



Introduction to Avalanche Control Blasting

*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	Explain the role of explosives in avalanche control	Review key factors important in the formation of avalanches	Define avalanche control and list different avalanche control techniques	Explain snowpack characteristics that affect the efficacy of explosive control	Explain the importance of timing and location with regards to shot placement		
B	Describe explosives and how to assemble them	Identify constituent components of explosives used in avalanche control	Explain how explosives detonate	List explosives commonly used in avalanche control	Describe where explosives should be assembled	Describe procedures for assembling explosives	Describe procedures for disassembling explosives
C	Describe regulations governing the use of explosives	List regulatory bodies, blaster responsibilities, and certification requirements	Explain procedures and requirements for transporting explosives				
D	Describe requirements for storing explosives	List types of magazine acceptable for explosive storage	Explain why charges and fuse assemblies must be stored separately	Explain requirements for magazine security	Describe the signage required at a magazine site	Discuss criteria for locating a magazine	
E	Describe procedures for explosive deployment	Describe procedures for securing an area prior to blasting	Explain procedures for hand charge placement	Explain procedures for Avalauncher use	Explain procedures for helicopter deployment of explosives	Explain procedures for cornice blasting	Explain procedures for case charging
E	(cont.)	List other methods of explosive deployment used in	Discuss options for tricky or unusual shot placements	Explain requirements for post-blast	Describe procedures for dealing with		

		avalanche control		inspection	misfires		
F	Describe recording procedures	List the elements recorded in a blaster's log	List the elements recorded in a magazine log	Discuss procedures for checking in and checking out explosives			
G	Describe procedures for disposing of explosives	Explain conditions that lead to the deterioration of explosives	Explain circumstances under which explosives may need to be disposed of	Describe acceptable techniques for disposing of explosives			