

Colorado Outdoor Recreational Leadership Course Scope and Sequence

Course Name	Snow Tech	Course Detail	s			
		Course = 0.50 Unit Credit	Carnegie			
Course Description						
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all essential knowledge and skills are covered.					
SCED Identification #	speakers, stude	lation based on 60% of a semester instructional time. Scope and sequence allows for additional time for guest ent presentations, field trips, remediation, or other content topics.				
All courses taught in a			led into the course content. The ndardsandinstruction/essent	e Essential Skills Framework for this course can alskills		
Unit Number, Title and Brief Description	Topics	Competency / Performance Indicator	Outcome / Measurement	CTSO Integration		
	History of Ski Construction					
Unit 1: Ski/board Fabrication	Varieties of Skil construction, materials, and design					
	Ski construction processes					
Unit 2: Alpine Ski/Snowboard Tuning	Base Repair					
	Base Grinding/Maintenance	Structure and Ski Performance				
	Edge Tuning	Side base bevel	Bevel angles and ski performance			
		Polishing				
	Base Cleaning/prep	Tashuisuusa				
	Base Wax	Techniques Temperature changes	Chemical composition of different color waxes			
		Varieties and materials				
	Machine tuning basics					
Unit 3: Bindings	History of ski/snowboard bindings					
	Binding anatomy	Alpine Telemark Alpine Touring				
	Binding Function and	Snowboard Forward Pressure				
	Adjustment	Retention Settings	DIN/ISO Standards			

				Learning that works for Colorado
			Torque Test	
	Diadia a Maxuatia a	Equipment	Jigs, Bits, Taps	
	Binding Mounting	Processes		
Unit 4: Nordic	History			
	Binding systems/norms			
	Tuning	Base Prep and Waxing		
		Binding Mounting		
	Nordic Grooming			
Unit 5: Boot Fitting	Boot History			
	Boot Design and Materials			
	Foot and leg anatomy			
	Boot Fitting Processes	Foot/leg measurements		
		Compatibility		
		Boot Adjustment Procedures		
Unit 6: Adaptive	History of Technological Innovation			
	Equipment Design and Maintenance	Stand	Outriggers	
			Slider	
			Rider Bar	
		Sit	Mono-Ski	
			Bi-Ski	
		Visually Impaired	Digital guiding system	
Unit 7: Snow Industry & Career Exploration	Site Visits	Grooming		
		Snow Making		
		Lift Maintenance		
		Rental/Retail		