



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	<b>Interpret avalanche terrain using air photos</b>	Identify relevant air photos for particular projects	Obtain air photos from suppliers (e.g. UBC, BC Government)	Evaluate the differences in air photo scales	Use stereoscopes correctly	Calculate specific scales from air photos of various general scales	Recognize types of avalanche terrain from air photos
		Identify forest cover types & geographic terrain features					
B	<b>Evaluate avalanche terrain using topographic maps</b>	Identify relevant topographic maps for particular projects	Obtain maps from suppliers	Identify and calculate topographic map scales	Locate avalanche terrain on topographic maps	Measure avalanche terrain using topographic maps	Calculate slopes from topographic maps
C	<b>Apply computer-based mapping technologies to avalanche terrain mapping</b>	Identify and source different types of computer-based imagery and GIS tools	Identify applications to avalanche mapping	Describe limitations of alternative imagery and GIS tools	Identify avalanche terrain using computer-based imagery and GIS tools		
D	<b>Conduct relevant field work</b>	Demonstrate appropriate use of field equipment specific to avalanche mapping	Measure slope angles	Survey avalanche slopes and produce slope profiles	Categorize vegetation by species and density	Evaluate ages of different tree species by estimation and use of an increment borer	Interpret forest growth and vegetation damage, distinguishing avalanche damage from other disturbances

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<b>E</b>	<b>Analyze climate data</b>	Identify relevant climate data	Obtain climate data	Describe limitations of climate data	State weather and snowpack conditions that produce major avalanches	Analyze climate and historical snowpack data	
<b>F</b>	<b>Analyze avalanche occurrence data</b>	Identify relevant avalanche occurrence data	Obtain avalanche occurrence data	Describe limitations of avalanche occurrence data	Analyze avalanche occurrence data		
<b>G</b>	<b>Estimate avalanche frequency and magnitude</b>	Analyze avalanche motion	Compile climate, avalanche occurrence, and field data	Estimate avalanche frequency and magnitude from compiled data			
<b>H</b>	<b>Present data</b>	Create an avalanche locator map	Locate outline of a path on a topographic map and an oblique photo	Construct a slope profile from topographic analysis and survey results	Map relevant vegetation information	Describe the industry standard for avalanche atlases	Present avalanche path summary

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