ς	wiss	Alnine	Rescue	 Manuel 	Contents
_	88100	Aibillo	1103040	Managi	OUIICOIICO

1	INTRODUCTION		2	FUNDAMENTALS		3	IMPROVISED RESCUE TECHNIQUES	
1.1	Preamble	7	2.1	Basic training	6	3.1.	Introduction	
1.2	Foreword	8	2.2	Safety measures	7	3.2	Pulley systems	
1.3	Basic information	9	2.2.1	Equipment	7	3.2.1	General information	
1.3	Dasic information	3	2.2.2	Training	7	3.2.2	Pulley systems with a single rope and technical aids	
1.4	Glossary	11	2.2.3	Redundant procedures	8	3.2.2.1	Single pulley system	
1.5	Publication details	14	2.2.4	Number of single ropes	8	3.2.2.2	Double pulley system (Swiss pulley system)	
1.5	r ubilication details	14	2.2.5	Securing rope ends	8	3.2.2.3	Other pulley systems	1
1.6	Acknowledgements	15	2.3	Anchor systems	9	3.2.2.4	Austrian pulley system	1
			2.3.1	General information	9	3.2.3	Pulley systems with a double rope and technical aids	1
			2.3.1	Rock	9 11	3.2.3.1	Single pulley system with a double rope	1
			1		11	3.2.3.2	Double pulley system (Swiss pulley system)	
			2.3.2.1	Three-point anchor system			with a double rope	1
			2.3.2.2	Equalised anchor system	13	2.2	Assauding a fuse housing your	
			2.3.2.3	Line of anchors	15	3.3	Ascending a free-hanging rope	
			2.3.2.4	Anchoring the rope end with a double figure		3.3.1	General information	1
				of eight loop (bunny ears)	15	3.3.2	Ascending the rope over a short distance	1
			2.3.3	Snow and ice	16	3.3.3	Ascending the rope over a long distance	1
			2.3.4	Towers, masts, trees, meadows, debris, unstable terrain	17			
			2.3.5	Rope guard and fixed rope	18			

Page 1 29. Juli 2012

Alpine Rescue • Manuel • Contents							
RESCUE TECHNIQUES _ (Part 1)		4.3.3.2	Components and operating elements	48	4.7.2		48
nescot reclinitoes – (rait i)		1	=		1		48
Introduction	7	1			1	• •	48
Search operations	7	4.3.3.5	Servicing/maintenance	66	4.7.2.3	Transporting an accident victim	49
General information	7	4	RESCUE TECHNIQUES – (Part 2)		4	RESCUE TECHNIQUES – (Part 3)	
Organisation	8	1 4 4	Cable rescue device	7	12	Crovacca	7
Functions	8	1		7	1		7
Procedure	9	1		ρ	1		7
Missing person notification	10	1			1		Ċ
Phase 1: Clarification and investigations	10	1	=		1		c
Phase 2: Searching the primary area	12	1			1	·	c
Phase 3: Extending the search area	12	1			1		c
Interruption/termination of the operation	12	1			1		12
Risk assessment	13	1			1		12
Logging and documentation	14	1	·		1		21
Search resources	14	1		23	1		23
Search by "eye, ear and voice (calling out)"	14	4.4.4		25	1		25
Helicopter search	15		chairints, gondoid ints and cable cars	20	1		26
Search dogs	15	4.5	Rescue off a chairlift, gondola lift or cable car	26	4.0.3.3	Servicing/maintenance	20
FLIR	16	4.5.1	General information	26	4.9	Icefall	27
Tracing the position of mobile phones	16	4.5.2	Equipment	27	4.9.1	General information	27
Deployment tactics for search resources	17	4.5.3	Terrestrial rescue operation	28	4.9.2	Rescue operation	27
General information	17	4.5.3.1	Preparing the equipment kit	29	4 10	Troo	29
Appropriate search resources in high mountain regions	17	4.5.3.2	Lowering the rescuer on the twin-roller running gear	30	1		29
Appropriate search resources in skiing areas	17	4.5.3.3	The rescuer's descent to the passengers	31	1		29
Appropriate search resources in fields and forests	17	4.5.3.4	Rescuing the passengers, lowering them to the ground	33	4.10.2	nescue operation	Z
Posouo winohos	10	4.5.3.5	Lowering the rescuer from one chair or gondola to the next	35	4.11	(Transmitter) mast or structure	32
		4.6	Rannelling route	36	l .		32
		1	• • •		4.11.2	Rescue operation	32
		1			4.12	Via ferrata	35
		1			1		35
=		1			1		35
		1					
				00	1		38
		1	• •	42	1	General information	38
			· , ,	42	1	Equipment	36
		1		42	1	=	40
=		4.7.1.2		42	1		42
<u> </u>		1		43	4.13.5	Tasks/functions	44
		1		43			
		1		44			
donoral illiorination	7/	4.7.1.6	Tensile forces acting on the ropeway anchors	46			
	RESCUE TECHNIQUES – (Part 1) Introduction Search operations General information Organisation Functions Procedure Missing person notification Phase 1: Clarification and investigations Phase 2: Searching the primary area Phase 3: Extending the search area Interruption/termination of the operation Risk assessment Logging and documentation Search resources Search by "eye, ear and voice (calling out)" Helicopter search Search dogs FLIR Tracing the position of mobile phones Deployment tactics for search resources General information Appropriate search resources in high mountain regions Appropriate search resources in skiing areas	RESCUE TECHNIQUES – (Part 1) Introduction 7 Search operations 7 General information 7 Organisation 8 Functions 8 Procedure 9 Missing person notification 10 Phase 1: Clarification and investigations 10 Phase 2: Searching the primary area 12 Interruption/termination of the operation 12 Risk assessment 13 Logging and documentation 14 Search resources 14 Search by "eye, ear and voice (calling out)" 14 Helicopter search 15 Search dogs 15 FLIR 16 Tracing the position of mobile phones 16 Deployment tactics for search resources 17 General information 17 Appropriate search resources in high mountain regions 17 Appropriate search resources in fields and forests 17 Rescue winches 18 Paillardet winch, type Chamonix 18 General information 18 Components and operating elements 19 Using the winch 15 Troubleshooting 34 Servicing/maintenance 34 Tyromont fibre rope winch 35 General information 35 Components and operating elements 36 Using the winch 37 Troubleshooting 36 Servicing/maintenance 46 Wire rope rescue winch – Friedli winch 47	RESCUE TECHNIQUES - (Part 1)	Introduction 7 4.3.3.3 Using the winch 4.3.3.4 Troubleshooting 4.3.3.5 Servicing/maintenance 4.3.3.5 Servicing/m	Name	Name	RESCUE TECHNIQUES - (Part 1) 4 3 3.2 b. (augus tha word) Components and operating elements 45 4.2 c. (augus tha word) 61 4.2 c. (augus tha word)

Page 2 29. Juli 2012

Swiss	Alpine Rescue • Manuel • Contents							
5	AVALANCHES		6	HELICOPTERS		7	RESCUE DOGS	
5.1	Introduction	6	6.1	General information	6	7.1	Introduction	(
5.2 5.2.1 5.2.1.1 5.2.1.2 5.2.1.3 5.3	Organisation Functions The operations centre (OC) — Rega 1414 or OCVS/KWRO 144 The rescue station Accident site Operational procedure	7 9 9 9 10	6.1.1 6.1.2 6.1.3 6.1.4 6.1.5	Precautionary measures Landing site Marshalling Night missions Weather Boarding and alighting from a hovering helicopter	6 10 11 13 13	7.2 7.2.1 7.2.2 7.2.2.1 7.2.2.2 7.2.2.3	Avalanche dogs General information Training method Four-phase system Training to find several people Training to find an object	1 1 1;
5.3.1	Start-up phase	14	6.3	Helicopter with human external cargo (HEC)	15	7.2.2.4	Consolidation and correction training for finding objects	17
5.3.2 5.3.3 5.3.4 5.3.5	Phase 1 Phase 2 Phase 3 Interruption / termination	15 15 16 16	6.3.1 6.3.2 6.3.3 6.3.4	General information Procedures Rescue resources Handover/takeover from the pickup point	15 15 17 18	7.3 7.3.1 7.3.2 7.3.2.1	Terrain search dogs General information Training method Alert types	20 20 20 20
5.4	Risk assessment	18	6.3.4.1	Pickup point with no need to self-secure	18	7.3.2.2	Training to run and range out	22
5.4.1	Checklist "Rescue mission in winter"	18	6.3.4.2	Pickup point with a fixed self-securing system	20	7.3.2.3	Alerting with a "bringsel" (always wearing a vest)	24
5.5	Log and documentation	20	6.3.4.3 6.3.4.4	Pickup point with a detachable self-securing system Victim on a suspended rope: "rope-cutting rescue"	22 25	7.3.2.4 7.3.2.5	Alerting through barking (always wearing a vest) Control at a distance (working with buckets)	28 30
5.6	Search resources	21	6.3.4.5	Handover/takeover from a chairlift, gondola lift or cable car	27	7.3.2.6	Path search	32
5.6.1	Search by eye and ear	21	6.4	Search flights	33	7.4	Crevasse search dogs	37
5.6.2 5.6.3 5.6.3.1	Avalanche rescue beacon (RB) RECCO® Introduction	21 22 22	6.5	Safety during initial and repeat training	33	7.4.1 7.4.2 7.4.2.1	General information Training method Alert types	37 37 37
5.6.3.2	Knowledge of the devices and theoretical knowledge	22				7.4.2.2	Training system	37
5.6.3.3 5.6.4 5.6.5	Technique and methodology Avalanche dog Search with rescue beacon (RB) and RECCO® out of a helicopter	27 34 34				7.4.2.3 7.4.2.4 7.4.2.5	Differences in the training ground and in the individual phases Familiarisation with the crevasse area Mission on the glacier	3: 3:
5.6.6	Probing	34						
5.6.6.1	General information Coarse probing	34 36						
5.6.6.3 5.6.6.4 5.6.7	Fine probing Rapid probing (probing by just a few rescuers) Digging	37 38 39						
5.6.8 5.6.8.1	Deployment tactics for search resources General information	41 41						
5.6.8.2 5.6.8.3	Basic principles Possibilities at the start of the search	41 41						
5.6.8.4 5.6.8.5	Stepping up the search Final options (emergency solutions)	43 44						

Page 3 29. Juli 2012

Swiss	Alpine Rescue • Manuel • Contents				
8	INCIDENT COMMAND		9	COMMUNICATION	
8.1	Introduction	6	9.1	Communication equipment	6
8.2 8.2.1 8.2.2 8.2.3	Command activities Issuing the alarm and coordination Operational sequence of command activities Accompanying processes	7 7 8 11	9.1.1 9.1.2 9.1.3	Radio and radio relay Pagers Other communication equipment (mobile phone, Polycom, etc.)	6 15 18
8.3	Major incident command	12	9.2	Dealing with the media	18
8.3.1	Issuing the alarm for major incidents	12	9.3	Partner organisations	19
8.3.2	Command organs	13	9.4	Dobriofina	20
8.3.3	Coordination session	13	5.4	Debriefing	20
834	Organisation of the incident site	16			

Page 4 29. Juli 2012