

September 1976

TC 90-6-1



# MILITARY MOUNTAINEERING



*training for combat*

# Military Mountaineering Manual

**D Keegan**



## **Military Mountaineering Manual:**

**U. S. Army Military Mountaineering Manual** U. S. Army, 2019-09-09 BEWARE Many other sellers online are selling the Obsolete TC 90 6 1 Edition This is the updated official FM 3 97 61 which contains more pages and updated information The printed U S Army Mountaineering Manual is in the 8 5 x 11 inch format The book contains 287 pages Mountains exist in almost every country in the world and almost every war has included some type of mountain operations This pattern will not change therefore soldiers will fight in mountainous terrain in future conflicts Although mountain operations have not changed several advancements in equipment and transportation have increased the soldiers capabilities The helicopter now allows access to terrain that was once unreachable or could be reached only by slow methodical climbing Inclement weather however may place various restrictions on the capabilities of air assets available to a commander The unit must then possess the necessary mountaineering skills to overcome adverse terrain to reach an objective This field manual details techniques soldiers and leaders must know to cope with mountainous terrain These techniques are the foundation upon which the mountaineer must build They must be applied to the various situations encountered to include river crossings glaciers snow covered mountains ice climbing rock climbing and urban vertical environments The degree to which this training is applied must be varied to conform to known enemy doctrine tactics and actions This FM also discusses basic and advanced techniques to include acclimatization illness and injury equipment anchors evacuation movement on glaciers and training The book is created trusted and battle tested by the US Armed Forces It should be owned by every soldier and be part of every bug out bag and vehicle and used by preppers hunters climbers campers outdoorspeople hikers and anyone looking to survive natural or man made disasters Contents of the US Army Mountaineering Manual include Mountaineering Equipment Rope Management and Knots Anchors Climbing Rope Installation Stream Crossing Movement Over Snow and Ice Mountain Rescue Much Much More BUY YOUR COPY TODAY Military Mountaineering Department Of The Army Headquarters, Army Training and Doctrine Command, Army Center of Maneuver E, 2012-07 *Field Manual FM 3-97. 61 (TC 90-6-1) Military Mountaineering August 2002* United States Army, 2012-09-02 Mountains exist in almost every country in the world and almost every war has included some type of mountain operations This pattern will not change therefore soldiers will fight in mountainous terrain in future conflicts Although mountain operations have not changed several advancements in equipment and transportation have increased the soldiers capabilities The helicopter now allows access to terrain that was once unreachable or could be reached only by slow methodical climbing Inclement weather however may place various restrictions on the capabilities of air assets available to a commander The unit must then possess the necessary mountaineering skills to overcome adverse terrain to reach an objective This field manual details techniques soldiers and leaders must know to cope with mountainous terrain These techniques are the foundation upon which the mountaineer must build They must be applied to the various situations encountered to include river crossings glaciers snow covered mountains

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*Military Mountaineering: the Official U. S. Army Training Manual TC 3-97. 61 (FM 3-97. 61)* U.S. Department of the Army, Army Training and Doctrine Command, Army Center of Maneuver Excellence, 2013-01-18 This training circular details techniques Soldiers and leaders must know to cope with mountainous terrain These techniques are the foundation upon which the mountaineer must build They must be applied to the various situations encountered to include river crossings glaciers snow covered mountains ice climbing rock climbing and urban vertical environments The degree to which this training is applied must be varied to conform to known enemy doctrine tactics and actions This TC also discusses basic and advanced techniques to include acclimatization illness and injury equipment anchors evacuation movement on glaciers and training

**Military Mountaineering** Department of the Army, 2002-08-26 Mountains exist in almost every country in the world and almost every war has included some type of mountain operations This pattern will not change therefore soldiers will fight in mountainous terrain in future conflicts Although mountain operations have not changed several advancements in equipment and transportation have increased the soldiers capabilities The helicopter now allows access to terrain that was once unreachable or could be reached only by slow methodical climbing Inclement weather however may place various restrictions on the capabilities of air assets available to a commander The unit must then possess the necessary mountaineering skills to overcome adverse terrain to reach an objective This field manual details techniques soldiers and leaders must know to cope with mountainous terrain These techniques are the foundation upon which the mountaineer must build They must be applied to the various situations encountered to include river crossings glaciers snow covered mountains ice climbing rock climbing and urban vertical environments The degree to which this training is applied must be varied to conform to known enemy doctrine tactics and actions This FM also discusses basic and advanced techniques to include acclimatization illness and injury equipment anchors evacuation movement on glaciers and training This field manual is a training aid for use by qualified personnel in conjunction with FM 3 97 6 Mountain Operations which is used for planning operations in mountainous terrain Personnel using FM 3 97 61 should attend a recognized Department of Defense Mountain Warfare School for proper training Improper use of techniques and procedures by untrained personnel may result in serious injury or death Personnel should be certified

as Level I Basic Mountaineer Level II Assault Climber or Level III Mountain Leader before using FM 3 97 61 for training see Appendix A The measurements in this manual are stated as they are used in training either metric or standard Appendix B contains a measurement conversion chart for your convenience Commanders must consider the effects terrain and weather will have on their operations mainly on their troops and logistics efforts Weather and terrain combine to challenge efforts in moving supplies to forward areas Spring storms which may deposit a foot of snow on dry roads combined with unprepared vehicles create hazardous situations Helicopters are a valuable asset for use in moving men and supplies but commanders should not plan to use them as the only means of movement and resupply Alternate methods must be planned due to the variability of weather Units scheduled for deployment in mountainous terrain should become selfsufficient and train under various conditions Commanders must be familiar with the restraints that the terrain can place on a unit Operations in the mountains require soldiers to be physically fit and leaders to be experienced in operations in this terrain Problems arise in moving men and transporting loads up and down steep and varied terrain in order to accomplish the mission Chances for success in this environment are greater when a leader has experience operating under the same conditions as his men Acclimatization conditioning and training are important factors in successful military mountaineering *Manual of Military Mountaineering*, 199? U.S. Army Guide to Military Mountaineering U.S. Department of the Army, 2014-06-10 Mountains exist in almost every country in the world and almost every war has included some type of mountain operations This pattern will not change and soldiers will continue to fight in mountainous terrain in future conflicts Although mountain operations have not changed several advancements in equipment and transportation have increased the soldiers capabilities The helicopter now allows access to terrain that was once unreachable or could be reached only by slow methodical climbing Inclement weather however may place various restrictions on the capabilities of air assets available to a commander The unit must then possess the necessary mountaineering skills to overcome adverse terrain to reach an objective The U S Army Guide to Military Mountaineering details techniques soldiers and leaders must know to cope with mountainous terrain These techniques are the foundation upon which the mountaineer must build They must be applied to the various situations encountered to include river crossings glaciers snow covered mountains ice climbing rock climbing and urban vertical environments The degree to which this training is applied must be varied to conform to known enemy doctrine tactics and actions This guide also discusses basic and advanced techniques to include acclimatization illness and injury equipment anchors evacuation movement on glaciers and training *Military Mountaineering - TC 90-6-1 US Army Training Circular (1976 Civilian Reference Edition)* U.S. Department of the Army, 2021-04-22 A Comprehensive Historic Handbook on Military Mountaineering and Alpine Navigation Build your library with this unabridged high quality Civilian Reference Edition facsimile reissue of the official Military Mountaineering TC 90 6 1 US Army Training Circular 1976 release This historic unclassified civilian reference edition manual features the principles and procedures of Army mountain travel climbing

rescue and safety particularly on ice fields glaciers and snow covered mountains Contents include discussions on historic military mountaineering principles including terrain climate weather acclimatization conditioning general principles for movement basic mountaineering techniques equipment knots movement as a unit finding alpine paths setting up climbing paths and historic programs for military training in mountaineering Learn how things were historically done in the military for personal enrichment and historical study by learning from the classic knowledge of the American soldier Great for learning the history behind the ins and outs of principles military style climbing glacier travel and mountaineering developed by the U S military Not just for military personnel this book is a great gift for outdoors enthusiasts backpackers campers hikers hunters scouts military history enthusiasts and veterans A part of the Military Outdoors Skills Series This Doublebit Historic Edition reprint of Military Mountaineering TC 90 60 1 1976 is professionally restored and presented from the original facsimile source with the highest degree of fidelity possible Available in both paperback and hardcover readers can enjoy this historic Civilian Reference Edition reissue for generations to come and learn from its timeless knowledge

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against us With specialized mountain warfare training and equipment we can use that same terrain to our advantage and seize the initiative away from the enemy 4 Untrained and unprepared the mountain environment can be your worst enemy Properly trained and equipped it can be your strongest ally We will give you the training The rest is up to you Training Mountain Warriors

**Military Mountaineering and Soldier's Handbook for Individual Operations Survival in Cold Weather Areas** dept. of defense,2009 **21st Century U.S. Military Manuals** U. S. Military,U. S. Army,Department of Defense,2017-04-14 Written by the Army Mountain Warfare School AMWS this workbook provides crucial information about mountain warfare training The untrained mountain Soldier has two foes the enemy and the mountain But he can make a friend and ally of the mountain by learning to know it The mountain can give him cover and concealment points of vantage and control even at times food water and shelter The instructions in this manual even cover the site selection and building of a snow cave

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**Training Circular TC 3-97. 61 (FM 3-97. 61) Military Mountaineering July 2012** United States Army,2012-09-02 Mountains exist in almost every country in the world and almost every war has included some type of mountain operations This pattern will not change therefore Soldiers will fight in mountainous terrain in future conflicts Although mountain operations have not changed several advancements in equipment and transportation have increased the Soldiers capabilities The helicopter now allows access to terrain that was once unreachable or that was only reachable by slow methodical climbing Inclement weather however may place various restrictions on the capabilities of air assets available to a commander The unit must then possess the necessary mountaineering skills to overcome adverse terrain to reach an objective This training circular details techniques Soldiers and leaders must know to cope with mountainous terrain These techniques are the foundation upon which the mountaineer must build They must be applied to the various situations encountered to include river crossings glaciers snow covered mountains ice climbing rock climbing and urban vertical environments The degree to which this training is applied must be varied to conform to known enemy doctrine tactics and actions This TC also discusses basic and advanced techniques to include acclimatization illness and injury equipment anchors evacuation movement on glaciers and training This training circular is a training aid for use by qualified

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Sapper Handbook ,2007-11-06 Partial TABLE OF CONTENTS ONE TACTICS 1 1 Principles of Patrolling 1 2 Troop Leading Procedures 1 3 Assumption of Command 1 4 Duties of the 1 5 Duties of the 1 6 Duties of the Squad Leaders 1 7 Duties of the Individual 1 8 Reports and Charts 1 9 Coordination Checklists 1 10 Orders 1 11 Patrol Organization and Movement 1 12 Security During Movement 1 13 Immediate Action Drills 1 14 Departure Reentry of Friendly Forward Units 1 15 Patrol Bases 1 16 Reconnaissance Operations 1 17 Combat Operations 1 18 Link up Operations TWO DEMOLITIONS 2 1 Characteristics of Explosives 2 2 Dual Detonation Systems 2 3 Timber Cutting 2 4 Steel Cutting 2 5 Breaching Charges 2 6 M122 Demolition Firing Device 2 7 Demo Knots 2 9 Field Expedient Demolitions and Booby Traps THREE WEAPONS 3 1 Company Level Weapons 3 2 Range Card 3 3 Fire Support 3 4 Close Air Support 3 5 Call For Fire Request Fire 3 6 Threat 3 7 Foreign Weapons 3 8 Threat Mines FOUR URBAN BREACHING 4 1 C Shaped Charge 4 2 Det Cord Linear 4 3 Donut Charge 4 4 Oval Charge Working 4 5 Rigid Linear Working 4 6 Rubber Strip Charge 4 7 Water Impulse 4 8 Breacher Logbook FIVE COMMUNICATIONS 5 1 Antennas 5 2 Tactical Communications Equipment 5 3 Morse Code 5 4 Battery Life Chart 5 5 SINCGARS Tasks SIX MINE COUNTERMINE 6 1 Mine Characteristics 6 2 Firing Devices 6 3 Minefield Types 6 4 Minefield Employment Authority 6 5 Reporting Recording and Marking Minefields 6 6 Breaching Methods SEVEN MEDICAL 7 1 Vital Body Functions 7 2 Shock 7 3 Head Injury 7 4 Sucking Chest Wound 7 5 Stomach Wounds 7 6 Control Hemorrhage 7 7 Orthopedic Injuries 7 8 Burns 7 9 Environmental Injuries 7 10 Bites and Stings 7 11 Improvised Litters 7 12 Aeromedevac 7 13 Intravenous Techniques 7 14 Casualty Evacuation EIGHT BREACHING 8 1 Breaching Fundamentals 8 2 Breaching Organization 8 3 Types of Breaching Operations 8 4 Intelligence 8 5 Responsibilities Checklists for Leaders Elements 8 6 Lane Reporting NINE AIR OPERATIONS 9 1 LZ PZ Operations 9 2 DZ Operations 9 3 Slingload Operations 9 4 Helicopter Rappelling 9 5 Helicopter Jumping 9 6 Aircraft Information 9 7 Poncho Expedient Parachute TEN MOUNTAIN OPERATIONS 10 1 Introduction to Knot Tying 10 2 Equipment 10 3 Balance Climbing 10 4 Belays 10 5 Party Climbing 10 6 Rappels 10 7 Secure a Casualty in a Sked Stretcher 10 8 Rope Installations 10 9 Rope Bridges ELEVEN WATER OPERATIONS 11 1 Casting 11 2 Recovery 11 3 Surface Swimming 11 4 Small Boats 11 5 Field Expedient Flotations Devices 11 6 Waterproofing Equipment and Munitions 11 7 Small Boat Operations TWELVE SERE 12 1 Survival 12 2 Evasion 12 3 Resistance 12 4 Escape 12 5 Code of Conduct 12 6 Codes THIRTEEN MISCELLANEOUS 13 1 Navigation 13 2 NBC 13 3 Hand to Hand Combat 13 4 Recon Surveillance Target Acquisition Devices 13 5 Conversion Factors 13 6 Weight of Common Items 13 7 Tricks of the Trade FOURTEEN BATTLE DRILLS 14 1 Conduct a Point Area Recon 14 2 Conduct a Zone Recon 14 3 Conduct a Route Recon for Obstacles 14 4 Conduct a Route Clearing Operation 14 5 Bridge Recon 14 6 Employ a Hasty Protective Minefield 14 7 Breach Enemy Minefield 14 8 Breach Enemy Minefield with Explosives 14 9 Breach Enemy Minefield with Bangalore Torpedo 14 10 Breach Wire Obstacle with Wire Cutters 14 11 Breach Wire Obstacle with Bangalore Torpedo 14 12 Install a Triple Standard Concertina Fence 14 13 Prepare a Target for Demolition Using an Obstacle Folder 14 14 Secure and

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*German Army Manuals of World War Ii* Charles Lemons,2011

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