Japan Avalanche Network

Avalanche Operation Level 1　DACUM

When reading the following course goals and learning objectives, assume that each goal and objective begins with the following phrase:

**By the end of the course/lesson, learners will be able to…*

Course Goals		Related Learning Objectives					
		1	2	3	4	5	6
A	**State the nature of avalanches**	State the snowpack properties necessary for the formation of avalanches	Describe the characteristics of avalanches	Describe the size of avalanches	Describe the motion characteristics	Describe the mechanics of snow failure and fracture	
B	**State the hazards of avalanches**	State the hazards of avalanches to people and property	Describe the effect of avalanches in Japan	Define avalanche danger ratings	Describe industrial avalanche protection		
C	**Describe and classify avalanche terrain**	Identify and describe avalanche paths	Describe avalanche terrain	Apply a classification scheme to mountain terrain	Select safe routes and identify safe areas in avalanche terrain		
D	**Describe the properties of the mountain snowpack**	Describe the formation of the mountain snowpack	Describe snowpack metamorphism	Describe the significance of weak layers in the snowpack	Describe how the snowpack varies over terrain	Describe how snowpack varies over seasons	
E	**Describe, collect & record weather data**	Observe & record study plot weather data	Observe & record field weather data	Explain basic weather concepts	Obtain and apply a weather forecast		

F	**Collect & record snowpack data**	Observe & record snowpack layer boundaries	Observe, classify & record layer properties	Observe & record snowpack temperatures	Demonstrate & record snowpack tests	Plot snow profiles	Identify significant profile properties
G	**Collect avalanche occurrence data**	Apply the avalanche size classification scheme	Observe & record avalanche occurrence data				
H	**State the factors and methods used in avalanche hazard evaluation**	Describe the significant factors used in snow stability evaluation	Demonstrate the use of stability & hazard ratings to evaluate avalanche hazard	Communicate significant weather & snowpack data	Define likelihood and consequences; exposure and vulnerability; frequency and magnitude	Discuss the differences and applications of the terms: avalanche risk, danger, hazard and snow stability	
I	**Apply risk control methods**	Describe the rationale for risk control and safety measures	Describe pre-trip preparation for backcountry travel in avalanche terrain.	Apply appropriate risk reduction when traveling	Describe significant human factors in avalanche work		
J	**Conduct avalanche search and rescue**	Demonstrate proficiency with avalanche transceivers by locating 2 victims in a approx. 1600m (40 m by 40 m) area within 15 minutes	Demonstrate effective pinpoint probing for an avalanche victim	Demonstrate the organization of 2 helpers in effective strategic shoveling for an avalanche victim	Demonstrate initializing a professional rescue response by securing the scene, a witness interview and first call to base	State the components of organized rescue plans	
K	**Describe the scope of practice for L1 ski operations**	Discuss L1 mentorship	Discuss continuing professional development	Discuss the roles and responsibilities of L1 graduates			

**Each goal and objective may be comprised of several classroom and field based lectures.*