamics**

**Avalanche hazard mapping**

Coffee break

**Human factors in decision making**

Lunch break

**Wet- and glide-snow avalanches**

Separate programs for module 1 and 2

Module 1	Module 2
<b>Snow mechanics</b>	<b>Temporary protection measures</b>
<b>Snowpack stability: Layering and variability</b>	<b>Artificial avalanches release</b>
Coffee break	
<b>Measuring snow properties (PST, SMP)</b>	<b>Avalanche detection</b>
<b>Assessment of avalanche hazard in the backcountry</b>	<b>Exercise: Road closure, yes or no?</b>
	<b>Case study</b>

Thursday, 9 February 2023

Separate programs for module 1 and 2

Module 1	Module 2
<b>Field day: New methods for field measurements</b>	<b>Permanent protection measures</b>
	Coffee break in the Hotel
	<b>Experience of a local avalanche service</b>
	<b>Field day: Avalanche mitigation</b>
Coffee break in the Hotel	<b>Visit Jakobshorn patrollers, Davos Frauenkirch and Klosters</b>
<b>Snow profile and stability evaluation, discussion and reflection of the field day</b>	
<b>Principles of snow cover models</b>	
Social event: Visit to local brewery and dinner in Monstein	

Friday, 10 February 2023

Separate programs for module 1 and 2

Module 1	Module 2
<b>Snow stability evaluation and interpretation of measurements from previous field day</b> <b>Summary of the key facts:</b> <b>“The big picture”</b>	<b>RAMMS: Rapid mass movement simulations</b>  <b>Practical use of avalanche modeling</b>  <b>Recent model developments – Application in practice</b>
Coffee break	
<b>Synthesis of course: Final discussion</b>	<b>Synthesis of course: Final discussion</b>
<b>Answers to open questions</b>	
<b>Key points of synthesis</b>	
Lunch buffet	
<b>RAMMS workshop (optional)</b>	