FORMAL SCHOOLS LEARNING PROGRAMS

AY25 COURSE CATALOG (AS OF 31 OCT 2024)



2025

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COURSE CATALOG

The Programs of Study schedules in the Course Catalog are subject to environmental conditions; however, they are the intended training progression.

A. SUMMER & WINTER MOUNTAIN LEADERS COURSES, SUMMER & WINTER MOUNTAIN ENGINEER COURSES, BASIC COLD WEATHER ADVISOR COURSE, MOUNTAIN COMMUNICATIONS COURSE, and MOUNTAIN SCOUT SNIPER COURSE are TECOM funded for travel; submit names via S-3 chain of command to respective MARFOR G-3 for MCTIMS enrollment. MTX unit personnel should be annotated during coordination with MARFOR seat sponsors as they have priority.

B. ANIMAL PACKING, MOUNTAIN MEDICINE, COLD WEATHER MEDICINE, and HORMANSHIP & ANIMAL PACKING (SOF or Reconnaissance Community) COURSES are unit funded for travel: **CONTACT MARFOR Seat Sponsor for seat requests to MCMWTC**.

- Scout Skier Course and Assault Climbers Course are scheduled in support of MTX training audiences only to build enablers during the exercise (see MCMWTC SharePoint, Formal Schools for information <u>https://usmc.sharepoint-</u> mil.us/sites/TECOM MCMWTC/SitePages/Formal-Schools.aspx).
- Academic Chief (760) 932-1818, Academic Director (760) 932-1418, Academics & Training Analyst (760) 932-1419
- For "Blue side" Navy personnel attending MWTC courses, learners must contact the CeTARS Manager: **Michelle L. Goodman** @ <u>michelle.l.goodman3.civ@health.mil</u> for registration consideration and confirmation.

C. TRAVEL: Learners authorized to travel by commercial air will arrive and depart using Reno-Tahoe international airport, no other airport facility is authorized. The Marine Corps Mountain Warfare Training Center (MCMWTC) will provide transportation from Reno-Tahoe international airport on the day prior to the convening date only, annotated as "Report Date" on the schedule on page 6. Learners must arrive at the airport NLT 1700; transportation for arriving learners will depart the airport no later than 1930 hours. Units must contact the course staff with flight info via email. Non-standard flight times, delayed, or canceled flights must be coordinated ASAP through the MCMWTC command duty officer (CDO) at 760.932.1401 or DSN 839-1401. Also, Officers and Staff Non-Commissioned Officers assigned to west coast units are recommended to drive personally owned vehicles (POV's). Learners departing the course by commercial air should not schedule return flights prior to 1500 on the last day of the course ("Graduation Date" on page 6) and no later than 24 hours after course graduation. MCMWTC will provide transportation to Reno-Tahoe international airport. Officers and Staff Non-Commissioned Officers traveling by POV will not depart MCMWTC until after the graduation ceremony on the last day of the course.

NOTE: The MCMWTC is located in a remote area approximately two hours south of Reno, NV. There is no shuttle or bus service from MCMWTC. Learners who do not arrive at the airport by the pick-up time will be required to use commercial taxis (estimated cost of + \$250) or coordinate a rental vehicle through their parent command. Officers and Staff Non-Commissioned Officers are encouraged to bring POV's for travel and liberty purposes. Authorization for Sergeants to bring POV's requires parent command approval.

Course seat funding can be procured via your official chain of command to the formal schools training branch, training and education command for TECOM funded courses (Section A). Courses that are *unit funded* (Section B above) - parent unit pays for travel; MWTC provides transportation to/from Reno airport, government messing available, and billeting provided for all courses.

D. REPORTING: <u>COMMAND SCREENING CHECKLIST (last 2 pages of this catalog) WILL</u> <u>BE COLLECTED ON TD-1 BY COURSE STAFF</u>. All learners arriving to the MCMWTC via POV must report to the CDO at Bldg. 4048 NLT 2359 on the report date. In the event of a problem, learners should contact the CDO or Course Staff.

E. MESSING AND BILLETING: Government messing and billeting are available. All learners should arrive on TAD orders and dependents are not authorized. All reservists must be joined to active duty by their units prior to reporting to MCMWTC. No dispersing facilities are available at MWTC, but learners will have access to an ATM or cashback at the MCX.

•	Chow Hall:	MON-FRI	0600-0730	Breakfast (\$4.35)
			1130-1300	Lunch (\$7.00)
			1630-1745	Dinner (\$6.05)
		<u>SAT/SUN</u>	0900-1015 1545-1700	Breakfast (\$7.80) Dinner (\$9.50)



F. POINTS OF CONTACT

MCMWTC CDO:	760.932.1401
Mountain Leaders:	760.932.1468
Mountain Scout Sniper:	760.932.1458
Summer/Winter Mountain Engineer:	760.932.1490
Mountain Med/Cold Weather Medicine:	760.932.1527
Mountain Communication:	760.932.1437
Basic Cold Weather Advisor:	760.932.1469
Animal Packing/Horsemanship:	760.932.1469

G. OTHER

- Mailboxes on base: Front of PX, CP, & Chow Hall
- Barber Shop: Depends on Barber availability (limited)
- PX: Days and hours vary, briefed upon course check in
 - o MON-FRI 0700-1700
 - o SAT/SUN 1000-1500
- ATM location: Cashback available at MCX during business hours, ATM located outside base MCX.

FY25 SCHEDULE (as of 31 OCT 2024)

SUMME	M24M7A1		
CLASS	REPORT	CONVENE	GRADUATE
1-25	6 Jul	7 Jul	22 Aug
2-25	7 Sep	8 Sep	24 Oct

	M24M7B1		
CLASS	REPORT	CONVENE	GRADUATE
1-25	6 Jan	7 Jan	21 Feb
2-25	3 Mar	4 Mar	18 Apr

MOUNTAIN MEDICINE		MOUNTAIN MEDICINE M24KAR1 COLD WEATHER MEDICINE			CINE	M24WAC1	
CLASS	REPORT	CONVENE	GRADUATE	CLASS	REPORT	CONVENE	GRADUATE
1-25	15 Jun	16 Jun	9 Jul	1-25	12 Jan	13 Jan	5 Feb
2-25	20 Jul	21 Jul	13 Aug	2-25	18 Feb	19 Feb	14 Mar
3-25	24 Aug	25 Aug	17 Sep				

M24MES1

14 Mar

MOUNT	M24CXJ1		
CLASS	REPORT	CONVENE	GRADUATE
1-25	8 Jan	9 Jan	24 Jan
2-25	18 Feb	19 Feb	5 Mar
3-25	7 Apr	8 Apr	22 Apr
4-25	7 Jul	8 Jul	22 Jul
5-25	3 Sep	4 Sep	18 Sep

MOUNTA	M24UNC1					
CLASS	REPORT	CONVENE	GRADUATE			
1-25	8 Jul	9 Jul	31 Jul			
2-25	2 Sep	3 Sep	25 Sep			

*Note: 0321 & IMS have priority

	PACKING		M24MN61
CLASS	REPORT	CONVENE	GRADUATE
1-25	3 Aug	4 Aug	19 Aug
2-25	2 Sep	3 Sep	18 Sep

HORSEMANSHIP & ANIMAL

PACKING			M24MMM1
CLASS	REPORT	CONVENE	GRADUATE
1-25	3 Aug	4 Aug	19 Sep
2-25	2 Sep	3 Sep	18 Sep

SUMMER MOUNTAIN ENGINEER

2 Mar

3-25

CLASS	REPORT	CONVENE	GRADUATE
1-25	9 Jul	10 Jul	30 Jul
2-25	9 Sep	10 Sep	30 Sep

BASIC COLD WEATHER ADVISORM2403W1CLASSREPORTCONVENEGRADUATE1-255 Jan67 Jan17 Jan2-2513 Feb14 Feb25 Feb

3 Mar

WINTER MOUNTAIN ENGINEER

	M24MEW1		
CLASS	REPORT	CONVENE	GRADUATE
1-25	7 Jan	8 Jan	31 Jan



Summer Mountain Leaders Course Program of Study M24M7A1

1. SMLC Learning Program Overview: The Mountain Leaders Curricula aboard the Marine Corps Mountain Warfare Training Center are 35 training

days that will challenge learners in planning, operating, and sustaining units in complex, compartmentalized terrain as well as tactical employment of units in this challenging environment. Learners are taught tactics, techniques, and procedures (TTPs) across warfighting functions to serve as leaders and train others in these considerations with their parent unit.

2. Course Description: This course is designed to provide company grade officers, SNCOs and Sergeants academic instruction and field application in the use of specialized mountaineering and cold weather equipment, mountain warfare TTPs, including planning considerations across warfighting functions for offensive and defensive operations in complex, compartmentalized mountainous terrain.

Historical case studies are used in highlighting numerous lessons learned. Learners conduct operations in the local training area and further afield to familiarize them with operating in cold temperatures, high altitude, and mountainous terrain.

3. Program Outcomes: To develop subject matter experts on the care and use of mountain and cold weather equipment, environmental and mobility skills (horizontal and vertical obstacle negotiation), and small unit tactics in order to enable them to facilitate company-sized units to conduct offensive and defensive operations in this environment. The desired end state is a course graduate who will increase a unit's endurance, survivability, mobility, sustainability, and assist unit leaders in planning and advising in this environment.

SMLC Phases: Beginning with the orientation of Pre-Environmental Training (PET), through progressive conditioning, equipment familiarization, mobility training, TTP development, planning, environmental considerations, tactical scenarios, TDGs & DFCs, and force on force training; the Summer Mountain Leaders Course will develop attributes as follows: Mountain leaders will demonstrate the abilities to plan, advise, and execute operations in complex, compartmentalized terrain with specific equipment, maintain awareness of planning considerations to conduct and sustain operations in this environment.

Phase I: Mountain Introduction: This phase begins with PET, an immersive experience in understanding the nuances of mountain and cold weather operations. Learners will be shown specifics pertaining to mountain health awareness, mountain weather, cold weather clothing and equipment, warfighting loads, movement in mountainous terrain, and how to mitigate leadership challenges in this environment, as well as TTPs while operating.

Phase II: Technical Skills/Climbing: Learners will be taught the basic principles of knots, systems, anchors, protection, and rappelling. Additionally, learners will be shown how to achieve and provide increased mobility to supported units through specialized mountaineering training. This phase is heavily emphasized, as mobility is a critical requirement in this environment. During this phase learners will receive instruction and practice climbing, establishing steep earth lanes, fixed rope lane installation, aid climbing, rescues, cliff reconnaissance, and route selection and planning.

Phase III: Final Exercise (FEX): As the culminating event of the training program, learners will be issued a tactical scenario complete with operations order and multiple fragmentary orders as the scenario progresses. Over the course of ~96 hours of continuous operations, they will apply all the

skills they have been shown since the beginning of the course in order to assess their abilities to serve as leaders and advisors to commanders in this environment.

Phase IV: Alpine & Mountain Movement: In this phase learners will understand how to plan and employ systems, conduct movement above the tree line, and movement over glaciated terrain and types of rescues in this environment.

Phase V: Graduation: Learners having completed all requirements at this point will attend a graduation ceremony and out-processing in order to return to their units.

4. Participation and Assessments: Due to the depth of knowledge and skills throughout this course, and likelihood of minimal previous experience in this environment, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics; these range across the environment, equipment, TTPs, planning, advising, practical application, problem solving, critical thinking, written tests, and mobility.

Scope of Evaluation: Objectives and outcomes are measured by (a) performance examination requiring individuals to perform tasks under conditions similar to those in a combat environment, (b) written examination requiring the individual to retain critical knowledge, (c) peer evaluation where learners evaluate each other's ability to overcome environmental stresses and leadership challenges, and (d) leadership evaluation where facilitators evaluate leadership performance. All four components are weighted and used to calculate the learners overall rank in the course.

Performance Examination: Performance examinations are used to assess proficiency or end result where the learning objective has only one outcome. Process examinations are used to assess procedural learning objectives and outcomes. Performance checklists will be used for process examinations of a technical nature. Learners are provided performance checklists prior to the exam and practical application with coaching. An academic review board may be conducted for any learner who fails two or more performance events and may result in the learner being academically dropped from the course.

Written Examinations: These are used to assess retention and application of knowledge. Eighty percent of the test items assigned to the objectives or stated outcomes must be answered correctly in order to achieve knowledge proficiency of an objective. In the event that an individual does not show proficiency with a written examination, they are retested against a different version of the original examination. Individuals are provided adequate time for study prior to the administration of a written examination. An academic review board may be conducted for any learner who fails two or more written tests and may result in the learner being academically dropped from the course.

Leadership Evaluations: Leadership Evaluations are conducted during the course. Bottom ranked learners are subject to an academic review board per discretion of the faculty advisors. Peers rank members in their squad or platoon based on provided evaluation criteria. Facilitators provide feedback based on provided evaluation criteria. An individual may be dropped for failure to correct leadership issues after receipt of formal written counseling from the course chief.

Demonstration of Course Proficiency: Learners meet or attain course completion criteria when all testable items are satisfied to include the written examinations, all product and process-based performance examinations, and accurate delivery of their assigned teach-backs to demonstrate knowledge retention. All failures to demonstrate proficiency will be allotted additional time to remediate. Learners will be briefed prior to the conduct of any initial or remedial examination. Failure to demonstrate successful remediation of any examination may constitute an academic drop from the course.

5. AARs: Each learner will be assigned to a squad with a faculty advisor. Individual counseling is given by the faculty advisor to each learner on their proficiency during a particular phase. A dedicated period will be given at the culmination of the course to assess the class's overall proficiency of all knowledge, skills, and attitudes evaluated throughout the FEX. The end of course survey provided by a representative from the academics' section will allow for learners to give their unbiased feedback regarding the conduct of the course.

6. Schedule:

Red indicates High Risk Training

Phase I:	Mountain Introduction	
D-1		
AM	WELCOME ABOARD, S-1, LEARNER COUNSELING, FILL OUT IIF SHEETS.	ADMIN 04
AM	ENVIRONMENTAL BRIEF.	ADMIN 06
AM	MOUNTAIN LEADERSHIP CHALLENGES. Learners will have a clear understanding of good and poor leadership attributes in a mountainous/cold weather environment.	MW-00
AM	MOUNTAIN WEATHER. Learners will be able to identify and recognize weather patterns that occur in a mountainous environment.	MW-00
AM	CONDUCT A MOUNTAIN LEADER MEETING. IAW MCTP 12-10A Mountain Warfare Operations, learners will understand the role of the ML and begin to understand advisory & mobility considerations in this environment.	MW-10
РМ	PERSONAL COLD WEATHER CLOTHING & EQUIPMENT. Learners can employ personal cold weather clothing & equipment to prevent environmental injuries, understanding the design principles of various cold weather clothing layers through application of the acronym VIP/COLD.	MW-01
РМ	MARINE ASSAULT CLIMBERS KIT (MACK). Learners are shown what items comprise the MACK and are exposed to inspection criteria essentials for application throughout the course.	MW-01
PM	ROPE MANAGEMENT. Learners are instructed on the conduct of the knots performance examination and introduced to the testable knots and their function/use, the basics of rope terminology, characteristics, and maintenance.	MW-07
PM	ROPE CORRAL. Familiarization and practice with knots.	MW-01
D-2		
АМ	MOUNTAIN ENDURANCE TEST. Learners will complete a mountain endurance test: A ruck run of Mountain Leader Loop (~3.8 miles) in utilities w/ a 55 lb. dry pack, rock wall pull-ups, and a rope climb. The goal is 70 minutes or less for the movement, minimum of 11 pull-ups, and one rope climb. The score is a part of the learner's overall G.P.A.	MW-03
AM	IIF GEAR ISSUE/ ROPE ROOM ISSUE.	ADMIN 05

PM	MOUNTAIN SAFETY. Learners are able to identify and apply the considerations of safety while operating in a mountainous/cold weather environment.	MW-001
PM	MOUNTAIN WARFIGHTING LOAD REQUIREMENTS. Learners are able to identify and apply specifics to packing a warfighting load in a mountainous and cold weather environment.	MW-011
PM	WATER PROCUREMENT. Learners are able to identify suitable methods to procure water, waterborne hazards, and methods for purification.	MW-130
PM	REQUIREMENTS FOR SURVIVAL. Learners are taught about considerations and required items in this environment.	MW-125
PM	ROPE CORRAL. Familiarization and practice with knots.	MW-012
TD-3		
AM	MOVEMENT IN MOUNTAINOUS TERRAIN. Mountain movement through training areas and discussion on movement TTPs.	ADMIN- 01/MW- 032
AM-PM	FIXED LANE DEMO. Learners use fixed lanes to ascend fourth class terrain.	MW-051
PM	ROPE CORRAL. Knots and rope management practical application.	MW-012
TD-4		
AM	CASEVAC PLATFORM INTRO / DEMO. Introduction to SKEDCO litter and practical application in this environment.	MW-030
AM	CASEVAC PLATFORM PRAC APP. Practical application with SKEDCO litter.	MW-030
AM	MOUNTAIN CASUALTY EVACUATION. Learners will be given a class on casualty evacuation specific to a snow-covered, mountainous environment.	MW-030
AM-PM	HIKE TO LTA. Trail ~6KM distance.	ADMIN- 01/MW- 032
PM	LEAVITT TRAINING AREA (LTA) BRIEF.	ADMIN- 06
PM	CLIMBING HARNESS. Proper wear/adjustment of climbing equipment, nomenclature, and inspection of a climbing harness.	MW-013
PM	RACK SET UP. Options for individual setup.	MW-013
PM	ROPE CORRAL (Coils). Practical application of mountain rope coils.	MW-012
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063
Phase II:	Technical Skills/Climbing	
TD-5		
AM	PLACING PROTECTION. Class, demonstration, and placing protection practical application.	MW-043
PM	NEGOTIATE A RIVER OBSTACLE. Learners are shown how to assess and cross a river obstacle using various methods.	MW-033

PM	TRANSPORT TO LOWER BASE CAMP.	ADMIN- 01
PM	ANCHORS. Class and practical application on natural and artificial anchors.	MW-034
TD-6		10100-004
10-0		
AM	MOUNTAIN HEALTH AWARENESS. Learners will understand ways the human body generates and loses heat, cold weather injuries, and high-altitude considerations and injuries.	MW-002
AM	WRITTEN TEST #1 REVIEW:	EXAM- WRITTE N EXAM
AM	HIKE TO LTA.	ADMIN- 01/MW- 032
AM	KNOTS TEST.	EXAM- TRST EXAM
AM	RAPPELS, SLICK AND PACK CLASS (GROUND SCHOOL). Introduction to rappelling and safety considerations.	MW-040
AM	RAPPELS: SLICK & PACK.	EXAM- TRST EXAM
AM-PM	TRANSPORT TO LOWER BASE CAMP.	ADMIN- 01
TD-7		<u>.</u>
АМ	KNOTS RETEST.	EXAM- TRST EXAM
AM	TRANSPORT TO LTA.	ADMIN- 01
AM-PM	TWO ROPE RETRIEVABLE RAPPEL INTRO/PRAC APP. Learners are introduced to application of a two-rope retrievable rappel and conduct.	MW-040
PM	BALANCE CLIMBING INTRO / PRAC APP. Learners are introduced to climbing fundamentals.	MW-041
РМ	RUN TO LOWER BASE CAMP.	ADMIN- 01/MW- 032
PM	TIE A PURCELL. Facilitators demonstrate how to tie and the many uses for the versatile knot.	MW-012
PM	SYSTEMS PRAC APP. Facilitators spot check and assist learners.	
TD-8		
АМ	KNOTS RETEST, PERFORMANCE REVIEW BOARD.	EXAM- TRST EXAM

AM	TRANSPORT TO LTA.	ADMIN- 01			
AM	CONDITIONING RUN.				
AM	MECHANICAL ADVANTAGE W/ ONE ROPE BRIDGE INTRO. Learners are introduced to the concept of mechanical advantage and application through the demonstration of a one rope bridge.				
AM-PM	ONE ROPE BRIDGE PRAC APP.	MW-036			
PM	ONE ROPE BRIDGE EXECUTION.	EXAM- TRST EXAM			
PM	PLACING PROTECTION, SYSTEMS PRAC APP. placing protection practical application and systems practical application.	MW-043			
AM	TRANSPORT TO LOWER BASE CAMP.	ADMIN- 01			
TD-9					
AM	M RUN TO LTA.				
AM-PM	VERTICAL HAULING SYSTEM INTRO/ PRAC APP. Learners are introduced to construction and application of vertical hauling systems.				
PM	VERTICAL HAULING SYSTEM EXECUTION.	MW-038			
PM	BELAY FOR PARTY CLIMBING. Belay procedures and climbing commands.				
PM	BELAY FOR PARTY CLIMBING TEST-OUT. Learners are tested on belay procedures and climbing commands.	MW-044			
PM	TOP ROPING: Practical application.	MW-042			
PM	PRACTICAL APPLICATION OF SYSTEMS/SOP Refinement. Application of systems in a tactical environment.	MW- 036/MW - 030/MW -			
		040/MW -038			
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063			
TD-10					
AM	PLACING PROTECTION. placing protection practical application.	MW-043			
AM	COILS TEST.	MW-012			
AM	SYSTEMS TESTING SITE ROUND ROBIN. Learners are shown the testing sites for each system and introduced to the PECL.				
AM	HIKE TO BIG FACE.				
AM	ROUTE SELECTION AND PLANNING. Discussion and iterations on route planning & map work.	032 MW-104			

PM	HIKE TO LOWER BASE CAMP.	ADMIN- 01
		EXAM-
PM	WRITTEN TEST #1.	WRITTE
		N EXAM
PM	THEORETICAL MECHANICAL ADVANTAGE. Learners are introduced to the concept	MW-035
	of theoretical mechanical advantage.	
TD-11		
		EXAM-
AM	WRITTEN TEST #1 RE-TEST.	WRITTE
		N EXAM
A N A		ADMIN-
AM	RUN TO LTA.	01/MW- 032
		EXAM-
AM-PM	SYSTEMS TEST.	TRST
/		EXAM
514	SUSPENSION & TRAVERSE. Considerations, principles, and employment for moving	
PM	equipment, casualties, etc.	MW-039
PM	INSTRUCTOR RAPPEL DEMO AND SOP REFINEMENT CLASS. Night rappels.	TRST
PM	NIGHT RAPPELS.	MW-040
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site	MW-063
	in a mountainous/snow covered environment.	10100-003
TD-12		
AM	PLACING PROTECTION. placing protection practical application.	MW-043
AM	COILS RETEST.	MW-012
AM	LEAD AND SPORT CLIMBING (INTRO), FALSE LEADS DEMO. Learners are	
AIVI	introduced to process and methods of climbing.	MW-048
PM	DETERMINING THE DIFFICULTY OF A CLIMB.	MW-104
PM	FALSE LEADS.	MW-048
PM	RUN TO LOWER BASE CAMP.	ADMIN-
1 101		01
514		MW-
PM	PRAC APP WITH SKEDCO LITTER AND SOP REFINEMENT.	036/AD
TD-13		MIN-06
AM	RUN TO LTA.	ADMIN- 01
AM	PLACING PROTECTION. placing protection practical application.	MW-043
	BELAY FOR PARTY CLIMBING, TOP SIDE ANCHOR CLASS. Learners are	
AM	introduced to belay procedures and climbing commands for party climbing as well as top side belay anchors.	MW-044
AM	TEST FALLS.	MW-048
AM/PM	LEAD CLIMBING. Practical application.	MW-048
PM	SYSTEMS RETEST.	MW-012
		ADMIN-
PM	TRANSPORT TO LOWER BASE CAMP.	01

		EXAM-
AM	SYSTEMS PROFICENCY REVIEW BOARD.	TRST
AM	EFFECTS OF COLD WEATHER ON WEAPONS AND OPTICS. Learners will understand how CW can affect their unit's organic weapons and how to combat its effects in order to make an operational weapon.	MW-101
AM	AIR CONSIDERATIONS. Class & discussion with MCMWTC AirO.	ADMIN- 06
AM	FIRE SUPPORT PLANNING CONSIDERATIONS. Classroom, facilitator led class & discussion.	MW-114
AM	WARFIGHTING FUNCTIONS CONSIDERATIONS. A facilitator led discussion on how a Mountain Leader can provide planning considerations across the warfighting functions during mountain operations.	AM
PM	TRANSPORT TO LTA.	ADMIN 01/MW- 032
РМ	NIGHT ONE ROPE BRIDGE SOP REFINEMENT/ASSIGN LEADERSHIP DUTIES/POSITIONS.	MW- 036/AD MIN-06
AM	GORGE CROSSING. Facilitator led practical application for obstacle negotiation.	MW-03
PM	NIGHT ONE ROPE BRIDGE PRAC APP.	MW-03
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-06
TD-15		
AM	PLACING PROTECTION. placing protection practical application.	MW-04
AM	BOTTOM SIDE ANCHORS.	MW0- 034
AM	SYSTEMS AND COILS RE-TEST	EXAM- TRST
AM-PM	LEAD CLIMBING.	MW-048
PM	HIKE TO LOWER BASE CAMP.	ADMIN 01/MW- 032
TD-16		
AM	HIKE TO LTA.	ADMIN 01/MW- 032
AM	LEAD CLIMBING.	MW-048
PM	CLIFF RECONNAISSANCE. Class and discussion for planning considerations.	MW-05
PM	LEAD CLIMBING.	MW-048
PM	NIGHT TWO-ROPE RETRIEVABLE RAPPEL. Learners develop SOP for night two- rope retrievable rappels and practical application.	MW-040
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-06

AM	PLACING PROTECTION. placing protection practical application.	MW-043				
AM	LEAD CLIMBING.	MW-048				
PM	VERTICAL HAULING SYSTEM PRAC APP AND SOP DEVELOPMENT.	MW-038				
PM	LEAD CLIMBING WITH ASSAULT LOAD.	MW-048				
PM		EXAM-				
I IVI	LEAD CLIMBING TEST BRIEF.	ROCK				
		EXAM				
PM	RUN TO LOWER BASE CAMP.	ADMIN- 01				
TD-18						
<u> </u>		ADMIN-				
AM	RUN TO LTA.	01				
AM	PLACING PROTECTION. placing protection practical application.	MW-043				
AM	LEAD CLIMBING.	MW-048				
PM	DETERMINE FALL FACTORS.					
PM	LEAD CLIMBING.	MW-048				
PM	TRANSPORT TO LOWER BASE CAMP.	ADMIN- 01				
TD-19						
PM	TRANSPORT TO LTA.	ADMIN-				
A N A		01				
AM	PLACING PROTECTION. placing protection practical application.	MW-043 EXAM-				
AM-PM	CLIMBS EVALUATION/RETEST.	ROCK				
	CLIMBS EVALUATION/RETEST.					
PM	RESCUE SYSTEMS. Learners are shown the application of rescue systems.	MW-050				
PM	MILITARY AID CLIMBING. Ways to assist climbers during challenging routes and or	MW-049				
PIN	conditions. Discussion and practical application.	10100-049				
PM	NIGHT CLIMBS: Top rope.	MW-042				
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063				
TD-20						
AM-PM	FIXED ROPES: SIMPLE, SEMI-FIXED, FIXED. Learners' practical application of setting fixed lanes.	MW-051				
		EXAM-				
TBD	CLIMBS EVALUATION PROFICENCY REVIEW BOARD.	ROCK				
		EXAM				
PM	TRANSPORT TO LOWER BASE CAMP.	ADMIN- 01				
		EXAM-				
PM	WRITTEN TEST 2 TEST REVIEW: MACK, Mobility, rope techniques basics.	WRITTE				
PM	ISSUE FRAGMENTARY ORDER – CLIFF ASSAULT.	ADMIN-				
		06				
A-1						
AM	IMPROVISED RESCUE (JSOC TASK).	MW-050				

TD-21							
PM	WRITTEN TEST #2.	EXAM- WRITTE N EXAM					
AM	RUN TO LTA.						
AM	CLIFF ASSAULT. Class and discussion for considerations and planning.	01 MW-102					
AM-PM	4 to 6 PERSON DRILL. (Mechanical Ascending) Demonstration and practical application of moving a small team and equipment over a vertical obstacle.	MW-102					
PM	CLIFF ASSAULT PRAC APP.	MW-102					
PM	BLINDFOLDED KNOTS.	MW-012					
PM	NIGHT PROTECTION PLACEMENT PRAC APP. Learners will receive demonstration and practical application of placing protection in low light conditions.	MW0- 034					
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063					
TD-22							
AM	HANGING BELAY. Enables multi-pitch climbing.	MW-047					
AM-PM	AID CLIMBING, PITONS. Discussion, demonstration, & practical application.	MW-047					
PM	BLINDFOLDED KNOTS.	MW-012					
PM	NIGHT CLIMBS: Lead.	MW-042					
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063					
TD-23							
AM-PM	MULTI-PITCH CLIMB at BIG FACE (Starboard).	MW-047					
AM-PM	LEADER PICK OFF/MECHANICAL ASCENSION at LITTE FACE (Port).	MW-050					
PM	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063					
TD-24							
AM-PM	MULTI-PITCH CLIMB at BIG FACE (Port).	MW-047					
AM-PM	INTRO TO LEADER PICK OFF/MECHANICAL ASCENSION at LITTE FACE (Starboard).	MW-050					
PM	TRANSPORT TO LOWER BASE CAMP.	ADMIN- 01					
TD-25							
AM	ISSUE ROAD TO WAR - FEX.	ADMIN- 06					
AM	TACTICAL ADVISOR DISCUSSION.	MW-120					
AM	WRITTEN TEST #2 RE-TEST.	EXAM- WRITTE N EXAM					
AM/PM	FEX PREP/PREP FOR COMBAT. Cliff reconnaissance and gear prep.	ADMIN- 06					
PM	WRITTEN TEST 3 TEST REVIEW. Glaciology & Avalanche danger; MACK Glacier module.	EXAM- WRITTE N-EXAM					

TD-26		
AM	TRANSPORT TO BROWNIE CREEK.	ADMON
AM-PM	PATROLLING/ROUTE SELECTION AND PLANNING.	-01 MW-104
TD-27	PATROLLING/ROUTE SELECTION AND PLANNING.	10100-104
AM-PM	PATROLLING/ROUTE SELECTION AND PLANNING.	MW-104
Phase III:		10110-10-1
TD-28		
AM	TREE CLIMBING: Class and practical application.	MW-055
		EXAM-
PM	CLIFF ASSAULT REHEARSAL.	FEX
PM	LEARNER ORDER.	EXAM-
	LEARNER ORDER.	FEX
PM	FEX: Technical skill sets evaluated during tactical scenarios.	EXAM-
		FEX
TD-29		
	FEX.	EXAM-
TD-30		FEX
	FEX.	EXAM-
TD 24		FEX
TD-31		
	FEX.	EXAM- FEX
TD-32		TEX
	FEX.	EXAM- FEX
TD-33		FEA
AM	TRANSPORT TO LOWER BASE CAMP.	ADMIN-
		01 EXAM-
PM	PEER EVALS.	LDRSH
Phase IV:	Alpine & Mountain Movement	P
TD-34		
	MACK GLACIER MODULE, SQUAD STOVES, TENTS: Learners will be shown items	
AM	used for glacier travel, as well as environmental considerations and how to combat them.	MW-014
AM	GLACIOLOGY: Identify glacier characteristics and naming.	MW-057

АМ	AVALANCHE AWARENESS. Learners are able to identify/apply objectives/outcomes	MW-100
	of avalanche danger assessment.	
PM	CRAMPON FITTING AND TECHNIQUES.	MW-059
РМ	ICE AXE TECHNIQUES/STEP KICKING AND CUTTING.	MW- 058/
E IVI	ICE ARE TECHNIQUES/STEP RICKING AND COTTING.	MW-072
		MW-
PM	SNOW AND ICE ANCHORS/GLISSADING AND SELF ARREST.	060/MW
		-061
PM	GLACIER TRAVEL. Techniques and procedures for movement across glaciers.	MW-062
A-2		
		EXAM-
AM	WRITTEN TEST 3: Glaciology & Avalanche danger; MACK Glacier module	WRITTE
		N-EXAM
AM	FEX DEBRIEF.	EXAM- FEX
		ADMIN-
AM	GEAR MAINTENANCE AND INSPECTION.	05
T-35		
		ADMIN-
AM	IIF TURN-IN.	05
AM	ROPE ROOM TURN-IN.	ADMIN-
,		05
AM	WRITTEN TEST 3 RE-TEST.	EXAM- WRITTE
AW	WRITTEN TEST 3 RE-TEST.	N-EXAM
		ADMIN-
AM	END OF COURSE SURVEYS.	08
PM	SOCOM GEAR CLASS/GEAR INSPECTION AND MAINTENANCE CLASS.	MW-014
PM	END OF COURSE SURVEYS DISCUSSION.	ADMIN-
		08 ADMIN-
PM	GEAR MAINTENANCE/FIELD DAY.	07/10
Phase V	Graduation	
A-3		
		ADMIN-
AM	SQUAD BAY INSPECTION.	10
		ADMIN-
AM	TURN SQUAD BAY OVER TO S4.	10
AM	S-1 OUTPROCESSING.	ADMIN-
••		
AM	GRADUATION PRACTICE.	ADMIN- 09
		ADMIN-
AM	GRADUATION.	09
AM	MOVEMENT TO RENO.	ADMIN-
/ \\VI		01

7. Mandatory Readings:

MCTP 12-10A Mountain Warfare Operations; available at <u>USMC Doctrine - Home (sharepoint-mil.us)</u> Keywords for search: Mountain Warfare

Chapters 1 & 4 (15 pages)

8. Recommended Readings:

Mountaineering: The Freedom of the Hills

MCRP 12-10A.3 Mountain Leader's Guide to Mountain Warfare Operations, Chapters 4 through 6.; available at <u>USMC Doctrine - Home (sharepoint-mil.us)</u>

Keywords for search: Mountain Warfare

Watch: https://www.marinenet.usmc.mil/mvs/Channel/Home.aspx?ld=11 Knot videos

Boonie Cover - MARPAT Woodland 1 Skitvie Shirt 3 Underwear 6 Socks, Brown, Pair 6 Socks, Brown, Pair 6 Socks, White PT, Pair 4 USMC Boots 2 PolyPro Top/Bottom, Set 2 Grid Fleece Top/Bottom, Set 1 Grid Fleece Top/Bottom, Set 1 ECW (Happy) Parka NA MWTC IIF ECW (Happy) Boties NA MWTC IIF ECW (Happy) Boties NA	Summer Mountain Leaders Course							
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PolyPro Top/Bottom, Set 2 MWTC IIF Grid Fleece Top/Bottom, Set 1 MWTC IIF ECW (Happy) Parka NA MWTC IIF ECW (Happy) Trousers NA MWTC IIF ECW (Happy) Booties NA MWTC IIF Image: NA MWTC IIF Image: Notes: Notes: MWTC IIF Image: Notes: Notes: MWTC IIF Image: Notes: Image: Notes: MWTC IIF Image: Notes: Notes: MWTC IIF Image: Notes: Image: Notes: Image: Notes: Notes: Notes: Image: Notes:	Socks, White PT, Pair	4		ltem	QTY	Note		
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Grid Fleece Top/Bottom, Set 1 MWTC IIF ECW (Happy) Parka NA MWTC IIF ECW (Happy) Parka NA MWTC IIF ECW (Happy) Trousers NA MWTC IIF ECW (Happy) Booties NA MWTC IIF	PolyPro Top/Bottom Set	2	MWTC IIF	Weapons cleaning gear	1			
ECW (Happy) Parka NA MWTC IIF ECW (Happy) Trousers NA MWTC IIF ECW (Happy) Booties NA MWTC IIF Ietter of transmittal is required in regard to your NVGs. Ietter of transmittal is required in regard to your NVGs.						Recommended		
ECW (Happy) Trousers NA MWTC IIF ECW (Happy) Booties NA MWTC IIF Notes: MWTC IIF will only supply items if you have not been issued from your parent unit IIF. / letter of transmittal is required in regard to your NVGs.				Compass	<u> </u>	Recontiniended		
ECW (Happy) Booties NA MWTC IIF letter of transmittal is required in regard to your NVGs.				Notes: MWTC IIF will only supply items if you have not been	issue	d from your parent unit IIF. A		
						Jour parone une in TA		
	ECW Mittens (Outdoor Research)	NA	MWTC IIF					
Neck Gaiter 1 MWTC IIF				1				
Fleece Cap 1 MWTC IIF				1				
Finger Gloves, Insulated 1 MWTC IIF				1				
Contact Gloves, (personal ok) 2 MWTC IIF								
3/4 Gaiters (Outdoor Research) 1 MWTC IIF								
Balaclava 1 MWTC IIF								
USMC Running Suit/Sweats 1 Optional/ Recommended	USMC Running Suit/Sweats	1	Optional/					
PT Shorts 2	PT Shorts	2	Necommended					
PT Shoes 1 Trail style			Trail style					
recommended	FT SHOES	· '	recommended					



Winter Mountain Leaders Course Program of Study M24M7B1

1. WMLC Learning Program Overview: The Mountain Leaders Curricula aboard the Marine Corps Mountain Warfare Training Center are 35 training days that will challenge learners in planning, operating, and sustaining units

in complex, compartmentalized terrain as well as tactical employment of units in this challenging environment. Learners are taught tactics, techniques, and procedures (TTPs) across warfighting functions to serve as leaders and facilitate others in these considerations with their parent unit.

2. Course Description: This course is designed to provide company grade officers, SNCOs, and Sergeants academic instruction and field application in the use of specialized mountain and cold weather equipment, mountain warfare TTPs, including planning considerations across warfighting functions for offensive and defensive operations in complex, compartmentalized, mountainous terrain.

Historical case studies are used in highlighting numerous lessons learned. Learners conduct operations in the local training area to familiarize them with operating in deep snow, wet cold to intense cold temperatures, high altitude, and mountainous terrain.

3. Program Outcomes: To develop subject matter experts on the care and use of mountain and cold weather equipment, environmental and mobility skills, and small unit tactics in order to enable them to facilitate company-sized units to conduct offensive and defensive operations in this environment. The desired end state is a course graduate who will increase a unit's endurance/survivability, mobility, and sustainability and assist unit leaders in planning and advising in this environment.

WMLC Phases: Beginning with the orientation of Pre-Environmental Training (PET), through progressive conditioning, equipment familiarization, mobility training, TTP development, planning, survival, tactical scenarios, TDGs & DFCs, and force on force training; the Winter Mountain Leaders Course will develop attributes as follows: Mountain leaders will demonstrate the abilities to plan, advise, and execute operations in a cold weather environment with specific equipment, planning abilities to conduct and sustain operations in the mountainous and cold weather operating environments.

Phase I: PET and Mountain Introduction: This phase begins with PET, an immersive experience in understanding the nuances of mountain and cold weather operations. Learners will be shown specifics pertaining to mountain health awareness, mountain weather, cold weather clothing and equipment, warfighting loads, military ski equipment, and how to mitigate leadership challenges in this environment, as well as TTPs while operating.

Phase II: Field Introduction: Learners are introduced to cold weather and mountainous field skills. Learners then practice using the equipment in the field during the first shorter field exercise. They are introduced to sustaining themselves in the environment, snowshoe, cross-country ski, basic avalanche knowledge, and both tent systems.

Phase III: TTPs: In this phase learners will conduct shorter tactical scenarios to introduce the TTPs to win in a mountainous environment. Instruction focuses on how they can best advise commanders on cold weather and mountainous operations.

Phase IV: Over the Snow Mobility: Learners will be shown how to achieve and provide mobility to supported units through specialized mountaineering training. This phase is heavily emphasized, as mobility is a critical requirement in this environment. During this phase learners will receive in-

depth instruction and practical application in cross country and downhill ski techniques as well as starting to introduce some advisory classes. They will finish this phase as a Basic Ski Instructor.

Phase V: Final Exercise (FEX)/Graduation: As the culminating event of the training program, the learners will be issued a tactical scenario complete with operations order and multiple fragmentary orders as the scenario progresses. They will spend the longest continuous time in the field, forcing themselves to sustain and apply all the skills they have learned since the beginning of the course in order to assess their abilities to serve as enablers and advisors in this environment. Learners having completed all requirements at this point will attend a graduation ceremony and outprocessing in order to return to their units.

4. Participation and Assessments: Due to the depth of knowledge and skills throughout this course, and likelihood of minimal previous experience in this environment, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics; these range across the environment, equipment, TTPs, planning, survival, advising, practical application, written tests, and mobility.

Scope of Evaluation: Objectives and outcomes are measured by (a) performance examination requiring individuals to perform tasks under conditions similar to those in a combat environment, (b) written examination requiring the individual to retain critical knowledge, (c) peer evaluation where learners evaluate each other's ability to overcome environmental stresses, and (d) leadership evaluation where facilitators evaluate leadership performance. All four components are weighted and used to calculate the learners overall rank in the course.

Performance Examination: Performance examinations are used to assess proficiency or end result where the learning objective has only one outcome. Process examinations are used to assess procedural learning objectives and outcomes. Performance checklists will be used for process examinations of a technical nature. Learners are provided performance checklists prior to the exam and practical application with coaching. An academic review board may be conducted for any learner who fails two or more performance events and may result in the learner being academically dropped from the course.

Written Examinations: These are used to assess retention and application of knowledge. Eighty percent of the test items assigned to the objectives or stated outcomes must be answered correctly in order to achieve knowledge proficiency of an objective. In the event that an individual does not show proficiency on a written examination, they are retested against a different version of the original examination. Individuals are provided adequate time for study prior to the administration of a written examination. An academic review board may be conducted for any learner who fails two or more written tests and may result in the learner being academically dropped from the course.

Leadership Evaluations: Leadership Evaluations are conducted during the course. Bottom ranked learners are subject to an academic review board per discretion of faculty advisors. Peers rank members in their squad or platoon based on provided evaluation criteria. Facilitators provide feedback based on provided evaluation criteria. A learner may be dropped for failure to correct leadership issues after receipt of formal written counseling from the course chief.

Demonstration of Course Proficiency: Learners meet/attain course completion criteria when all testable items are satisfied to include the written examinations, all product and process-based performance examinations, and accurate delivery of their assigned teach-backs to demonstrate knowledge retention. All failures to demonstrate proficiency will be allotted additional time to remediate. Learners will be briefed prior to the conduct of any initial or remedial examination. Failure to demonstrate successful remediation of any examination may constitute an academic drop from the course.

5. AARs: Each learner will be assigned to a squad with a faculty advisor. Individual counseling is given by the faculty advisor to each learner on their proficiency during a particular phase. A dedicated period will be given at the culmination of the course to assess the class's overall proficiency of all knowledge, skills, and attitudes evaluated throughout the FEX. The end of course survey provided by a representative from the academic's section will allow for learners to give their unbiased feedback regarding the conduct of the course.

6. Schedule:

Red indicates High Risk Training

Phase I: PET and Mountain Introduction					
AD-1					
AM	WELCOME ABOARD.	ADMIN- 02-03- 04			
AM	ENVIRONMENTAL BRIEF.	ADMIN- 04			
AM	PERSONAL COLD WEATHER CLOTHING. Learners can employ personal cold weather clothing & equipment to prevent environmental injuries, understanding the design principles of various cold weather clothing layers through application of the acronym VIP/COLD.	MW-010			
PM	MOUNTAIN WARFIGHTING LOAD REQUIREMENTS. Learners are able to identify and apply specifics to packing a warfighting load in a mountainous and cold weather environment.	MW-011			
PM	REQUIREMENTS FOR ENVIRONMENTAL FACTORS / WATER PROCUREMENT / EXPEDIENT SHELTERS / FIRES. Environmental considerations and examples of expedient shelters & fires in this environment.	MW- 128/129/ 130			
TD-1					
AM-PM	IIF ISSUE/ROPE ROOM ISSUE.	ADMIN- 05			
PM	MILITARY SKI EQUIPMENT. Learners receive demonstration and class on military ski bindings and fitting.	MW-017			
TD-2		1			
AM	MOUNTAIN WEATHER. Learners will be able to identify and recognize weather patterns that occur in a mountainous environment.	MW-004			
AM	ROUND ROBIN 1: MCCWIK, SUES Stove Test, MRE Cooking: Learners are able to identify the components of the Marine Corps Cold Weather Infantry Kit and successfully employ them in a mountainous/cold weather environment. Learners understand how to safely set up and utilize the Small Unit Expeditionary Stove (SUES).	MW- 016/068			
AM	ROUND ROBIN 2: 4-Person Tent: Learners receive demonstration and practical application of the 4-person Extreme Cold Weather fire-team tent.	MW-015			

AM	ROUND ROBIN 3: 15-person Arctic Shelter, stove/heater: Learners receive demonstration and practical application of the 15-person arctic shelter and SHC60 Heater.	MW- 016/019
PM	MILITARY SKI EQUIPMENT. Learners receive demonstration and class on military ski equipment and use.	MW-017
PM	SKI EQUIPMENT PRAC APP. Prepare equipment for use during course.	MW-017
TD-3		[
AM	LEADERSHIP CHALLENGES DECISION FORCING CASE.	MW-003
AM	MOUNTAIN SAFETY. Learners are able to identify/apply the considerations of safety while operating in a mountainous/cold weather environment.	MW-001
AM	CONCEPT OF EMPLOYMENT / CONDUCT A ML MEETING. IAW MCTP 12-10A Mountain Warfare Operations, learners will understand the role of the ML and begin to understand advisory & mobility considerations in this environment.	MW-003
PM	ASSESS AVALANCHE DANGER. Leaners are able to identify/apply learning outcomes of avalanche danger assessments, rescue, and CASEVAC techniques.	MW-100
PM	MOUNTAIN HEALTH AWARENESS. Learners will understand ways the human body generates and loses heat, cold weather injuries, and high-altitude considerations and injuries.	MW-002
PM	EFFECTS OF COLD WEATHER ON WEAPONS AND EQUIPMENT.	MW-101
Phase II:	Field Introduction	
TD-4		-
AM	TRANSCEIVER INTRO AND PRAC APP. Demonstration and practical application of avalanche transceivers.	MW-100
AM	avalanche transceivers. MILITARY SNOWSHOES / SLED MOVEMENT / BASIC PROCEDURES AT HALT / TRAIL BREAKING & CUTTING. Learners will understand how to move with	MW-068
AM	avalanche transceivers. MILITARY SNOWSHOES / SLED MOVEMENT / BASIC PROCEDURES AT HALT / TRAIL BREAKING & CUTTING. Learners will understand how to move with MCCWIKs, continuing actions, and roles of trail breaking team to enable movement. WINTER CASUALTY EVACUATION. Learners will be given a class on casualty	MW-068 MW-037
AM AM PM	avalanche transceivers. MILITARY SNOWSHOES / SLED MOVEMENT / BASIC PROCEDURES AT HALT / TRAIL BREAKING & CUTTING. Learners will understand how to move with MCCWIKs, continuing actions, and roles of trail breaking team to enable movement. WINTER CASUALTY EVACUATION. Learners will be given a class on casualty evacuation specific to a snow-covered, mountainous environment.	MW-068 MW-031 MW-031 MW-031
AM AM PM PM	avalanche transceivers. MILITARY SNOWSHOES / SLED MOVEMENT / BASIC PROCEDURES AT HALT / TRAIL BREAKING & CUTTING. Learners will understand how to move with MCCWIKs, continuing actions, and roles of trail breaking team to enable movement. WINTER CASUALTY EVACUATION. Learners will be given a class on casualty evacuation specific to a snow-covered, mountainous environment. CASEVAC PRAC APP: Learners conduct casualty evacuation scenario +1km. 15-PERSON TENT CONSTRUCTION. Learners will apply the eight site-selection criteria and five special use areas to conduct bivouac site and routine in snow-covered	MW-068 MW-031 MW-031

TD-5						
AM	FUNDAMENTALS OF SKIING: BERP (BALANCE, EDGE CONTROL, ROTARY MOVEMENT, AND PRESSURE), SKI WAX DEMO, INTRO TO SKIING. Introduction to fundamentals of skiing.					
PM	SNOW PIT ANALYSIS. Demonstration & practical application on methods to conduct analysis of snow layers.					
PM	MILITARY SKI SEQUENCE. Cross-country ski movement techniques and practical application (station training by technique).					
TD-6		1				
PM	FIGHTING POSITIONS AND 4-PERSON TENT PIT DEMO, BIVOUAC IN A SNOW- COVERED ENVIRONMENT. Class, demonstration & practical application.	MW-107				
PM	TRACK PLAN CONSTRUCTION AND TENT ROUTINE. Class, demonstration & practical application.	MW-107				
PM	TENT ROUTINE / TRACK PLAN REMEDIATION. Class, demonstration & practical application.	MW- 015/107				
TD-7		1				
AM	SNOW PIT ANALYSIS. Demonstration & practical application on methods to conduct analysis of snow layers.	MW-064				
PM	MILITARY SKI SEQUENCE. Cross-country ski movement techniques and practical application.					
PM	RESCUE AN AVALANCHE VICTIM PRAC APP. Team practical application followed by class practical application.	MW-066				
TD-8		L				
AM	EFFECTS OF COLD WATER ON BODY, ICE BREAKING. Learners will understand & apply rewarming techniques.	MW-064				
PM	ROUTE SELECTION AND PLANNING. Discussion and iterations on route planning & map work.	MW-105				
Phase III	: TTPs					
TD-9						
AM	MILITARY SKI SEQUENCE. Cross-country ski movement techniques and practical application.	MW-070				
PM	SNOW COVERED CAMOUFLAGE TECHNIQUES & SIGNATURE MANAGEMENT. Class, demonstration & practical application.	MW-069				
TD-10		I				
AM	LEARNER LED SKI TOUR.	MW-70				
AM	SKIJORING CLASS. Class, demonstration & practical application.	MW-067				
AM	CROSSING AVALANCHE PRONE TERRAIN CLASS.	MW-100				

РМ	MILITARY SKI SEQUENCE. Cross-country ski movement techniques and practical application.	MW-070
PM	NIGHT SKI.	MW-070
PM	LIGHT AND NOISE DISCIPLINE. Facilitator demonstration.	MW-069
TD-11		
AM	LEARNER LED SKI TOUR.	MW-70
		WMLC-
AM	SHOOTING POSITIONS, IA/CONTACT DRILLS, AND PRAC APP.	FIRE&M VMT
PM	DECEPTION AND DUMMY TRACKS & TRACK PLANS. Facilitator demonstration.	MW-107
РМ	AMBUSH CONSIDERATIONS. Class, demonstration & practical application.	WMLC- SKIFIRE POS/M W-116
PM	AMBUSH ORDER.	
TD-12		
AM	GEAR PREP/ORDERS PROCESS.	
AM-PM	SKI MOVEMENT TO AMBUSH POSITION / CONDUCT AMBUSH.	MW-070
TD-13		
AM	RANGE INSPECTION/ SAFETY BRIEF.	ADMIN- 01
AM	WEAPON OPTIC ZERO.	WMLC- BZO
AM	BULLET PENETRATION DEMONSTRATION. Learners will be shown and understand the effects of snow and ice relative to defensive positions.	WMLC- PENSH OOT
АМ	SKI BORNE SHOOTING POSITIONS. Learners will learn, rehearse, and conduct ski borne shooting positions and immediate action drills.	WMLC- FIRE&M VMT/SK IFIREP OS
РМ	BIATHLON EXAM.	EXAM- BIATHL ON
PM	LINE OUT / LIVE TO BLANK TRANSITION 1/ RANGE INSPECTION.	
PM	HOW TO TEACH SKIING / ASSIGN TEACH BACKS. Faults, cues, & corrections for teaching ski fundamentals to new skiers.	MW-074
PM	MILITARY SKI EQUIPMENT PT 2. Learners receive demonstration and class on downhill ski wax.	MW-017
		1

PM	PEER EVALUATION 1. Assess peer performance TD 1-10.	ADMIN- 02
AD-2		I
AM-PM	INSTRUCTOR PREPARATION AT MAMMOTH.	
PM	GEAR INSPECTION (SKIS).	MW-070
PM	TRANSPORTATION TO MAMMOTH.	ADMIN- 01
Phase IV:	Over the Snow Mobility	
TD-14		
AM	CROSS-COUNTRY TECHNIQUES.	MW-070
AM	GEAR INSPECTION (SKIS), WARM UP, SKIERS RESPONSIBILITY, GLIDING TO BRAKING WEDGE, RIDING THE LIFT: Learners are shown and understand ski fundamentals and skiing safety (resort right of way, how to get on/exit lift, etc).	MW-070
PM	DOWNHILL SKI SEQUENCE.	MW-070
TD-15		
AM	CROSS-COUNTRY TECHNIQUES.	MW-070
AM-PM	DOWNHILL SKI SEQUENCE.	MW-070
TD-16		
AM	CROSS-COUNTRY TECHNIQUES.	MW-070
AM-PM	DOWNHILL SKI SEQUENCE.	MW-070
TD-17		
AM	CROSS-COUNTRY TECHNIQUES.	MW-070
AM-PM	DOWNHILL SKI SEQUENCE.	MW-070
PM	WRITTEN TEST 1: PET.	EXAM- W1
PM	HOW TO TEACH SKIING PART 2.	EXAM- W1
TD-18		
AM	CROSS-COUNTRY SKI EXAM (P1).	EXAM- SKI MVT
AM	DOWNHILL SKI EXAM (P1).	EXAM- SKI
PM	INFORM LEARNERS OF FAILURES.	

PM	TRANSPORTATION TO MCMWTC.	ADMIN- 01	
PM	ASSIGN ORDERS.	WMLC-	
		FEX	
PM	WRITTEN TEST 1 (P2): PET.	EXAM- W1	
AD-3		I	
AM	CROSS-COUNTRY SKI EXAM (P2).	EXAM- SKI MVT	
AM	DOWNHILL SKI EXAM (P2).	EXAM- SKI	
TD-19		OR	
AM	WARFIGHTING FUNCTIONS. Classroom, facilitator led class & discussion.	MW- 115/116	
PM	AIR CONSIDERATIONS.		
AM	FIRE SUPPORT PLANNING CONSIDERATIONS. Classroom, facilitator led class & discussion.	MW-114	
PM	OFFENSIVE AND DEFENSIVE CONSIDERATIONS. Classroom, facilitator led class & discussion.		
PM	ICE RECONNAISSANCE, CROSSING, RESCUE. Classroom, engineer facilitator led class & discussion.	MW-064	
PM	SKI EQUIPMENT PRAC APP. Prepare equipment for use during course.	MW-017	
PM	ROLE OF THE MOUNTAIN LEADER.		
РМ	MILITARY SKI EQUIPMENT. Learners receive demonstration and class on Military Ski System.	MW-017	
TD-20		<u> </u>	
AM	Air Rehearsals.		
AM	INSERT TO SUMMIT MEADOWS.	ADMIN- 01	
PM	SKI MOVEMENT TO DEFENSE POSITION/DEFENSE OCCUPATION AND CONDUCT (sustain/continuing actions).	MW-115	
TD-21		I	
AM	TRANSCEIVER AND SNOW PIT ASSESSMENT BLOCK. Facilitator demonstration & learner practical application.	MW- 064/100	
AM-PM	ICE AXE TECHNIQUES, CRAMPON TECHNIQUES, GLISSADING AND SELF- ARREST. Facilitator demonstration & learner practical application.	MW- 058/059/ 060	

MOUNTAIN PICKETS CLASS. CONTINUATION OF DEFENSE.	MW-116 MW-115
CONTINUATION OF DEFENSE.	MW-115
BREAKDOWN OF DEFENSIVE POSITION.	
MOUNTAIN MOVEMENT EXAM: 8km timed movement in 2.5hrs.	EXAM- SKI MVT
ENVIRONMENTAL CONSIDERATIONS (EXPEDIENT SHELTERS AND FIRES): Class and environmental skills practical application.	MW- 128/129
END ENVIRONMENTAL CONSIDERATIONS PRACTICAL APPLICATION.	MW-125
ASSIGN FEX ORDERS.	WMLC- FEX
EX/Graduation	
WRITTEN TEST 2: Avalanche, warfighting considerations, etc.	EXAM- W2
GEAR PREP/AIR REHEARSALS/ORDERS PROCESS.	
WRITTEN TEST 2 (P2): Avalanche, warfighting considerations, etc.	EXAM- W2
AIR INSERT.	WMLC- FEX
LEARNERS MOVEMENT TO MOUNTAIN PICKETS.	WMLC- FEX
LEARNERS RETROGRADE FROM MOUNTAIN PICKETS.	WMLC- FEX
SQUAD ICE BREAKING DRILL.	WMLC- FEX
CONDUCT INFILTRATION.	WMLC- FEX
MOVEMENT TO ORP/AMBUSH CONDUCT.	WMLC- FEX
	ENVIRONMENTAL CONSIDERATIONS (EXPEDIENT SHELTERS AND FIRES): Class and environmental skills practical application. END ENVIRONMENTAL CONSIDERATIONS PRACTICAL APPLICATION. ASSIGN FEX ORDERS. EX/Graduation WRITTEN TEST 2: Avalanche, warfighting considerations, etc. GEAR PREP/AIR REHEARSALS/ORDERS PROCESS. WRITTEN TEST 2 (P2): Avalanche, warfighting considerations, etc. AIR INSERT. LEARNERS MOVEMENT TO MOUNTAIN PICKETS. LEARNERS RETROGRADE FROM MOUNTAIN PICKETS. SQUAD ICE BREAKING DRILL. CONDUCT INFILTRATION.

	1	
AM-PM	MOVEMENT TO ATTACK POSITION / DELIBERATE ATTACK.	WMLC- FEX
PM	FORCE ON FORCE.	WMLC- FEX
TD-29		
AM-PM	FORCE ON FORCE.	WMLC- FEX
TD-30		
AM-PM	FORCE ON FORCE.	WMLC- FEX
TD-31		
AM-PM	FORCE ON FORCE.	WMLC- FEX
TD-32		
AM-PM	FORCE ON FORCE.	WMLC- FEX
PM	ENDEX.	WMLC- FEX
PM	PEER EVALUATION 2: FEX focused.	ADMIN- 02
TD-33		·
AM	GEAR MAINTENANCE.	ADMIN- 07
AM-PM	FINAL EXERCISE DEBRIEF.	WMLC- FEX
TD-34		
AM	GEAR MAINTENANCE & TURN IN.	ADMIN- 05/07
PM	GRADUATION PRACTICE.	ADMIN- 09
PM	END OF COURSE SURVEYS.	ADMIN- 08
TD-35		
AM	SQUAD BAY INSPECTION.	ADMIN- 10
AM	TURN SQUAD BAY OVER TO S4.	ADMIN- 10

AM	S-1 OUTPROCESSING.	ADMIN- 03
AM	GRADUATION PRACTICE.	ADMIN- 09
AM	GRADUATION.	ADMIN- 09
AM	MOVEMENT TO RENO.	ADMIN- 01

7. Mandatory Readings: During the course, learners will be required to read FMFRP 12-48 *On Winter Warfare* by George Swinzow.

8. Recommended Readings:

The Last Stand of Fox Company by Tom Clavin

Historical Perspective of the Light Infantry by Scott McMichael

Kargil: From Surprise to Victory by V. P. Malik

Not A Good Day to Die by Sean Naylor

The Bear Went Over the Mountain and The Other Side of the Mountain by Lester Grau and Ali Jalali

Return of a King by William Dalrymple

Understanding the India China Border by Manoj Joshi

The Winter Army by Maurice Isserman

MCTP 12-10A Mountain Warfare Operations: <u>USMC Doctrine - Home (sharepoint-mil.us)</u> MCRP 12-10A.1 Small Unit Leader's Guide to Mountain Warfare Operations

MCRP 12-10A.2 Mountain Leader's Guide to Winter Operation

MCRP 12-10A.4 Cold Region Operations

ATP 3-90.97 Mountain Warfare and Cold Weather Operations

ATP 3-21.50 Infantry Small-Unit Mountain and Cold Weather Operations

A Blue Arctic

Regaining Arctic Dominance

		v	/inter Mountain Leaders Course		
REQUIRED ADMIN			Hygiene Kit		
Reporting Orders			Item	QTY	Note
Command Screening Checklist	1		Tooth Brush	1	Note
*First class PFT required within 30 c		report date	Tooth Paste	1	
Identification Card	1		Floss	1	
	<u> </u>		Razor w/Extra Blades	1	
Gear and Equipment	nt		Shaving Cream	1	
Item	QTY	Note	Chapstick	2	
USMC Pack w/Sustainment Pouches	1	MWTC IIF	Sunscreen	1	
Assault Pack w/WP liner	1	MWTC IIF	Towel	2	
Sleeping Bag - Tan	1	MWTC IIF	Shower Shoes	1	
Sleeping Bag - Black	1	MWTC IIF	Shower Shoes		
Bivy Sack	1	MWTC IIF	MISC		
,	_		-	OTV	N - 4 -
ISO Mat	1	MWTC IIF	Item	QTY	Note
MARPAT Tarp	1	MWTC IIF MWTC IIF	Notebook	1	For the Classroom
Poncho Liner	1		Write-in-the-rain		For The Field
Nalgene Nalgene Carrier	2	MWTC IIF MWTC IIF	Pen Pencil	2	
Nalgene Carrier Nalgene Cup	2	MWTC IIF	Pencil Highlighter	1	
Nalgene Cup Hydration Bladder - 3Liter	1	MWTC IIF	Highlighter Map Pen Set w/Eraser Pen	1	
Hydration Carrier	1	MWTC IIF	Protractor	1	
IFAK	1	MWTC IIF	Combination Lock	2	For squad bay
Chest Rig/LBV/Belt with Mag pouches	1	WINT CIF	Proper Civilian Attire	1	For squad bay
Chest Rig/LBV/Beit with Mag pouches			Eve Protection w/Clear and Dark Lenses	1	
Uniform Items			Red Lens Flashlight or Headlamp W/ Batteries	2	
	OTV	Nata	, i i i i i i i i i i i i i i i i i i i		
Item	QTY	Note	Knife or Multi-tool (fixed blade and multi tool recommended)	1	
Utilities - MARPAT Woodland	4		550 Cord	50ft	
GoreTex Top/Bottom - MARPAT Woodland Garrison Cover - MARPAT Woodland	1		Laundry Bag	-	For Electronic Dublications
Boonie Cover - MARPAT Woodland	1		Personal Electronic Devices (Laptop, Tablet, Cell Phone) Water profing bags/dry sack/gallon zip locks		For Electronic Publications
Skivvie Shirt	3		Extra AA/AAA batteries		
Underwear	6		Extra AA/AAA batteries		
Socks, Brown, Pair	6	Recommend Wool	Weapons and Optics	、 、	
Socks, White PT, Pair	4	Recommenta Wool	Item	QTY	Note
Socks, While PT, Pail	4		liem	QIT	Note
USMC Boots	2		NVG	1	w/SL3, and mounting hardware
PolyPro Top/Bottom, Set	2	MWTC IIF	Weepene elegning geer	1	-
Grid Fleece Top/Bottom, Set	2	MWTC IIF	Weapons cleaning gear	1	Booommandad
ECW (Happy) Parka	NA	MWTC IIF	Compass	1 1	Recommended
	NA	MWTC IIF	Nataa MWTO UE will only arms he former former here	- les ··· ·	
ECW (Happy) Trousers ECW (Happy) Booties	NA	MWTC IIF MWTC IIF	Notes: MWTC IIF will only supply items if you have not been	n issued	from your parent unit IIF. A
	_	MWTC IIF	letter of transmittal should be brought with your NVG.		
ECW Mittens (Outdoor Research) Neck Gaiter	NA 1	MWTC IIF	-		
Fleece Cap	1	MWTC IIF	1		
Figer Gloves, Insulated	1	MWTC IIF	1		
Contact Gloves, (personal ok)	2	MWTC IIF	1		
3/4 Gaiters (Outdoor Research)	2	MWTC IIF	1		
Balaclava	1	MWTC IIF	1		
Dalaciava		Optional/			
USMC Running Suit/Sweats	1	Recommended			
PT Shorts	2				
	2	Trail style			
PT Shoes	1	recommended			
		recommended			



Mountain Communications Course Program of Study M24CXJ1

1. Learning Program Overview: The Mountain Communications Course is designed to provide instruction in the unique aspects and challenges of communications in a mountainous environment. Additionally, the course provides learners awareness and understanding of command-and-control (C2)

challenges, environmental considerations, and mobility in support of MAGTF operations. The desired result is a learner graduate who has an enhanced knowledge base and skills that allow them to operate in austere environments while enabling C2 in support of high altitude, mountainous, and cold weather combat operations.

2. Course Description: This is a 15-day course with subjects inclusive of the use of specific radios in a mountainous environment, antenna types and construction in the mountains, radio wave theory, and retransmission site selection and operations considerations. Graduates are capable of providing mountain communications considerations training for units. Sending learners to this course is recommended for units conducting the Mountain Exercise portion of the MAGTF Warfighting Exercise SLTE to enable C2.

3. Program Outcomes: This learning program is designed to train service members to become proficient in all aspects of mountain communications. Learners are taught basic mountain mobility, communications for employment in a mountainous environment, and communications equipment limitations and capabilities. Graduates will be capable of advising communications operations planning in complex, compartmentalized, mountainous terrain and be able to instruct parent units on the employment considerations of communications equipment.

Learners are organized into squads for study, practical application, and evaluations during the phases of the course.

Phase I: Pre-Environmental (PET)/Communications Basics: PET will provide learners with understanding of mountainous terrain, weather, and environment as well as confidence in specific equipment. Communications basics provides learners a refresher in radio theory, field expedient antenna construction, and capabilities and limitations of communications systems in this environment.

Phase II: Basic Mobility and Communications Practical Application: In this phase learners will focus on utilization of communications basics from the previous phase, understand the challenges of movement in this environment, and conduct practical application for HF communications.

Phase III: Final Exercise (FEX): Learners will demonstrate knowledge of and the abilities to conduct land navigation, field expedient antennas, long-range communications, retransmission site selection, COC operations, and ground CASEVAC considerations.

Phase IV: Administrative: Administrative process for learners (gear maintenance and turn-in/graduation), also second attempt on written test.

4. Participation & Assessments: Due to the depth of knowledge and skills throughout this course, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics. Environmental, planning, technical, and field training phases of the course are evaluated through assessments (inclusive of performance, written, and verbal methods). Observation of learners' participation and evaluation (with subsequent coaching and mentoring) occurs throughout all phases.

Performance Examination or end result need be evaluated. Process examination is used to evaluate an outcome. There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product e when both the end result and the process require assessment. This type of examination will be assessed using a performance evaluation checklist, teach back, or behaviorally anchored rating scale designed to demonstrate proficiency of the outcome. Individuals are provided ample time for practical application prior to being administered a performance examination.

Written Examination. The proficiency of outcomes is identified through the results of a written examination. A written examination consists of test items assigned to one or more outcomes. The types of test items on a written examination may be open ended questions or multiple choice. Eighty percent of the test items must be answered correctly in order to demonstrate proficiency on the test. In the event that an individual does not demonstrate proficiency on a written examination, they will be retested against a different version of the original examination. Individuals are provided adequate time for study prior to being administered a written examination.

Course Completion Criteria: A learner is considered to have completed the course of instruction when the objectives and or outcomes have been completed to standard. Failure to demonstrate proficiency of an objective or outcome in the individual's first attempt results in the individual receiving additional instruction and an additional opportunity to demonstrate proficiency. Failure to demonstrate proficiency of an objective or outcome in the individual's second attempt results in the individual's network to demonstrate proficiency. Failure to demonstrate proficiency of an objective or outcome in the individual's second attempt results in the individual's referral to an Academic Review Board to determine the follow-on course of action.

5. AARs: Informal reviews by training day, completion of phases, and in-stride/by event are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after the communications shots and the final exercise are aimed at solidifying proficiency with the learning outcomes and objectives.

Phase I: F	PET/Communications Basics	
TD-1		
AM	COURSE OVERVIEW / LEARNER COUNSELING.	ADMIN- 01, 03
AM	ENVIRONMENTAL BRIEF.	ADMIN- 01
AM-PM	MOUNTAIN LEADERSHIP CHALLENGES. Learners will have a clear understanding of good and poor leadership attributes in a mountainous/cold weather environment.	MW-003
РМ	PERSONAL COLD WEATHER CLOTHING AND EQUIPMENT. Learners can employ personal cold weather clothing & equipment to prevent environmental injuries, understanding the design principles of various cold weather clothing layers through application of the acronym VIP/COLD.	MW-010
PM	MOUNTAIN WARFIGHTING LOAD REQUIRMENT. Learners are able to identify and apply specifics to packing a warfighting load in a mountainous and cold weather environment,	MW-011
PM	MOUNTAIN SAFETY. Learners are able to identify/apply the considerations of safety while operating in a mountainous/cold weather environment.	MW-001

6. Schedule: (am/pm format by day with any associated readings and general outcomes).

РМ	MOUNTAIN HEALTH AWARENESS. Learners will understand ways the human body generates and loses heat, cold weather injuries, and high-altitude considerations and injuries.	MW-002		
PM	MOVEMENT IN MOUNTAINOUS TERRAIN. Familiarize learners with considerations for efficiently moving through a mountainous environment.			
РМ	BIVOUAC ROUTINE. Learners can identify/apply the considerations of a bivouac site in a mountainous/snow covered environment.	MW-063		
PM	CASUALTY EVACUATION. Learners will be given a class on casualty evacuation specific to a snow covered/mountainous environment.	MW-031		
РМ	PET TEST REVIEW. (Learners utilize study guide, notes, and course book).	ADMIN- 04		
TD-2	1			
AM	PET TEST. (Written: multiple choice and or short answer).	PET-XW		
AM	IIF DRAW.			
	INTRO TO SATCOM OPERATIONS CLASS. Understand the use of USMC Satcom asset.	MW-301		
РМ	TACTICAL ANTENNA EMPLOYMENT. Understand site selection considerations.	MW-308		
PM	MOUNTAIN OPERATIONS OF MAN-PACK RADIO SYSTEMS. Discuss and understand the importance of weatherproofing and limitations of equipment in this environment.	MW-303		
РМ	FIELD EXPEDIENT ANTENNAS. Understand the types of, discuss and utilize formulae to construct. Learners will construct antennas for basic mobility phase, utilize instructors' skills.	MW-301		
Phase II:	Basic Mobility and Communication Practical Application			
TD-3				
AM	PET RE-TEST. (Written: multiple choice and or short answer).	PET-XW		
AM	Current VHF Operations Class. Discuss and understand data and description as well as use of radio systems for retransmission capabilities.	MW-304		
AM	Current VHF Operations Practical Application. Programming and use of radio systems for retransmission capabilities by squad.	MW-304		
PM	Current UHF Operations and Tactical Chat Class. Capabilities and practical application (programming and use).			

		MW-306
РМ	COMM PLANNING AND MANAGEMENT. Understand communications principles as well as waveforms advantageous in various terrain scenarios.	MW-300
TD-4		
AM-PM	MOVEMENT TO TRAINING AREAS (~1.5KM)/FIELD EXPEDIENT ANTENNA PRAC APP/ ALE PRAC APP. Understand and utilize ALE and field expedient antennas in a field environment.	MW-301
РМ	Return to LBC.	
TD-5		-
AM	FIELD EXPEDIENT ANTENNA CONSTRUCTION. Learners led field expedient antenna construction.	MW-301
AM-PM	MOVEMENT TO TRAINING AREAS (~2KM)/FIELD EXPEDIENT ANTENNA PRACTICAL AP/ 3G+ PRAC APP. Understand advantages of 3G+ over ALE.	MW-301
РМ	Return to LBC/ COMM Test review.	ADMIN- 04
TD-6		
АМ	SATCOM OPERATIONS CONTINUED. Understand the use of USMC Satcom asset.	MW-301
AM-PM	REPORTS CLASS. Understand the use of USMC reporting process.	MW-301
РМ	COMM TEST REVIEW.	
TD-7		
AM	MOVEMENT TO TRAINING AREAS (~9KM)/FIELD EXPEDIENT ANTENNA PRACTICAL AP/ COMMUNICATIONS SHOT TO DISTANT END. Learners will construct antenna and perform HF communications shot.	MW-301
AM-PM	ASSESS AVALANCHE DANGER (WINTER). Learners will conduct snow pit analysis, avalanche rescue procedures and track plan operations if snow is present. ROPE MANAGEMENT (SUMMER). Learners are instructed and conduct knot tying and understand their function and use.	MW- 012, 100,
TD-8		
AM	MOVEMENT IN TRAINING AREA. ~4KM / FIELD EXPEDIENT ANTENNA PRACTICAL AP / COMMUNICATIONS SHOT TO DISTANT END. Learners will construct antenna and perform HF communications shot.	MW-301

AMPM	MOVEMENT IN TRAINING AREA. (~2KM).	
РМ	ASSESS AVALANCHE DANGER (WINTER). Learners will conduct snow pit analysis, avalanche rescue procedures and track plan operations if snow is present. ROPE MANAGEMENT (SUMMER). Learners are instructed and conduct knot tying and understand their function and use.	MW- 012, 100
TD-9		
АМ	MOVEMENT IN TRAINING AREA. (~4KM)/FIELD EXPEDIENT ANTENNA PRACTICAL AP/ COMMUNICATIONS SHOT TO DISTANT END. Learners will construct antenna and perform HF communications shot.	MW-301
AM-PM	Return to LBC.	
AM-PM	COMM TEST. (Written and short answer test oriented on discussions to this point of the course).	COMM- XW
Phase III:	Communication FEX	
TD-10		
AM	COMM RETEST. (Written and short answer test oriented on discussions to this point of the course)	COMM- XW
AM-PM	FEX BRIEF: Learners understand expectations and evaluation criteria.	
	FEX PREP / IIF GEAR REPLACEMENT / GEAR PACKOUT.	COMM- FEX
TD-11		
AM	PCC / PCI.	COMM- FEX
AM	VEHICLE INSERTION TO TAS.	COMM- FEX
	WINTER AND SUMMER. SQUAD 1: COC (POINT OF INSERT).	
AM-PM	SQUAD 2: RTX ELEMENT will be tasked to set COC set up a relay site or an RTX.	
	SQUAD 3: RECON ELEMENT will be given a second grid and will be tasked to implement site selection criteria for a COC	COMM- FEX
PM	COC TENT SETUP/ROUTE SELECTION PLANNING/ GEAR INSPECTIONS.	MW-104
TD-12		I

AM	WINTER AND SUMMER. SQUAD 3: COC (BIVOUAC)				
AIVI	SQUAD 1 RTX ELEMENT will be tasked to set COC set up a relay site or an RTX.	COMM-			
	SQUAD 2: RECON ELEMENT will be given a second grid and will be tasked to implement site selection criteria for a COC.	FEX			
AM-PM	COC TENT SETUP/ROUTE SELECTION PLANNING/ GEAR INSPECTIONS.	MW-104			
TD-13					
AM	SQUAD 2:COC (BIVOUAC)				
Alvi	SQUAD 3: RTX ELEMENT will be tasked to set COC set up a relay site or an RTX.				
	SQUAD 1: RECON ELEMENT will be given a second grid and will be tasked to implement site selection criteria for a COC	COMM- FEX			
AM-PM	SQUAD COMPETITION AND EGRESS TO BASE.	COMM- FEX			
Phase IV:	Administrative Out-processing and Graduation				
TD-14					
AM-PM	MAINTENANCE, EQUIPMENT RECOVERY, ADMINISTRATION/ COMM RE-TEST.				
TD-15					
AM	ADMINISTRATION & COURSE GRADUATION.	ADMIN- 06			
	1	1			

7. Mandatory Readings: There are no mandatory pre-work or readings, however section 8 of the program of study details recommended MarineNet videos and courses.

8. Recommended Readings & Pre-Course Work:

The Will to Communicate, Retaining freedom of action in a denied/degraded environment, Maj Paul L. Stokes, Marine Corps Gazette, September 2016

Maintaining C2, Controlling the electromagnetic Spectrum, Maj Paul L. Stoke, Marine Corps Gazette, January 2017

Propagation of Radio Waves and Antenna Construction, MARINENET Self-paced Course, Course Code: MCIZ0621ZZ

Radio Wave Characteristics, MARINENET 8 Minute video

MWTC Communication PET, MARINENET Facilitator Led Course (Learners enrolled when registered for MCOMM in MCTIMS)+

		Mountain (Communications Course Gear List			
REQUIRED ADMIN			Hygiene Kit			
Reporting Orders	1		Item	QTY	Note	
Command Screening Checklist	1		Tooth Brush	1		
Identification Card	1		Floss	1		
	<u> </u>		Razor w/Extra Blades	1		
Gear and Equipment			Shaving Cream	1		
Item	QTY	Note	Chapstick	2		
USMC Pack w/WP liner	1	Note	Sunscreen	1		
Assault Pack w/WP liner	1		Towel	2		
Sleeping Bag - Tan	1		Shower Shoes	1		
Sleeping Bag - Black	1	*See Notes			lI	
Bivy Sack	1	Oce Notes	MISC	_		
ISO Mat				QTY	hata	
-	1		Item			
MARPAT Tarp	1		Notebook	1	For the Classroom	
Poncho Liner	2		Write-in-the-rain	1	For The Field	
Canteen/Nalgene	-		Pen]	
Canteen/Nalgene Carrier Canteen/Nalgene Cup	2		Pencil Hiahlighter	2]	
	1			1		
Hydration Bladder - 3Liter Hydration Carrier	2		Map Pen Set w/Eraser Pen Protractor	1]	
Sustainment Carrier	2		Combination Lock	2		
	1		Proper Civilian Attire	2		
IFAK Chest Rig/LBV/Belt with Mag pouches	1	Optional	Eye Protection w/Clear and Dark Lenses	2		
Chest Rig/LBV/Beit with Mag pouches		Optional		1		
			Goggles w/Clear and Dark Lenses Red Lens Flashlight or Headlamp W/ Batteries	1		
Uniform Items	_		Lighter	1		
Uniform items			Knife or Multi-tool	1		
14		Nete	550 Cord	50ft		
Item	QTY				I	
Utilities - MARPAT Woodland Garrison Cover - MARPAT Woodland	2	No FROG	Laundry Bag	1	Fan Elastrania Dublicationa	
а а.			Personal Electronic Devices (Laptop, Tablet, Cell Phone)		For Electronic Publications	
Boonie Cover - MARPAT Woodland	1					
Skivvie Shirt	-		Wessens and Outles			
Underwear	6		Weapons and Optics			
Socks, Brown, Pair	6	Recommend Wool	Item	QTY	Note	
Goretex, Woodland Top/Bottom, Set	1		Kevlar w/ mount	1		
Polypro Top/Bottom, Set	2		Compass	1		
Grid Fleece Top/Bottom, Set	1	*See Notes				
ECW (Happy) Parka	1	*See Notes				
ECW (Happy) Trousers	1	*See Notes				
ECW (Happy) Booties	1	*See Notes	Notes: These items are recommended for all courses, requ			
ECW Mittens (Outdoor Research)	1	*See Notes	courses. Cold weather season courses are typically from Ja			
Neck Gaiter	1		students do not have access to cold weather gear, it can be	e issu	ed from MCMWTC IIF on T-	
Fleece Cap	2		Day 2. IIF WILL NOT DOUBLE ISSUE ANY GEAR.			
Finger Gloves, Insulated	1	*See Notes				
Contact Gloves, (Non-Cotton)	2	*See Notes				
Gloves, Leather	1					
3/4 Gaiters (Outdoor Research)	1	*See Notes				
Balaclava	1	*See Notes				
PT Attire	_	As required				
PT Shoes		As required				



MOUNTAIN SCOUT SNIPER COURSE Program of Study M24UNC1

1. Learning Program Overview: This course exposes learners to ballistics, fieldcraft, and operational considerations in a mountainous and cold weather environment.

2. Course Description: The Mountain Scout Sniper Course is a 23-day learning program designed to train Scout Snipers to be tactically and technically proficient in complex, compartmentalized, mountainous terrain. This course includes instruction in advanced marksmanship at high angles with current sniper systems and service weapons. Facilitation in high angle marksmanship includes range estimation, determining slope angle and flat line of distance, effects of vertical and angular distortion, effects of elevation, and the effects of extreme weather. Facilitation focuses on ballistics, fieldcraft, and operational considerations in a mountainous and cold weather environment.

3. Program Outcomes: This learning program focuses on facilitation of learners to become more effective as snipers in a mountainous and cold weather environment. Learners are taught the necessary skills to enable them to engage targets at high angles, communications considerations in this environment, and the effects of weather on weapon systems organic to the 0317/0321 Marine or service equivalent Military Occupational Specialty designators.

Phase I: Pre-Environmental Training (PET). PET will provide learners with an understanding of mountainous terrain, weather, and the environment; learners will understand material, equipment, and techniques and procedures for mitigating impacts to individuals and units in this environment.

Phase II: Mobility. In this phase, learners will be introduced to seasonally specific mobility means in this environment. In summer courses, learners will negotiate Class 1 through 5 terrain; in winter, learners will utilize skis and snowshoes.

Phase III: Field Training. In this phase, learners will be shown and practice patrolling, conduct mission profiles, and conduct team land navigation.

Phase IV: Marksmanship. In this phase, learners demonstrate knowledge of and understanding of ballistics considerations in this environment. Learners will engage moving and stationary targets from alternate shooting positions during both day and night scenarios.

4. Participation & Assessments: Due to the inherent challenges in this environment, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics. Environment, planning, technical, and field training phases of the course are evaluated through assessments (inclusive of performance and verbal methods).

There are two types of evaluation used to determine course completion criteria in the Mountain Scout Sniper Course. Objectives and outcomes are measured by performance examination requiring individuals to perform the task under conditions similar to those in a combat environment or by verbal examination requiring the individual to demonstrate their ability to retain critical knowledge. Product examination is used to assess an objective or outcome when only the final product or end-result need be evaluated. Process examination is used to evaluate an objective or outcome when both the end-result and the process require assessment.

Course Completion Criteria: At the completion of all courses of fire, a learner is considered to have completed the course when the objectives and or outcomes have been completed to standard while demonstrating the appropriate level of proficiency.

5. AARs: Informal reviews by training day, completion of phases, and in-stride/by event are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after movements and during the final exercise and at the end of each course of fire are aimed at solidifying learners' proficiency with the learning outcomes and objectives.

6. Schedule: (am/pm format by day with associated general outcomes).

Contact Course Chief for further details 760 932 1458. Warm Weather Course Schedule:

Red indicates High Risk Training

Phase I:	Administrative & PET	
TD-1		
AM	ARMORY TURN IN (Learner).	ADMIN 01
AM	WELCOME ABOARD BRIEF / IN PROCESSING.	ADMIN 01
AM	OIC WELCOME ABOARD.	ADMIN 01
AM	PERSONAL COLD WEATHER CLOTHING. Provide the learner with the knowledge and skills to analyze the weather conditions and select the appropriate clothing and equipment according to the environment.	MW-010
AM	IIF DRAW.	ADMIN 03
PM	ROPE ROOM EQUIPMENT DRAW.	ADMIN 03
PM	MOUNTAIN WEATHER. The purpose of this lesson is to introduce the learner with weather patterns, the invisible aspects of weather and some visible clues to help forecast weather.	MW-004
PM	ROPE MANAGEMENT. Learners are shown rope terminology, knots, utilization, and application of the issued ropes.	MW-012
TD-2		
AM	ARMORY ISSUE.	ADMIN 03
AM	RANGE CARD AND BATTLEFIELD ANALYSIS. Learners will receive a refresher and gain further understanding of proper range cards and battlefield analysis.	
AM	MOUNTAIN HEALTH. Provide the learners the information necessary to help prevent, recognize, and treat various health problems that can arise in a mountainous or cold weather environment.	MW-002
AM	MOUNTAIN LEADERSHIP CHALLENGES. Provide learners with lessons on leadership challenges in mountainous environments.	MW-003
PM	ROPE MANAGEMENT. Learners are shown rope terminology, knots, utilization, and application of the issued ropes.	MW-012
PM	RAPPELLING. Learners are shown the principles and techniques and conduct rappels.	MW-040
Phase II:	: Mobility	
TD-3		
AM	FOOT MOVEMENT LBC (LOWER BASE CAMP) TO LTA (LEAVITT TRAINING AREA) VIA LTA TRAIL ~6KM.	ADMIN 04
AM	ROUTE SELECTION AND PLANNING . Purpose is to familiarize learners with route selection in a mountainous environment.	MW-104

AM	MOVEMENT IN MOUNTAINOUS TERRAIN. Familiarize learners with considerations for efficiently moving through mountainous terrain.	MW-032
	WARFIGHTING LOAD REQUIREMENTS. Learners are taught the	
AM	required pocket items, survival items, and pack considerations for operating in a mountainous environment.	MW-011
AM	CLIFF RECONNAISSANCE. Learners receive a class on proper cliff reconnaissance reporting procedures.	MW-053
PM	NATURAL AND ARTIFICIAL ANCHORS. Practical Application.	MW-034
PM	RAPPELLING. Learners are instructed on the principles and techniques and conduct rappels.	MW-040
PM	NIGHT RAPPELLING. Learners conduct rappels with night vision devices.	MW-040
TD-4	•	
AM	FIXED LANES. Learners are instructed on how to establish a fixed lane and conduct practical application.	MW-051
AM	CASEVAC. Learners will be taught mountain CASEVAC procedures and receive instruction on SKEDCO construction and utilization.	MW-030
AM	CASEVAC TDG. Learners will receive a CASEVAC TDG and then perform a CASEVAC movement.	
PM	MOVEMENT TO LBC.	ADMIN 04
PM	ARMORY DRAW/GEAR PREPARATION.	
TD-5		
AM-PM	MISSION. Learners will conduct a full profile mission.	FEX / MW- 153 / MW- 155
AM-PM	HF COMMUNICATION.	
PM	LAND NAVIGATION. Learners conduct map and compass resection.	
Phase III:	Field Training	
TD-6		
AM-PM	LEARNERS CONDUCT FULL MISSION PROFILE.	
AM-PM	WATER PROCUREMENT, SURVIVAL, AND CAMOUFLAGE AND CONCEALMENT.	
TD-7		
AM-PM	LEARNERS CONDUCT FULL MISSION PROFILE.	
AM-PM	LIVE-FIRE STALK, FIXED LANES, TDG.	
TD-8		
AM	LIVE-FIRE STALK.	
TD-9		
AM-PM	LAND NAVIGATION TEAM COMPETITION.	
TD-10		
AM-PM	LAND NAVIGATION TEAM COMPETITION.	
AM-PM	MOTOR TRANSPORT TO LBC.	ADMIN 04
TD-11		
	MOUNTAIN MARKSMANSHIP/MOUNTAIN EXTERNAL	

	TREMOR3, KESTREL. Learners will receive a refresher and gain further	
AM	understanding of the sniper optic and kestrel.	
PM	RIFLE SET-UP/GEAR PREPARATION/ARMORY DRAW.	ADMIN 03
Phase IV	Marksmanship	
TD-12 (M	CMWTC LIVE-FIRE RANGE/S DAY 1)	
AM	MOVEMENT TO MCMWTC LIVE-FIRE RANGE.	ADMIN 04
AM	SNIPER RIFLE ZERO & CHRONO.	
AM	SNIPER RIFLE FLAT RANGE SHOOT.	
PM	SNIPER RIFLE KNOWN DISTANCE SHOOT.	
PM	UNLOAD VEHICLES AND BIVOUAC SET-UP.	
PM	RANGE ESTIMATION EXERCISE AND DEBRIEF.	
PM	RANGE CARD DEVELOPMENT.	
TD-13 (M	CMWTC LIVE-FIRE RANGE/S DAY 2)	
AM	SNIPER SYSTEM SHOOT.	MW-150
PM	SNIPER SYSTEM SHOOT.	MW-150
PM	DEBRIEF/RANGE CARD DEVELOPMENT.	
TD-14 (M	CMWTC LIVE-FIRE RANGE/S DAY 3)	
AM	SNIPER SYSTEM SHOOT.	MW-150
PM	SNIPER SYSTEM SHOOT.	MW-150
PM	DEBRIEF/RANGE CARD DEVELOPMENT.	
PM	NOD CLASS.	
TD-15 (M	CMWTC LIVE-FIRE RANGE/S DAY 4)	
AM	SNIPER SYSTEM SHOOT.	MW-150
PM	SNIPER SYSTEM SHOOT.	MW-150
PM	DEBRIEF/RANGE CARD DEVELOPMENT.	
TD-16 (M	CMWTC LIVE-FIRE RANGE/S DAY 5)	
AM	SNIPER SYSTEM SHOOT.	MW-150
PM	SNIPER SYSTEM SHOOT.	MW-150
PM	DEBRIEF.	
PM	MOVING TARGET CLASS. Learners will gain further understanding of engaging moving targets.	
TD-17 (M	CMWTC LIVE-FIRE RANGE/S Day 6)	
AM	SNIPER SYSTEM SHOOT.	MW-150
PM	SNIPER SYSTEM SHOOT.	MW-150
PM	SNIPER SYSTEM MOVING TARGET SHOOT.	MW-150
PM	DEBRIEF.	
TD-18 (M	CMWTC LIVE-FIRE RANGE/S Day 7)	
AM	SNIPER SYSTEM SHOOT.	MW-150
AM-PM	SNIPER SYSTEM MOVING TARGET SHOOT.	MW-150
	SNIPER SYSTEM MOVING TARGET SHOOT.	MW-150
PM	SNIPER SYSTEM NIGHT SHOOT / NIGHT MOVING TARGET SHOOT.	MW-150
PM	DEBRIEF.	
TD-19 (M	CMWTC LIVE-FIRE RANGE/S DAY 8)	
AM	SNIPER SYSTEM SHOOT.	
PM	RANGE CLEAN UP.	

TD-20 (M	TD-20 (MCMWTC LIVE-FIRE RANGE/S DAY 9)					
AM	LOAD VEHICLES.					
AM	MOVEMENT TO LBC.	ADMIN 04				
TD-21						
AM	ARMORY DE-ISSUE.					
AM	END OF COURSE SURVEY.	ADMIN 03				
PM	IIF TURN-IN.	ADMIN 03				
PM	ROPE ROOM DE-ISSUE.	ADMIN 03				
TD-22						
AM	MISSION PLANNING CONSIDERATION AND DEBRIEF.					
AM	PROCUREMENT / T/O CONSIDERATIONS.					
PM	LEARNER DISC WALKTHROUGH.					
TD-23						
AM	GRADUATION PREPARATION/GRADUATION.					
AM	DEPART FOR AIRPORT.					

7. Mandatory Readings: There are no mandatory pre-coursework or readings.

8.Recommended Readings:

Camouflage SOP: A Guide to Reduce Physical Signature Under UAS <u>camouflage sop | Search Results | 2nd Battalion, 5th Marines (2ndbn5thmar.com)</u>

EP EMCON SOP: A Guide to Reduce Technical Signature ep emcon sop | Search Results | 2nd Battalion, 5th Marines (2ndbn5thmar.com)

Mountaineering: The Freedom of the Hills, Paperback – August 25, 2010

The White Sniper: Simo Häyhä, by Tapio Saarelainen-Jan 10, 2020

Modern Advancements in Long Range Shooting:Volume 1-by Bryan Litz

One Shot - One Kill - by Charles W. Sasser, Craig Roberts

		Mounta	in Scout Sniper Course Gear List		
Required Administr	ation		Hygiene Kit		
Item	QTY	Note	Item	QTY	Note
Reporting Orders	1	1010	Tooth Brush	1	1010
Command Screening Checklist	1		Tooth Paste	1	
Basic Sniper Certificate	1		Foot Care Products	1	
Identification Card and ID Tags	1		Razor	1	
	<u> </u>		Shaving Cream	1	
Gear and Equipm	ent		Chapstick	2	
Item	QTY	Note	Sunscreen	1	
Ruck	1	NOLE	Towel	1	
Assault Pack	1		Shower Shoes/Crocs	1	
Sleeping Bag	1		Shower Shoes/Crocs	<u> </u>	
1 0 0	1		Missellenseus ke		
Bivy Sack			Miscellaneous Ite		
ISO Mat	1		Item	QTY	Note
Tarp	1		Note Taking Material	1	
Poncho Liner	1		Map Pens & Paint Pen	1	
Waterproofing Bags	2		Protractor	2	
Ability to Carry 6 Quarts of Water	1		Headlamp	1	
Water Filtration System	1		Knife or Multi-tool	1	
Bump Helmet (if available) or Ballistic Helmet	1		550 Cord	100ft	t
Chest Rig/LBV	1		Camo Face Paint	1	
Pistol Belt	1		Combination Lock	2	
Ghillie Suit/Cobrahood	1		Civilian Attire	2	
Field Attire/Boots	1		Watch	1	
IFAK	1		Whistle	1	
Ear Protection	1		Sewing Kit	1	
Ballistic Rated Eye Protection (Dark & Clear)	1		Linen	1	
Shooting Gloves	1		Batteries (for required gear)	1	
Shooting Support Bag	1		Personal Electronic Device or Thumbdrive	1	For Electronic Publications
Arm Band/QB Sleeve for DOPE and Wind Card	_				
Shooting Databook w/Calculator	1		Weapons and Op	tics	
Sketch Kit w/Range Cards	1		ltem	QTY	Note
			Carbine/5.56 Platform (Current LTI/PFI) & 6 Magazines	1	
Uniform Items			Long Rifle/.308 Platform (Current LTI/PFI)	1	
Item	QTY	Note	Pistol/9mm Platform (Current LTI/PFI), Holster & 3 Magazin		
Utilities - MARPAT Woodland (Field)	2	or Equivalent	Kestrel (1x Per Shooting Pair if from Same Unit)	1	
Utilities - MARPAT Woodland (Garrison)	1	or Equivalent	Slings (Long Rifle & Service Rifle)	1	
GoreTex Top/Bottom - MARPAT Woodland	1	or Equivalent	Shooting Tripod with Hogsaddle or Equivalent	1	
Garrison Cover - MARPAT Woodland	1	or Equivalent	AN/PVS-27MUNS or AN/PVS-22UNS/INOD	1	
Boonie Cover - MARPAT Woodland	1	or Equivalent	Spotting Scope (1x Per Shooting Pair if from Same Unit)	1	
Rank Insignia	2		Range Finder	1	
Boot Socks	6	Recommend Wool	NVG w/SL-3	1	
PT Gear	1		Compass	1	
USMC Boots	1		Cleaning Kit (Long Rifle, Carbine, Pistol, Optic)	1	
PolyPro Top/Bottom, Set	2				
Grid Fleece Top/Bottom, Set	1		Seasonal FFP		
ECW (Happy) Parka	1	MWTC IIF	Item	QTY	Note
ECW (Happy) Trousers	1	MWTC IIF	Cammie Netting/Veg Blanket	1	
ECW (Happy) Booties	1	MWTC IIF	Spider Mesh	1	
ECW Mittens (Outdoor Research)	1	MWTC IIF	White Sheet	1	
· · · · · · · · · · · · · · · · · · ·			White Mesh Laundry Bag	1	
INECK Galler	1				
Neck Gaiter Fleece Cap	1		White Medical Tape	1	
Fleece Cap	1	MWTC IIF		1	
Fleece Cap Finger Gloves, Insulated	1	MWTC IIF	White Medical Tape		
Fleece Cap Finger Gloves, Insulated Contact Gloves, (Non-Cotton)	1 1 2	MWTC IIF	White Medical Tape Full IIF Issue can be drawn at MWTC. GEAR CANNOT E	E DOI	
Fleece Cap Finger Gloves, Insulated	1		White Medical Tape	E DOU	e Chief at 760-932-1458 (or provided



Mountain Medicine (Expeditionary Medicine and Evacuation Course) Program of Study M24KAR1

1. Learning Program Overview: This learning program is designed to educate learners to a high standard on technical and medical considerations

unique to mountainous environments. The course covers the diagnosis, treatment, prevention of high altitude and cold weather-related illnesses and injuries, technical casualty evacuation techniques, movement, bivouac, and leadership skills in in austere environments. The focus of classroom instruction and field mentoring is placed on enhancing the learners' medical knowledge base, clinical competence, self-confidence, and individual resourcefulness.

2. Course Description: This is a 21-day course involving both classroom and field instruction including high-risk training in rappelling, hoist operations, high-angle rescue, and stream crossing techniques. The classroom phase lasts one week and focuses on expanding medical understanding of wilderness and environmental medicine topics as well as providing Pre-Environmental Training (PET) on techniques and procedures necessary for mountainous operations. The field phase covers the next two weeks and focuses on instructing and employing mountainous, compartmentalized, and high-angle casualty rescue and movement techniques as well as applying the medical knowledge from the classroom phase in a field setting. The course culminates with a final field exercise (FEX) where learners will demonstrate the application of knowledge from both the classroom and field phases in various scenarios.

3. Program Outcomes: This learning program produces learner graduates with advanced medical, technical, and field skills necessary to provide medical treatment and casualty evacuation support during combat operations in austere environments and compartmentalized, mountainous terrain.

Phase I: PET. This phase is oriented on expanding medical understanding of wilderness and environmental medicine topics as well as an understanding of mountainous terrain, weather, the environment, leadership challenges, and confidence in cold weather clothing and equipment.

Phase II: Practical Application of Medical & Technical Skills. In this phase, learners will focus on utilizing the medical and technical skills from the previous phase, however, transferred into a field environment. Rope systems and casualty movement techniques are practiced and utilized in an austere, mountainous environment.

Phase III: FEX. Learners will demonstrate knot, SKEDCO Litter System, rope system proficiency, medical assessment, treatment, prolonged patient field care, and casualty evacuation in this environment.

4. Target Population Description: Active Duty and Reserve Navy Line Corpsmen or other Joint or Allied equivalent medical assets operating in support of Ground Combat Elements. Open to Marines who have completed Combat Life Saver/Tactical Combat Casualty Care and other operational non-medical personnel and Medical Staff Officers as course capacity allows.

5. Participation & Assessments: Due to the depth of, and likelihood of exposure to new knowledge and skills throughout this course, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics. Environment, planning, technical, and field training phases of the course are evaluated through assessments (inclusive of performance, written, and verbal methods).

Scope of Evaluation: Written and performance examinations are the two types of evaluations used to determine the event, phase, and course completion in the Mountain Medicine Course. Objectives

and outcomes are measured by a performance examination requiring individuals to perform the task (under conditions similar to those in a combat environment) or by written examination requiring the individual to demonstrate their ability to retain and apply critical knowledge.

Written Examination: A written examination consists of test items assigned to one or more terminal learning objectives or outcomes. The types of test items on a written examination may consist of open-ended, short answer, or multiple-choice questions to demonstrate understanding and application of the topics. Individuals are provided adequate study time prior to the administration of a written examination.

Performance Examination: There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product or end result need be evaluated. Process examination is used to evaluate an outcome when both the end result and the process require assessment. Each of the performance examination checklist (PECL) or Personal Qualification Standard (PQS). Both aim to develop the retention of knowledge and applications across various scenarios and are designed to demonstrate understanding and competence of the outcome. Individuals are provided ample time for practical application prior to the administration of a performance examination.

- PECL-assessed skills include knots, rope anchors, the SKEDCO Litter System, and construction of the Raise-and-Lower System.
- PQS-assessed skills include Operational medical briefs, rappelling, Leader Pick-Off Rescue, and execution of roles during the Raise and Lower system.

Course Completion Criteria: A learner is considered to have completed the learning program when the objectives and or outcomes have been completed to standard. Failure to demonstrate proficiency of an objective or outcome in the individual's first attempt results in the individual receiving additional instruction and an additional opportunity to demonstrate proficiency. Failure in the individual's second attempt results in the referral to an Academic Review Board to determine the follow-on course of action.

6. AARs: Informal reviews by training day, completion of phases, and in-stride/by event are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after Phases II & III are aimed at solidifying proficiency with the learning outcomes and objectives.

7. Schedule: (am/pm format by day with general outcomes).

Red indicates High Risk Training

Phase I:	Phase I: Administrative & PET				
TD-1					
AM	COURSE OVERVIEW, AND ADMINISTRATIVE IN PROCESSING. Gear Issue, Warfighting Load Requirements. Learners understand the limitations and capabilities of their equipment in a mountainous environment.	ADMIN 01,02,03, 04, 05 MW-011			
РМ	CLASSES ON MOUNTAIN LEADERSHIP, SAFETY, AND WEATHER. Learners will understand the PET considerations in this environment for follow on application during the course. Knot familiarization will provide the foundation for later development & applications during Phases II & III.	MW- 001,002, 004			
TD-2		1			

AM	INTRODUCTION TO KNOTS, TCCC/PCC OVERVIEW. Knot familiarization will provide the foundation for later development & applications during Phases II & III. Learners gain increased understanding of medical care in this environment and methods to support casualties & movement.	MW-012
PM	MEDICAL CAPABILITIES, DAMAGE CONTROL, SHOCK, CHEST, AND ABDOMINAL INJURIES. Learners gain increased understanding of medical care in this environment and methods to support casualties & movement.	MW- 200,205, 228,
TD-3		
AM	 PRACTICE KNOTS AND INTRO TO SKEDCO LITTER SYSTEM. Learners will refine knot tying techniques, understand litter system employment, and utilize knots in conjunction with the litter system. ACCLIMATIZATION AND HIGH-ALTITUDE ILLNESSES. Learners understand acclimatization considerations in a mountainous environment and prevention, treatment, and management of high-altitude illnesses. 	MW-214
РМ	ZOONOTIC INJURIES, ENVENOMATION, POISONING. Learners identify and understand the prevention, treatment, and management of various physiological reactions.	MW- 208,225
TD-4		
АМ	INTRODUCTION TO ANCHORS. KNOTS PRACTICE AND SKEDCO LITTER SYSTEM. Learners apply knots into anchors and refine knot and SKEDCO techniques proficiency. HEAT AND HYDRATION, WATER PROCUREMENT CLASS. Learners gain an increased understanding of heat related injuries, treatment, and prevention. Learners understand and apply methods for procuring water from various sources.	MW- 012,213 KNOT-PA SKED-PA
РМ	INTRODUCTION TO ANCHORS. KNOTS PRACTICE AND SKEDCO LITTER SYSTEM. Learners apply knots into anchors and refine knot and SKEDCO techniques proficiency. Hypothermia, Submersion, Freezing and Near Freezing Injuries. Learners gain an increased understanding of cold related injuries, treatment, and prevention.	MW-012, 034, 215, 230 KNOT-PA SKED-PA
TD-5		
AM	ALLERGIES AND ANAPHYLAXIS, HEAD AND NEUROLOGIC INJURIES. Learners identify and understand the prevention, treatment, and management of various physiological reactions.	MW-201, 221,222
РМ	WILDERNESS WOUND MANAGEMENT, LIGHTNING, AND SPLINTING / ORTHOPEDIC INJURIES. Learners will learn how to properly splint and dress wounds in an austere environment as well as considerations for lightning and the injuries associated with it.	MW-234
TD-6		
AM	CAPABILITIES AND LIMITATIONS OF AIRCRAFT IN A HIGH-ALTITUDE ENVIRONMENT. HOIST OPERATIONS. Learners will gain knowledge on Aircraft Capabilities in a high-altitude environment. Learners will conduct hoist operations utilizing air asset at the Expeditionary Airfield.	MW-235
РМ	PRACTICE KNOTS, SKEDCO AND ANCHORS. Learners will continually refine rope management skills.	MW-012 KNOT-PA SKED-PA
TD-7		
AM	HIKE TO LEAVITT TRAINING AREA (LTA). PERFORMANCE EVALUATION ON KNOTS AND SKEDCO LITTER SYSTEM. ~5km movement.	MW-012 EXAM-

		1
		KNOTS ADMIN-06
	ROPE THEORY AND CORDAGE FIBER PROPERTIES, RAISE AND LOWER SYSTEM	
1	INTRODUCTION, HIKE BACK TO LBC. Learners will learn the safety factors, capabilities	MW-012
PM	and limitations of their ropes and cordage as well as constructing systems for movement	MW-RT
TD-8	in the mountains.	
10-0		EXAM-
	Performance evaluation (P2) on knots and SKEDCO litter system. Practice on	KNOTS
AM	anchors and systems.	EXAM-
		SKED
	WRITTEN EXAMINATION REVIEW AND LEARNER SELF-STUDY. Learners have the	EXAM-
PM	opportunity to work with facilitators refining understanding of topics from the test.	WRITTEN
TD-9		1
AM	WRITTEN EXAMINATION. PRACTICE SYSTEMS.	EXAM-
		WRITTEN
PM	PERFORMANCE EVALUATIONS ON SYSTEMS.	EXAM-RT
TD-10		[
	SELF-STUDY AND PRACTICE WITH FACILITATORS.	
AM-PM	SELF-STODT AND PRACTICE WITH FACILITATORS.	
Phase II: I	Field Phase / Practical Application of Medical and Technical Skills	
TD-11		Γ
	HIKE TO LTA. Demonstration and Instruction of how to conduct rappels utilizing the	ADMIN-06
AM	military rappel seat. Ground school instruction for familiarization and practice. Live rappels conducted off the cliff face.	MW-040
	DEMONSTRATION AND INSTRUCTION OF HOW TO CONDUCT DIRECT AND EXTENDED RAPPELS. Ground school instruction for familiarization and practice. Live	MW-040
PM	direct and extended rappels.	EXAM-RT
	P2 performance evaluation on systems.	
TD-12		
	FACILITATOR DEMONSTRATION AND LEARNER PRACTICAL APPLICATION OF	
AM	TWO ROPE RETRIEVABLE RAPPEL.	MW-RT
	DEMONSTRATION AND INSTRUCTION ON HOW TO RAISE AND LOWER A	
	CASUALTY AND ATTENDANTS ON 3RD AND 4TH CLASS TERRAIN. Medical	MW-038
PM	CASEVAC scenario.	10100-030
TD-13		
		1
	PERFORMANCE EVALUATION TWO ROPE RETRIEVABLE. Demonstration and	
	PERFORMANCE EVALUATION TWO ROPE RETRIEVABLE. Demonstration and instruction on how to raise and lower a casualty on 5th class terrain followed by practical	EXAM-RT
AM-PM		EXAM-RT
	instruction on how to raise and lower a casualty on 5th class terrain followed by practical	EXAM-RT MW-224
AM-PM	instruction on how to raise and lower a casualty on 5th class terrain followed by practical application.	
AM-PM PM	instruction on how to raise and lower a casualty on 5th class terrain followed by practical application. PATIENT SCENARIO/ MOVEMENT TO BIG FACE UTILIZING SYSTEMS LEARNED.	MW-224
AM-PM PM TD-14	instruction on how to raise and lower a casualty on 5th class terrain followed by practical application. PATIENT SCENARIO/ MOVEMENT TO BIG FACE UTILIZING SYSTEMS LEARNED. PATIENT MOVEMENT TO LTA FOLLOWED BY P2 TWO ROPE RETRIEVABLE. Class	EXAM-RT MW-224 EXAM-RT MW-125,
AM-PM PM TD-14	instruction on how to raise and lower a casualty on 5th class terrain followed by practical application. PATIENT SCENARIO/ MOVEMENT TO BIG FACE UTILIZING SYSTEMS LEARNED.	MW-224 EXAM-RT

AM-PM	HIKE BACK TO LBC FOLLOWED BY FEX BRIEF.	ADMIN-06
Phase III:	FEX	
TD-16		
AM-PM	SELF-STUDY AND PRACTICE WITH FACILITATORS.	
TD-17		
AM-PM	TRANSPORTATION TO 8K WALL. Long range patient (PT) movement to LZ Bluebird (~5km) followed by Hoist OPS. PCC application.	ADMIN-06 FEX-X
TD-18	·	
AM-PM	ADDITIONAL CASUALTIES RECEIVED ALONG WITH PT MOVEMENT AND HOIST OPS. PCC application.	MW-235 FEX-X
TD-19		
AM-PM	PT CARE AND CASEVAC FROM LZ BLUEBIRD TO LTA. Transportation to LBC.	EXAM-PE FEX-X
TD-20		
AM-PM	GEAR TURN IN FOLLOWED BY END OF COURSE SURVEYS AND GRADUATION PRACTICE.	ADMIN- 07,08,09
TD-21		
AM	SQUAD BAY INSPECTION FOLLOWED BY GRADUATION CEREMONY AND TRANSPORTATION TO RENO AIRPORT.	ADMIN-10

8. Mandatory Readings: TCCC guidelines - Deployed Medicine

http://deployedmedicine.com

9. Recommended Readings:

Deployed Medicine Clinical Practice Guidelines (CPGs)

https://deployedmedicine.allogy.net/learner/collections/29

REQUIRED ADMIN Hygions Kit Reporting Orders 1 Item OTY Note Command Screening Checklist 1 Item OTY Note Gear and Equipment 1 Item 1 Item Gear and Equipment 1 Item 1 Item Stault Pack wife Bing 1 Item Item			М	ountain Medicine Gear List		
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Cold Weather Medicine Course Program of Study M24WAC1



1. Learning Program Overview: This learning program is designed to educate learners to a high standard on technical and medical considerations unique to mountainous and cold weather environments. The course covers the diagnosis, treatment, and prevention of high altitude and cold

weather-related illnesses and injuries, technical casualty evacuation techniques, movement, bivouac, and leadership skills in high altitude, compartmentalized, and snow-covered terrain. The focus of classroom instruction and field mentoring is placed on enhancing the learners' medical knowledge base, clinical competence, self-confidence, and individual resourcefulness.

2. Course Description: This is a 20-day course involving both classroom and field instruction including high-risk training in cold water immersion, hoist operations, and steep earth patient movement techniques. The classroom phase lasts one week and focuses on expanding medical understanding of wilderness and environmental medicine topics with a focus on cold weather injuries and illnesses. The classroom phase also covers Pre-Environmental Training (PET) on field techniques and procedures necessary for cold weather operations. The field phase (two weeks) focuses on instructing, sustainment, movement, casualty care and transport in a high altitude/snow-covered environment as well as applying the medical knowledge from the classroom phase in a field setting. The course culminates with a final field exercise (FEX) where learners will demonstrate the application of knowledge from both the classroom and field phases.

3. Program Outcomes: This learning program produces learner graduates with advanced medical, technical, and field skills necessary to provide medical treatment and casualty evacuation (CASEVAC) support during combat operations in austere, cold weather, snow-covered, and mountainous terrain.

Phase I: PET. This phase is oriented on expanding medical understanding of wilderness and environmental medicine topics as well as an understanding of mountainous terrain, weather, the environment, and confidence in cold weather clothing and equipment.

Phase II: Practical Application of Medical & Technical Skills. In this phase, learners will focus on utilizing the medical and technical skills from the previous phase, however, transferred into a field environment. Rope systems and casualty movement techniques are practiced and utilized in an austere, snow-covered, and mountainous environment.

Phase III: FEX. Learners will demonstrate knot, SKEDCO Litter System, rope system proficiency, medical assessment, treatment, intro to prolonged field care, and CASEVAC in this environment.

4. Target Population Description: Priority: Active Duty and Reserve Navy L03A Corpsmen or other Joint or Allied equivalent medical assets operating in support of Ground Combat Elements. Secondary: Any other NEC Corpsmen, open to Marines who completed Combat Life Saver/Tactical Combat Casualty Care training, and other operational non-medical personnel and Medical Staff Officers as course capacity allows.

5. Participation & Assessments: Due to the depth of exposure to new knowledge and skills throughout this course, participation is required with successful completion of all assessments as they build upon previous topics. Environment, planning, technical, and field training phases of the course are evaluated through written and practical assessments.

Scope of Evaluation: There are two types of evaluation used to determine the event, phase, and course completion in the Cold Weather Medicine Course, written examinations, and performance

examinations (product and process examinations). Objectives and outcomes are measured by performance examination requiring individuals to perform the task (under conditions similar to those in a combat environment) or by written examination requiring the individual to demonstrate their ability to retain and apply critical knowledge. Product examination is used to assess an objective or outcome when only the final product or end-result need be evaluated. Process examination is used to evaluate an objective or outcome when both the end-result and the process require assessment.

Written Examination: A written examination consists of test items assigned to one or more terminal learning objectives or outcomes. The types of test items on a written examination may consist of open-ended, short answer, or multiple-choice questions to demonstrate understanding and application of the topics. Individuals are provided adequate study time prior to the administration of a written examination.

Performance Examination: Each of the performance examinations assess competency of performance objectives through the use of a Performance Examination Checklist (PECL) or Personal Qualification Standard (PQS). Both aim to develop the retention of knowledge and applications across various scenarios and are designed to demonstrate understanding and competence of the outcome. Individuals are provided ample time for practical application prior to the administration of a performance examination.

- PECL-assessed skills include Knots, rope anchors, SKEDCO Litter System, and construction of the Raise-and-Lower System.
- PQS-assessed skills include Operational medical briefs, avalanche rescue, and patient packaging.

6. AARs: Informal reviews by training day, completion of phases, and in-stride/by event are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after Phases II & III are aimed at solidifying proficiency with the learning outcomes and objectives.

7. Schedule: (am/pm format by day with general outcomes).

Red indicates High Risk Training

Phase I:	Administrative & PET	
TD-1		
AM	GEAR ISSUE. Course Overview, and Administrative in processing.	ADMIN- 01,02,03, 04,05
PM	PERSONAL COLD WEATHER CLOTHING, WARFIGHTING LOAD REQUIREMENTS, INTRO TO KNOTS. Learners understand the limitations and capabilities of their equipment in a mountainous, cold weather environment. Knot familiarization will provide the foundation for later development & applications during Phases II & III.	MW- 010,011, 012
TD-2		•
AM	CLASSES ON MOUNTAIN LEADERSHIP, SAFETY, AND WEATHER, PRACTICE KNOTS. Learners will understand the PET considerations in this environment for follow on application during the course.	MW-001, 003,004, 012

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РМ	ACCLIMATIZATION, HIGH ALTITUDE ILLNESSES. Learners understand acclimatization considerations in a mountainous environment and prevention, treatment, and management of high-altitude illnesses.	MW-214
TD-3		
	KNOTS PRACTICE, AND INTRODUCTION TO SKEDCO LITTER SYSTEM. Learners will refine knot-tying techniques, understand litter system employment, and utilize knots in conjunction with the litter system.	KNOT-PA MW-
AM	TCCC OVERVIEW, WILDERNESS WOUND MANAGEMENT, SHOCK, WHOLE BLOOD TRANSFUSIONS. Learners will gain increased understanding of medical care in this environment and methods to support casualties & movement.	012,228
PM	ORTHOPEDIC, CHEST, ABDOMINAL, AND NEUROLOGIC INJURIES. Learners will gain an increased understanding of human anatomy and competence in assessing and treating traumatic injuries.	MW-200, 205, 209, 222
TD-4		
AM	 INTRODUCTION TO ANCHORS AND RAISE AND LOWER SYSTEM. Practice knots and SKEDCO litter system Learners apply knots into anchors and refine knot and SKEDCO techniques proficiency. HYPOTHERMIA, SUBMERSION, FREEZING AND NEAR FREEZING INJURIES. Learners will gain an increased understanding of cold weather and cold water related injuries, treatment, and prevention. 	MW-038, 210, 215, 230
PM	HEAT AND HYDRATION. Learners gain an increased understanding of heat related injuries, treatment, and prevention.	MW-213
TD-5		
AM	HYPOTHERMIA LAB. Learners experience induced hypothermia and conduct active rewarming techniques with issued cold weather clothing and equipment.	MW-215
PM	MARINE CORPS COLD WEATHER INFANTRY KIT (MCCWIK), SMALL UNIT EXPEDITIONARY STOVE (SUES), EXTREME COLD WEATHER (4-MAN) TENT OPERATIONAL CHECK, PRACTICE KNOTS, ANCHORS, RAISE AND LOWER SYSTEM AND SKEDCO. Continued practice of knots, anchors, raise and lower, and SKEDCO litter to prepare for field phase.	MW-012, 015,016, 068 SKED-PA
TD-6		·
AM	 PRACTICE KNOTS, ANCHORS, RAISE AND LOWER SYSTEM AND SKEDCO. Continued practice of knots, anchors, raise and lower, and SKEDCO litter to prepare for field phase. POISONING, ALLERGIES AND ANAPHYLAXIS. Learners identify and understand the prevention, treatment, and management of various physiological reactions. Reflection on previous day. 	MW-012, 038,201, 225
РМ	WATER PROCUREMENT AND TREATMENT, TRIAGE METHODS AND FUNDAMENTALS, INTRODUCTION TO SURVIVAL. Learners will gain an increased knowledge in water procurement and treatment, patient triage, survival techniques and equipment.	MW-125 130,217
TD-7		

AM	PERFORMANCE EVALUATION ON KNOTS, AND SKEDCO LITTER.	EXAM-RT, EXAM- SKED
PM	PERFORMANCE EVALUATION ON ANCHORS AND RAISE AND LOWER SYSTEM.	EXAM-RT
TD-8		
AM	PERFORMANCE EVALUATION (P2) ON KNOTS, SKEDCO LITTER, ANCHORS AND RAISE AND LOWER SYSTEM.	EXAM-RT EXAM- SKED
PM	TRAVEL IN AVALANCHE TERRAIN AND RESCUE TECHNIQUES, BEACON FAMILIARIZATION. Learners will gain an increased knowledge in identifying, maneuvering and rescue techniques in avalanche terrain.	MW-099
TD-9		
AM	TUCKER TRANSIT TO LEAVITT LAKE. Travel in avalanche terrain, avalanche rescue and beacon check practical application.	ADMIN-06
PM	MOUNTAIN CASEVAC CLASS AND PRACTICAL APPLICATION AND TUCKER TRANSIT TO LOWER BASE.	MW-031
TD-10		
AM-PM	SELF-STUDY AND PRACTICE WITH FACILITATORS.	
Phase II:	Practical Application of Medical and Technical Skills	
TD-11		
	CAPABILITIES AND LIMITATIONS OF AIRCRAFT IN A HIGH-ALTITUDE	
AM	ENVIRONMENT. HOIST OPERATIONS. Learners will gain knowledge on Aircraft Capabilities in a high-altitude environment. Learners will conduct hoist operations utilizing air asset at the Expeditionary Airfield.	MW-235
PM	WRITTEN EXAM.	EXAM- WRITTEN
TD-12		
AM	TUCKER TRANSIT TO TRAINING AREAS. Military snowshoe movement to objective.	ADMIN-06
PM	TRACK PLAN/ ESTABLISH BIVOUAC SITE CLASS AND PRACTICAL APPLICATION. Learners will learn and apply principles of track plan establishment and bivouac considerations in a snow-covered environment.	MW-063
TD-13		
AM	SNOWSHOE TOUR FOLLOWED BY PRACTICAL APPLICATION OF AVALANCHE RESCUE, EMPLOY HYPOTHERMIA WRAPS AND WARMING STATION.	MW-018, 099
PM	RAISE AND LOWERS SYSTEM ON 3RD & 4TH CLASS TERRAIN FOLLOWED BY PATIENT MOVEMENT TO BIVOUAC SITE.	MW-038
TD-14		
AM	PYROTECHNICS CLASS. Learners will gain knowledge and familiarization on pyrotechnics utilized for marking. Class on survival considerations in this environment.	MW-125
PM	GEAR CONFIDENCE EXERCISE. Formerly known as 'survival night' this exercise encompasses Learners using their cold weather clothing and issued equipment to construct field expedient shelters.	MW-125

TD-15

TD-15		
AM	GEAR CONFIDENCE EXERCISE DEBRIEF. Tucker transit back to lower base camp.	MW-125 ADMIN-06
PM	FEX BRIEF AND PREP.	
TD-16		
AM-PM	SELF-STUDY AND PRACTICE WITH FACILITATORS.	
Phase III:	FEX	
TD-17		
AM-PM	TUCKER TO TRAINING AREAS AND SNOWSHOE MOVEMENT TO OBJECTIVE.Patient Scenarios.Learners will demonstrate competency in patient assessment,treatment, and management in a cold weather environment.Hoist Operations.Learners will conduct hoist operations utilizing designated air asset.	FEX-X EXAM-PE MW-235
TD-18		
AM-PM	PATIENT SCENARIOS. Learners will demonstrate competency in patient assessment, treatment, and management in a cold weather environment. Tucker transit to Lower Base Camp.	FEX-X EXAM-PE
TD-19		
AM	GEAR TURN-IN, END OF COURSE SURVEYS AND COURSE DEBRIEF.	ADMIN- 07,08,09
PM	GRADUATION PRACTICE.	ADMIN-10
TD-20		
AM	GRADUATION CEREMONY.	ADMIN-10
		1

8. Mandatory Readings: TCCC guidelines - Deployed Medicine

http://deployedmedicine.com

9. Recommended Readings

Deployed Medicine Clinical Practice Guidelines (CPGs)

https://deployedmedicine.allogy.net/learner/collections/29

		С	old Weather Medicine Gear List		
REQUIRED ADMIN			Hygiene Kit		1
Reporting Orders	1		Item	QTY	Note
Command Screening Checklist	1		Tooth Brush	1	
Identification Card	1		Tooth Paste	1	
			Floss	1	
			Razor w/Extra Blades	1	
Gear and Equipment			Shaving Cream	1	
ltem	QTY	/ Note	Chapstick	2	
USMC Pack w/WP liner	1		Sunscreen	1	
Assault Pack w/WP liner	1		Towel	2	
Sleeping Bag - Tan	1		Shower Shoes	1	
Sleeping Bag - Black	1				
Bivy Sack	1		MISC		
ISO Mat	1	-	Item	QTY	Note
-	1			1	
MARPAT Tarp			Notebook		For the Classroom
Poncho Liner	1		Write-in-the-rain	1	For The Field
Canteen/Nalgene	2		Pen	2	11/2 (
Canteen/Nalgene Carrier	2	-	Pencil	2	Winter Courses
Canteen/Nalgene Cup	1		Highlighter	1	
Hydration Bladder - 3Liter	N/A		Map Pen Set w/Eraser Pen	1	
Hydration Carrier	N/A		Protractor	1	
IFAK	1		Combination Lock	2	
Chest Rig/LBV/Belt with Mag pouches	1	Optional	Propper Civilian Attire	1	
			Eye Protection w/Clear and Dark Lenses	1	
Uniform Items	_		Red Lens Flashlight or Headlamp W/ Batteries	1	
Item	QTY	Note	Knife or Multi-tool	1	
Utilities - MARPAT Woodland	2	No FROG	550 Cord	50ft	
GoreTex Top/Bottom - MARPAT Woodland	1		Reflective Belt	1	
Garrison Cover - MARPAT Woodland	1		Laundry Bag	1	
Boonie Cover - MARPAT Woodland	1		Personal Electronic Devices (Laptop, Tablet, Cell Phone)		For Electronic Publications
Skivvie Shirt	3				
Underwear	6		Weapons and Optic	s	
Socks, Brown, Pair	6	Recommend Wool	Item	QTY	Note
Socks, White, Pair	1		Service Weapon w/ 6x Magazines	N/A	
USMC Boots	1		Optics (Optional)	N/A	
PolyPro Top/Bottom, Set	2	MCMWTC IIF	NVG	N/A	
Grid Fleece Top/Bottom, Set	1	MCMWTC IIF	Kevlar w/NVG Mount	N/A	
ECW (Happy) Parka	1	MCMWTC IIF	Compass	N/A	
ECW (Happy) Trousers	1	MCMWTC IIF			
ECW (Happy) Booties	1	MCMWTC IIF	Notes: MCMWTC IIF will only supply items if you have no	t been is	sued from your parent unit
ECW Mittens (Outdoor Research)	1	MCMWTC IIF			, ,
Neck Gaiter	1	MCMWTC IIF			
Fleece Cap	1	MCMWTC IIF			
Finger Gloves, Insulated	1	MCMWTC IIF			
Contact Gloves, (Non-Cotton)	2	MCMWTC IIF			
3/4 Gaiters (Outdoor Research)	1	MCMWTC IIF			
Balaclava	1	MCMWTC IIF			
USMC Running Suit/Sweats	1				
PT Shorts	1	ł			
PT Shoes	1	1			
	1	1			



Horsemanship and Animal Packing Program of Study M24MMM1

1. Learning Program Overview: Horsemanship and Animal Packing is a 16-day learning program designed to provide units with a skilled core of personnel capable of working with indigenous personnel operating with riding

and/or packing animals in a mountainous environment. This Learning Program covers the following warfighting functions, maneuver, logistics, and force protection. Maneuver will cover horsemanship and riding techniques; packing and transporting crew serve weapons, equipment and supplies will enable sustainment/logistics; transportation of wounded personnel will enable force protection. Learners will conduct multiple pack string and mounted/horse-borne operations covering over 115 kilometers.

2. Course Description: This course is designed to train small units in operating with indigenous personnel who ride and/or pack animals. This includes riding horses and packing animals for supporting combat operations (infiltration, exfiltration, CASEVAC, and moving weapons systems and equipment). The course subjects include animal care, anatomy of working animals, animal packing techniques, casualty evacuation techniques, animal first aid, bivouac/harbor site considerations, and horsemanship techniques.

3. Program Outcomes: This learning program is oriented on facilitating for the learner (SOF population is the target audience) to become more effective as small units and as leaders in a mountainous environment. Learners are taught the necessary skills to enable them to ride horses, load pack animals, and maintain animals in support of military applications.

Phase I: Pre-Environmental Training. Pre-Environmental Training (PET) will provide learners with an understanding of mountainous terrain, weather, safety, leadership challenges, health, and the environment; learners will understand materiel, equipment, and techniques and procedures for mitigating impacts to individuals and units in this environment.

Phase II: Pack Animal Familiarization. In this phase, learners will be introduced to the art and theory of animal packing, pack animal handling and husbandry, conformation, anatomy, animal first aid, and equipment.

Phase III: Packing. In this phase learners will be shown the basic skills of how to construct varying types of loads to transport designated equipment.

Phase IV: Horsemanship. In this phase, learners learn the fundamentals of horsemanship to conduct mounted/horse-borne operations.

Phase V: Planning & Employment. Learners demonstrate knowledge of and the abilities to plan and conduct mounted/horse-borne operations, animal procurement and inspection considerations, advanced packing concepts for alternative or field expedient means to construct loads, and casualty evacuation during field exercises.

4. Participation & Assessments: Due to the depth of and likelihood of exposure to new knowledge and skills throughout this course, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics. Environment, planning, technical, and field training phases of the course are evaluated through assessments (inclusive of performance, written, and verbal methods).

Scope of Evaluation: Written and performance examinations are the two types of evaluations used to determine the event, phase, and course completion in Horsemanship and Animal Packing. Objectives and outcomes are measured by a performance examination requiring individuals to perform the task (under conditions similar to those in a combat environment) or by written examination requiring the individual to demonstrate their ability to retain and apply critical knowledge.

Performance Examination. There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product or end result need be evaluated. Process examination is used to evaluate an outcome when both the end result and the process require assessment. This type of examination will be assessed using a performance evaluation checklist, teach back, or behaviorally anchored rating scale designed to demonstrate proficiency of the outcome. Individuals are provided ample time for practical application prior to being administered a performance examination.

Written Examination. The proficiency of outcomes is identified through the results of a written examination. A written examination consists of test items assigned to one or more outcomes. The types of test items on a written examination may be open ended questions or multiple choice. Eighty percent of the test items must be answered correctly in order to demonstrate proficiency on the test. In the event that an individual does not demonstrate proficiency on a written examination, they will be retested against a different version of the original examination. Individuals are provided adequate time for study prior to being administered a written examination.

Course Completion Criteria: A learner is considered to have completed the course when the objectives and or outcomes have been completed to standard. Failure to demonstrate proficiency of an objective or outcome in the individual's first attempt results in the individual receiving additional instruction and an additional opportunity to demonstrate proficiency. Failure to demonstrate proficiency of an objective or outcome in the individual's second attempt results in the individual being referred to an Academic Review Board to determine the follow-on course of action.

5. AARs: Informal reviews by training day, completion of phases, and in-stride/by event are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after movements and during the final exercise (FEX) are aimed at solidifying proficiency with the learning outcomes and objectives.

Phases I	Phases I / II: PET / Pack Animal Familiarization				
TD-1					
АМ	INTRODUCTION TO HORSEMANSHIP. Learners are introduced to the history and modern use of equines in military operations.	MW-274			
PM	MOUNTAIN HEALTH AWARENESS. Learners understand impacts of the environment.	MW-002			
РМ	ANATOMY AND CONFORMATION. Understand and identify physical characteristics of healthy and suitable animals for animal packing and mobility.	MW-250			
PM	ANIMAL FIRST AID. Understand how to diagnose common injuries/illness and treat them.	MW-251			

6. Schedule: (am/pm format by day with associated general outcomes).

PM	ORGANIZATION OF A PACKSTRING. Understand key billets and responsibilities.	MW-271
PM	STABLES ROUTINE. Learners are introduced to processes for stowing gear and feeding the animals. Learners will be responsible for this daily effort starting on T-3 under facilitator supervision.	MW-272
Phase II	: Packing	
TD-2		1
AM	GEAR PREP (SUPPLY DRAW).	ADMIN- 05
AM	PREPARE ANIMALS FOR EMPLOYMENT. Learners will learn and understand the daily process for catching, grooming, and handling the animals. Learners will be responsible for this daily effort starting on T-3 under facilitator supervision.	MW-272
AM	TACK AND EQUIPMENT (SADDLING). Learners will be able to identify key components of equipment and understand broader application thereof. Demonstration and practical application of saddling an animal.	MW-273
AM	BUILDING A LOAD (MANTEE). Lesson and practical application on the Mantee Load.	MW-26
PM	HITCHES (BASKET). Demonstration of and practical application of the four types of hitches.	MW-26
PM	HITCHES (BARREL). Demonstration of and practical application of the four types of hitches.	MW-26
PM	STABLES ROUTINE.	MW-27
TD-3		<u>.</u>
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-27
AM	TACK AND EQUIPMENT (SADDLING/MANTEE). Demonstration and practical application (MANTEE) time prior to exam.	MW-27
AM	HITCHES (BASKET). Practical application prior to exam	MW-26
PM	PACKING AND SADDLING EXAM (SADDLING/MANTEE/BASKET).	HAPC XP2
PM	HITCHES (BOX). Demonstration of and practical application of the four types of hitches.	MW-26
PM	MISSION PLANNING CONSIDERATIONS. Learners discuss mission specific planning considerations involving use of the equine.	
PM	NEGOTIATE OBSTACLES. Demonstration and practical application movement for negotiating obstacles.	HAPC 09
PM	STABLES ROUTINE.	MW-27
TD-4		
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-27
AM	HITCHES (BARREL). Demonstration of and practical application of the four types of hitches.	MW-26

AM	PACKING AND HITCHES EXAM (BARREL & BOX).	HAPC- XP2
PM	HORSE-BORNE FORMATIONS/IA DRILLS. Learners will learn and discuss formations and immediate drills whilst mounted.	
PM	EQUINE NUTRITION. Learners understand nutritional requirements to promote herd health.	MW-257
PM	PATROL BASE CONSIDERATIONS. Learners will learn and discuss patrol base site selection, organization, and considerations.	MW-258
PM	STABLES ROUTINE.	MW-272
Phase IV:	Horsemanship	
TD-5		
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
АМ	TACK AND EQUIPMENT (SADDLING AND BRIDLING). Learners learn and demonstrate how to saddle and bridle equines.	MW-273
AM-PM	BASIC HORSEMANSHIP. Learners learn fundamentals of horsemanship (groundwork, mount & dismount, control, rein manipulation)	MW-253
PM	STABLES ROUTINE.	MW-272
TD-6		
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
AM-PM	FEX PRAC APP. Learners planned and led ride (with facilitator supervision) ~14km.	HAPC- FEX
AM-PM	BASIC HORSEMANSHIP . Practical application, learner led rides within training areas ~14km.	MW-253
PM	GROUNDWORK. Learners gain increased understanding of controlling the horse and work with facilitators for refinement of techniques.	MW-253
PM	STABLES ROUTINE.	MW-272
TD-7		
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
AM-PM	FEX PRAC APP. Learners planned and led ride (with facilitator supervision) ~14km.	HAPC- FEX
РМ	PRE-PURCHASE EXAMS/ VET CHECKS. Demonstration of a pre-purchase exam, considerations, and increased awareness for animals' suitability of use.	MW-250
PM	STABLES ROUTINE.	MW-272
TD-8		
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272

AM-PM	FEX PRAC APP. Learner planned and led ride (with facilitator supervision) ~26km.	HAPC- FEX
PM	STABLES ROUTINE.	MW-272
	Planning & Employment	
TD-9		10000
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
AM	BASIC HORSEMANSHIP. Arena refinements of techniques.	MW-253
PM	FEX PRAC APP. Practical application of previously learned packing techniques in the arena.	HAPC- FEX
PM	STABLES ROUTINE.	MW-272
TD-10		•
AM	STABLES ROUTINE.	MW-272
PM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
PM	NATIVE RIDING EQUIPMENT/SPECIAL EQUIPMENT. Demonstration of native riding equipment examples and field expedient saddle construction.	MW-273
РМ	ADVANCED HORSEMANSHIP / NIGHT RIDE. Learners conduct night, mounted operations.	HAPC- FEX
TD-11		•
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
PM	GEAR PREP.	ADMIN- 05
AM	RIDING EXAM.	HAPC- XP3
PM	CASEVAC. Demonstration and practical application for CASEVAC methods utilizing equines.	MW-268
PM	STABLES ROUTINE.	MW-272
TD-12		
AM	FEX EXAM. Learner infiltration.	HAPC- XP1
AM-PM	FEX EXAM. Animal procurement and movement; bivouac routine.	HAPC- XP1
TD-13		
AM-PM	FEX EXAM. Movement to objective and bivouac routine.	HAPC- XP1

TD-14		
AM-PM	FEX EXAM. Exfiltration and debrief.	HAPC- XP1
РМ	STABLES ROUTINE.	ADMIN- 06
TD-15		
AM-PM	MAINTENANCE, EQUIPMENT RECOVERY, ADMINISTRATION.	ADMIN- 05, 07, 08
TD-16		
AM	ADMINISTRATION & COURSE GRADUATION.	

7. Mandatory Readings: There are no mandatory pre-coursework or readings, however section 8 of the program of study details recommended MarineNet videos and courses.

8. Recommended Readings:

MCMWTC Pre-Environmental Training Horsemanship & Animal Packing, MARINENET Facilitator Led Course (Learners contact course staff to register for PET in MARINENET).

Horsemanship & Animal Packing Coursebook (available in above course).

ATP 3-18.13, Special Forces Use of Pack Animals, 2014, <u>ATP 3-18.13 (army.mil)</u> Limited Distributed, CAC required.

Horse Soldiers: The Extraordinary Story of a Band of US Soldiers Who Rode to Victory in Afghanistan, Doug Stanton, 2011.

Note or equivalent or equivalent optional optional optional optional	Hygier Item Tooth Brush Tooth Paste Floss Razor w/Extra Blades Shaving Cream Chapstick Sunscreen Towel Shower Shoes Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	QTY 1 1 1 1 1 2 1 1 1 1 1 1 1	
or equivalent or equivalent optional optional optional	Item Tooth Brush Tooth Paste Floss Razor w/Extra Blades Shaving Cream Chapstick Sunscreen Towel Shower Shoes Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	QTY 1 1 1 1 1 2 1 1 1 2 1 1 5C QTY 1 1 1 1 1 1 1 1 1 1 1 1 1	Note
or equivalent or equivalent optional optional optional	Tooth Brush Tooth Paste Floss Razor w/Extra Blades Shaving Cream Chapstick Sunscreen Towel Shower Shoes	1 1 1 1 1 2 1 1 1 5C 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Note
or equivalent or equivalent optional optional optional	Tooth Paste Floss Razor w/Extra Blades Shaving Cream Chapstick Sunscreen Towel Shower Shoes	1 1 1 2 1 1 1 5C 2 1 1 5C 2 1 1 1 1 1 1 1 1 1 1	Note
or equivalent or equivalent optional optional optional	Floss Razor w/Extra Blades Shaving Cream Chapstick Sunscreen Towel Shower Shoes MIS Item Notebook Pen Pencil Highlighter Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 2 1 1 1 5C 2 5C 2 1 1 1 1 1 1 1 1 1	Note
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or equivalent or equivalent optional optional optional	Shaving Cream Chapstick Sunscreen Towel Shower Shoes MIS Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	2 1 1 5C 2 1 5C 1 1 1 1 1 1 1 1	Note
or equivalent or equivalent optional optional optional	Chapstick Sunscreen Towel Shower Shoes MIS Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	2 1 1 5C 2 1 5C 1 1 1 1 1 1 1 1	Note
or equivalent optional optional optional	Sunscreen Towel Shower Shoes Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 5C 0 1 1 1 1 1 1 1 1	Note
optional optional optional	Towel Shower Shoes Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	3C QTY 1 1 1 1 1 1 1	Note
optional optional optional	Shower Shoes Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	3C QTY 1 1 1 1 1 1 1	Note
optional optional optional	MIS Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	QTY 1 1 1 1 1 1 1 1	
optional optional optional	Item Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	QTY 1 1 1 1 1 1 1 1	
optional optional optional	Notebook Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 1 1 1 1 1	
optional optional optional	Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 1 1 1 1 1	
optional optional	Pen Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 1 1	
optional optional	Pencil Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 1 1	
optional optional	Highlighter Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1 1 1	
optional	Map Pen Set w/Eraser Pen Protractor Combination Lock Proper Civilian Attire	1	
optional	Protractor Combination Lock Proper Civilian Attire		
	Proper Civilian Attire	2	
		3	for use during liberty hours
	Eye Protection w/Clear and Dark Lenses	1	
	Red Lens Flashlight or Headlamp W/ Batteries	1	
Note	Knife or Multi-tool	1	
or equivalent	550 Cord	N/A	
or equivalent	Reflective Belt	1	
or equivalent	Sheets, Blanket, Pillow w/ case	N/A	
or equivalent	Laundry Bag	1	
	Personal Electronic Devices (Laptop, Tablet, C	ell Phone)	For Electronic Publications
Recommend Wool	Weapons a	ind Optics	
or equivalent	Item	QTY	Note
optional	Service Weapon w/ Sling	1	If participating in MTX
	Optics (Optional)	1	
optional	NVG	1	
optional	Bump Helmet w/ nvg mount	1	bump helmet req for riding
optional	Comm equipment (HF capable reccomended)	х	Team internal/ tm-TOC
optional	Mission Planning Kit	х	FEX Planning
optional	MG's, Dummy Rockets, Sniper Rifles	х	optional
	Compass	1	
optional			
optional	unit IIF. A letter of transmittal should be bro	ught with your v	veapon and NVG.
optional			
	optional optional optional optional optional optional	optional Bump Helmet w/ nvg mount optional Comm equipment (HF capable reccomended) optional Mission Planning Kit optional MG's, Dummy Rockets, Sniper Rifles comptional Compass optional Notes: MWTC IIF will only supply items if yo optional unit IIF. A letter of transmittal should be bro	optional Bump Helmet w/ nvg mount 1 optional Comm equipment (HF capable reccomended) x optional Mission Planning Kit x MG's, Dummy Rockets, Sniper Rifles x Compass 1 optional Notes: MWTC IIF will only supply items if you have not beer unit IIF. A letter of transmittal should be brought with your v

Animal Packing Program of Study M24MN61



1. Learning Program Overview: Animal Packing is a 16-day learning program designed to provide MAGTF units with a core of Marines who understand and can extend their units culminating point in a mountainous environment by covering the following warfighting functions; maneuver, logistics, force

protection, and command and control. Maneuver is oriented on transporting crew served weapons in support of combat operations. Transportation of supplies and equipment will enable sustainment/logistics efforts. The command-and-control warfighting function is focused on planning, organizing, conducting animal packing, and/or providing advice to senior commanders and staffs. Force protection is done through casualty evacuation techniques, animal first aid, and bivouac considerations while employing pack animals. Over the 16 days, learners will move over 70 kilometers while employing a pack string.

2. Course Description: This course is designed to aid Marine Corps units in alternative methods for transporting crew served weapons, equipment and supplies, and wounded personnel to and from areas inaccessible to mechanized and air mobile transportation. The course subjects include introduction to animal packing, planning, anatomy of pack animals, animal packing techniques, casualty evacuation techniques, animal first aid, and bivouac considerations.

3. Program Outcomes: This learning program is designed to teach learners the necessary skills to enable them to plan, organize, and conduct animal packing, and provide advice to commanders and staffs to enable operations in a mountainous environment.

Phase I: Pre-Environmental Training. Pre-Environmental Training (PET) will provide learners with an understanding of mountainous terrain, weather, safety, leadership challenges, health, and the environment; learners will understand materiel, equipment, and techniques and procedures for mitigating impacts to individuals and units in this environment.

Phase II: Pack Animal Familiarization. In this phase, learners will be introduced to the art and theory of animal packing, pack animal handling and husbandry, conformation, anatomy, animal first aid, and equipment.

Phase III: Packing. In this phase, learners will be shown the basic skills of how to construct varying types of loads to transport designated equipment.

Phase IV: Planning & Employment. Learners demonstrate knowledge of and the abilities to advise supported units, plan and conduct pack string support operations, advanced packing concepts for alternative or field expedient means to construct loads, and casualty evacuation during field exercises. During the final exercise learners will lead and conduct multiple pack string operations and move over 60 kilometers.

4. Participation & Assessments: Due to the depth of, and likelihood of exposure to new knowledge and skills throughout this course, participation is required with successful completion of all successive assessments as they build upon and touch back through to previous topics. Environment, planning, technical, and field training phases of the course are evaluated through assessments (inclusive of performance, written, and verbal methods).

Scope of Evaluation: Written and performance examinations are the two types of evaluations used to determine the event, phase, and course completion in Animal Packing. Objectives and outcomes are measured by a performance examination requiring individuals to perform the task

(under conditions similar to those in a combat environment) or by written examination requiring the individual to demonstrate their ability to retain and apply critical knowledge.

Performance Examination. There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product or end result need be evaluated. Process examination is used to evaluate an outcome when both the end result and the process require assessment. This type of examination will be assessed using a performance evaluation checklist, teach back, or behaviorally anchored rating scale designed to demonstrate proficiency of the outcome. Individuals are provided ample time for practical application prior to being administered a performance examination.

Written Examination. The proficiency of outcomes is identified through the results of a written examination. A written examination consists of test items assigned to one or more outcomes. The types of test items on a written examination may be open ended questions or multiple choice. Eighty percent of the test items must be answered correctly in order to demonstrate proficiency on the test. In the event that an individual does not demonstrate proficiency on a written examination, they will be retested against a different version of the original examination. Individuals are provided adequate time for study prior to being administered a written examination.

Course Completion Criteria: A learner is considered to have completed the course when the objectives and/or outcomes have been completed to standard. Failure to demonstrate proficiency of an objective or outcome in the individual's first attempt results in the individual receiving additional instruction and an additional opportunity to demonstrate proficiency. Failure to demonstrate proficiency of an objective or outcome in the individual's second attempt results in the individual being referred to an Academic Review Board to determine the follow-on course of action.

5. AARs: Informal reviews by training day, completion of phases, and in-stride/by event are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after movements and during the final exercise (FEX) are aimed at solidifying proficiency with the learning outcomes and objectives.

6. Schedule: (am/pm format by day with general outcomes)

Phase I:	PET	
TD-1		
AM	SNCOIC WELCOME ABOARD/ SAFETY BRIEF.	ADMIN 01/02
AM	CO'S WELCOME ABOARD BRIEF.	ADMIN 01/02
AM	S1 COLLECT ORDERS.	ADMIN 03
AM	MOUNTAIN SAFETY. Desired outcome is learners establish a baseline proficiency and understanding of these principles in a mountainous environment.	MW- 001

		MW-			
AM	MOUNTAIN HEALTH AWARENESS. Learners understand impacts of the environment.	002			
РМ	INTRODUCTION TO ANIMAL PACKING. Learners are introduced to the history and modern use of pack animal in military operations.	MW-274			
РМ	ANATOMY AND CONFORMATION. Understand and identify the physical characteristics of healthy and suitable animals for animal packing.				
РМ	ANIMAL FIRST AID. Understand how to diagnose common injuries/illness and treat them.				
РМ	ORGANIZATION OF A PACKSTRING. Understand key billets and responsibilities.				
РМ	PERSONAL COLD WEATHER CLOTHING. Gear confidence and understanding.				
PM	MOUNTAIN WARFIGHTING LOAD REQUIREMENTS. Required gear for operations in mountainous and cold weather operating environments.	MW-011			
PM	INTRODUCTION TO TACK AND EQUIPMENT. Learners will be able to identify key components of equipment and understand broader application thereof.	MW-273			
Phase II:	Pack Animal Familiarization				
TD-2					
AM	PREPARE ANIMALS FOR EMPLOYMENT. Learners will understand the daily process for catching, grooming, and handling the animals. Learners will be responsible for this daily effort starting on T-3 under facilitator supervision.	MW-272			
AM	TACK AND EQUIPMENT (SADDLING). Lesson and practical application of saddling an animal.	MW-273			
РМ	BUILDING A LOAD (MANTEE LOAD). Lesson and practical application on the Mantee Load.	MW-260			
РМ	STABLES ROUTINE. Learners are introduced to processes for stowing gear and feeding the animals. Learners will be responsible for this daily effort starting on T-3 under facilitator supervision.				
Phase III	: Packing	-			
TD-3		-			
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272			
AM	TACK AND EQUIPMENT (SADDLING). Practical application time prior to exam.	MW-273			
AM	BUILDING A LOAD (MANTEE). Practical application time prior to exam.	MW-260			
AM-PM	BUILDING A LOAD AND <u>SADDLING EXAM (</u> SADDLING/MANTEE).	ANPK- XP			
PM	HITCHES (BASKET). Demonstration of and practical application of the four types of hitches.	MW-263			
РМ	STABLES ROUTINE.	MW-272			
TD-4					
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272			

AM	HITCHES (BASKET). Practical application time prior to exam.	MW-263			
AM	HITCHES EXAM (BASKET).	ANPK- XP			
PM	HITCHES (BARREL). Demonstration of and practical application of the four types of hitches.	MW-263			
PM	STABLES ROUTINE.	MW-272			
TD-5					
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272			
AM	HITCHES (BARREL). Practical application time prior to exam.	MW-263			
AM	HITCHES EXAM (BARREL).				
AM	HITCHES (BOX). Demonstration of and practical application of the four types of hitches.	MW-263			
PM	STABLES ROUTINE.	MW-272			
TD-6					
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272			
AM	HITCHES (BOX). Practical application time prior to exam.	MW-263			
AM	HITCHES EXAM (BOX).				
РМ	NEGOTIATING OBSTACLES. Demonstration and practical application movement for negotiating obstacles.	MW-270			
PM	STABLES ROUTINE.	MW-272			
TD-7					
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272			
AM	CASEVAC WITH PACK ANIMALS. Class on CASEVAC methods.	MW-253			
РМ	CASEVAC WITH PACK ANIMALS. Practical application on CASEVAC methods	MW-253			
PM	NEGOTIATING OBSTACLES MOVEMENT. ~5km movement throughout the training areas to confidently negotiate obstacles with animals.				
PM	STABLES ROUTINE.	MW-272			
T-8		I			
AM	PREPARE ANIMALS FOR EMPLOYMENT.	MW-272			
AM	BIVOUAC ROUTINE (HIGHLINE). Movement and class on bivouac considerations and use of a highline.	MW-258			

HITCHES (ADVANCED PACKING). Class and practical application on advanced techniques to enable animal packing efforts.	MW-263
STABLES ROUTINE.	MW-272
: Planning & Employment	
PREPARE ANIMALS FOR EMPLOYMENT.	MW-272
FEX PRAC APP. Learners prepare loads for field training.	HAPC- FEX
FEX. Insert movement of pack string (~8km).	ANPK- FEX
FEX. Pack string movement (~18km) & bivouac routine.	ANPK- FEX
FEX. Pack string movement (~14km) & bivouac routine.	ANPK- FEX
FEX. Pack string movement (~15km) & bivouac routine.	ANPK- FEX
FEX. Pack string movement (~8km) & bivouac routine.	ANPK- FEX
FEX. Pack string movement (~7km).	ANPK- FEX
TACK AND EQUIPMENT MAINTENANCE.	ADMIN- 05
STABLES ROUTINE.	MW-272
MAINTENANCE, EQUIPMENT RECOVERY, ADMINISTRATION,	ADMIN- 05, 07, 08
ADMINISTRATION & COURSE GRADUATION.	
	techniques to enable animal packing efforts. STABLES ROUTINE. Planning & Employment PREPARE ANIMALS FOR EMPLOYMENT. FEX PRAC APP. Learners prepare loads for field training. FEX. Insert movement of pack string (~8km). FEX. Pack string movement (~18km) & bivouac routine. FEX. Pack string movement (~18km) & bivouac routine. FEX. Pack string movement (~15km) & bivouac routine. FEX. Pack string movement (~7km) & bivouac routine. FEX. Pack string movement (~7km). TACK AND EQUIPMENT MAINTENANCE. STABLES ROUTINE. MAINTENANCE, EQUIPMENT RECOVERY, ADMINISTRATION,

7. Mandatory Readings: There are no mandatory pre-coursework or readings, however section 8 of the program of study details recommended MarineNet videos and courses.

8. Recommended Readings:

MWTC Pre-Environmental Training Animal Horsemanship & Packing, MARINENET Facilitator Led Course (Learners contact course staff to register for PET in MARINENET).

Animal Packing Coursebook. (Located on above MARINENET course or <u>https://usmc.sharepoint-mil.us/sites/TECOM_MCMWTC/SitePages/Formal-Schools.aspx</u>).

ATP 3-18.13, Special Forces Use of Pack Animals, 2014, <u>ATP 3-18.13 (army.mil)</u> Limited Distributed, CAC required.

Horse Soldiers: The Extraordinary Story of a Band of US Soldiers Who Rode to Victory in Afghanistan, Doug Stanton, 2011.

		Ani	imal Packing Course Gear List		
REQUIRED ADMIN			Hygiene Kit		
Reporting Orders 1			Item	QTY	Note
Command Screening Checklist	1		Tooth Brush	1	INOLE
Identification Card	1		Tooth Paste	1	
Identification Card			Floss	1	
Gear and Equipment			Razor w/Extra Blades	1	
Item	QTY	Note	Shaving Cream	1	
USMC Pack w/WP liner	1	NOLE	Chapstick	2	
Assault Pack w/WP liner	1		Sunscreen	1	
	1			2	
Sleeping Bag - Tan	1	a nation a l	Towel		
Sleeping Bag - Black	_	optional	Shower Shoes	1	
Bivy Sack	1		NICO		
ISO Mat	1		MISC		
MARPAT Tarp	1	or equivalent	Item	QTY	
Poncho Liner	1		Notebook	1	For the Classroom
Canteen/Nalgene	2		Write-in-the-rain	1	For the Field
Canteen/Nalgene Carrier	2		Pen	2	
Canteen/Nalgene Cup	1		Pencil	2	Winter Courses
Hydration Bladder - 3Liter	1	Recommended	Highlighter	1	
Hydration Carrier	1	Recommended	Map Pen Set w/Eraser Pen	1	
IFAK	1		Protractor	1	
Chest Rig/LBV/Belt with Mag pouches	1		Combination Lock	2	
			Proper Civilian Attire	1	
Uniform Items			Eye Protection w/Clear and Dark Lenses	1	
Item	QTY	Note	Red Lens Flashlight or Headlamp w/Batteries	1	
Utilities - MARPAT Woodland	2	No FROG	Knife or Multi-tool	1	
GoreTex Top/Bottom - MARPAT Woodland	1		Mechanics Gloves	1	Optional
Garrison Cover - MARPAT Woodland	1		Laundry Bag	1	
Boonie Cover - MARPAT Woodland	1		Personal Electronic Devices (Laptop, Tablet, Cell Phone)		For Electronic Publications
Skivvie Shirt	6				••
Underwear	6		Weapons and Optics		
Socks, Brown, Pair	6	Recommend Wool	Item	QTY	Note
Socks, White, Pair	N/A	recommend woor	Service Weapon w/ 6x magazines	1	If participating in MTX
USMC Boots	1		Optics (Optional)	N/A	
PolyPro Top/Bottom, Set	2		Compass	1 N/A	
Grid Fleece Top/Bottom, Set	1		Compass	1 1	· I
ECW (Happy) Parka	1	MWTC IIF	Notes: MCMWTC IIF will only supply items if you have no	t hoer	issued from your parent
Neck Gaiter	1				
Fleece Cap	1		unit IIF. A letter of transmittal should be brought with you	ir wea	pon.
Fieece Cap Finger Gloves, Insulated	N/A	MWTC IIF			
Contact Gloves, (Non-Cotton)	N/A	MWTC IIF			
3/4 Gaiters (Outdoor Research)	N/A	MWTC IIF			
Balaclava	N/A	<u> </u>			
USMC Running Suit/Sweats	N/A				
PT Shorts	N/A				
PT Shoes	N/A				



Basic Cold Weather Advisor Program of Study (M2403W1)

1. Learning Program Overview: The Basic Cold Weather Advisor (BCWA) course is a 12-day learning program designed to provide MAGTF units with a skilled core of Marines capable of serving as advisors in basic winter

operations. The intent of this course is to build enablers across the MAGTF to conduct sustained operations in a cold weather operational environment.

2. Course Description: To train military personnel from any MOS and rank, to become basically qualified in winter operations. Graduates can sustain themselves, assist, and supervise others, apply considerations, techniques, sustaining routines and procedures, and advise others to enable effective operations in a cold weather, mountainous, and/or snow-covered environments. Graduates can also assist in Pre-Environmental Training (PET) to their unit.

3. Program Outcomes: Beginning with the orientation of PET, through progressive conditioning, equipment familiarization, immersion and cold weather routines during field exercises, and mobility. This learning program develops capabilities and understanding for learners to assist Mountain Leaders in training and advising required actions to sustain MAGTF operations in a cold weather environment. Learners will experience the environment and inherent challenges, employ, and maintain clothing and equipment unique to cold weather environments, understand and apply equipment confidence, sustainment requirements, conduct over-snow mobility, cold weather techniques, routines, and procedures. Graduates of this course will be capable of facilitating and advising their Marines in a cold weather environment and may assist Mountain Leaders in these efforts.

Phase I: PET. PET will provide learners with an understanding of mountainous terrain, weather, safety, leadership challenges, health, and the environment. Learners will understand materiel, equipment, and techniques and procedures for mitigating impacts to individuals and units in this environment.

Phase II: Mountain Mobility. In this phase learners will build confidence moving and sustaining efforts within the training areas; learners will also understand environmental impacts to mobility and identify opportunities to maximize efficiency.

Phase III: Field Exercise (FEX): During this phase learners will demonstrate proficiency in the various elements of fieldcraft (techniques and procedures) that they have been shown and practiced; learners will also conduct the BCWA course of fire in this environment.

4. Participation & Assessments: This learning program successively builds on previous topics and skills throughout the course. Due to the depth of knowledge and likelihood of exposure to new knowledge and skills throughout this condensed course, participation is required with successful completion of all successive activities and assessments as they build upon and touch back through to previous topics.

Scope of Evaluation: Written and performance examinations are the two types of evaluations used to determine the event, phase, and course completion in the BCWA Course. Objectives and outcomes are measured by a performance examination requiring individuals to perform the task (under conditions similar to those in a combat environment) or by written examination requiring the individual to demonstrate their ability to retain and apply critical knowledge.

Performance Examination. There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product or end result need be evaluated. Process examination is used to evaluate an outcome when both the end result and the process require assessment. This type of examination will be assessed using a performance evaluation checklist, teach back, or behaviorally anchored rating scale designed to demonstrate proficiency of the outcome. Individuals are provided ample time for practical application prior to being administered a performance examination.

Written Examination. The proficiency of outcomes is identified through the results of a written examination. A written examination consists of test items assigned to one or more outcomes. The types of test items on a written examination may be open ended questions or multiple choice. Eighty percent of the test items must be answered correctly in order to demonstrate proficiency on the test. In the event that an individual does not demonstrate proficiency on a written examination, they will be retested against a different version of the original examination. Individuals are provided adequate time for study prior to being administered a written examination.

Demonstration of Course Proficiency. A learner is considered to have demonstrated adequate proficiency of the course of instruction when 100% of the outcomes have been completed to standard. Failure to demonstrate proficiency of a learning outcome in the individual's first attempt, will result in the individual receiving remedial instruction and an additional opportunity to demonstrate proficiency. Failure to demonstrate proficiency of a learning outcome in the individual's first attempt, individual's second attempt, will result in the individual's referral to an Academic Review Board to determine the future of the learner's status.

5. AARs: Informal reviews by training day, completion of phases, and in-stride/by events are conducted to facilitate learning and refinement of the learning program. Specifically, discussions after Phases II & III are aimed at solidifying proficiency with the learning outcomes and objectives.

Phase I:	PET	
TD-1		
AM	WELCOME ABOARD BRIEF/ IN PROCESSING.	ADMIN 01/02
AM	PERSONAL COLD WEATHER CLOTHING. Provide the learner with the knowledge and skills to analyze the weather conditions and select the appropriate clothing and equipment according to the environment.	MW-010
AM	IIF GEAR DRAW.	
PM	GEAR INSPECTION.	
PM	MOUNTAIN HEALTH. Learners will be taught how to help prevent, recognize, and treat various health problems that can arise in a mountainous and/or a cold weather environment.	MW-002
PM	MOUNTAIN WARFIGHTING LOAD REQUIREMENTS. Learners can successfully construct and employ the six pocket items, a survival kit, assault loads, and combat loads.	MW-011

6. Schedule: (am/pm format by day with associated general outcomes)

AM	ESTABLISH SQD TENT SITE.	
AM	MOUNTAIN LEADER LOOP HIKE TO DEER RUN TRAIL. ~2k foot mobile movement to Deer Run Trail.	
AM	MOVEMENT IN MOUNTAINOUS TERRAIN. Learners can effectively employ the eight route planning considerations of terrain, weather, avalanche, snow conditions, group's ability, tactical situation and mission, equipment, and time.	MW-03
AM	MILITARY SNOWSHOES. Learners can explain the advantages/disadvantages of the military snowshoe and effectively employ them when needed.	MW-01
D-3		
haso II:	employ them in a mountainous and/or a cold weather environment. Mountain Mobility	10535
PM	MARINE CORPS COLD WEATHER INFANTRY KIT (MCCWIK). Learners can identify and inspect for serviceability the 14 components of the MCCWIK and successfully	MW-01 SL-3-
PM	SMALL UNIT EXPEDITIONARY STOVE (SUES / MSR STOVE). The learners will be taught about the SUES (AKA: MSR XGK), its nomenclature, and how to operate it.	TM 11799A OR
РМ	ARCTIC TENT/EXTREME COLD WX TENT SYSTEM. Learners can successfully construct/deconstruct the 15-person arctic tent and 4-person tent.	MW-01 MW-01 SL-3- 12419/ SL-3- 10228/
РМ	AVALANCHE AWARENESS. Learners have a basic understanding of avalanche prone terrain and red flag meanings. Learners will also know what to do if caught in an avavalanche and how to recover a victim.	MW-09
PM	WINTER CASUALTY EVACUATION. While remembering the eight considerations of conducting a casualty evacuation, learners can effectively prepare and transport a casualty to the next high echelon of medical care.	MW-03
AM	BIVOUAC IN A SNOW-COVERED ENVIRONMENT. While remembering the eight bivouac site selection considerations and the five specific areas, establish an effective bivouac.	MW-06
AM	EFFECTS OF COLD WX ON INFANTRY WEAPONS AND OPTICS. Learners will understand how cold weather can affect their units' organic weapons, how to combat its effects to make an operational weapon and execute the course of fire.	MW-10
AM	FROSTBITE/SKED CLASS. This frostbite PME is a lesson purpose discussion and is utilized to paint a representation to the learners and the importance of the personal cold weather clothing class and frostbite checks.	MW-002
AM	MOUNTAIN WEATHER. Learners will be taught and understand general weather concepts, humidity, pressure, types of winds, clouds, fronts, and indicators of weather patterns.	MW-00
AM	MOUNTAIN LEADERSHIP CHALLENGES. Learners will have a clear understanding of both strong and poor leadership attributes in a mountainous and/or a cold weather environment.	MW-00
D-2		
PM	MOUNTAIN SAFETY. Learners will be able to implement the 12 principles of mountain safety (<i>BE SAFE MARINE</i>) in accordance with MCRP 12-10A.1 to sustain operations in a mountainous and/or a cold weather environment.	MW-00

PM	WATER PROCUREMENT. Learners can effectively procure potable water preventing dehydration	MW-130
PM	PET TEACHBACKS.	
PM	PET TEST REVIEW.	
PM-AM	Overnight in 15 Man Arctic Tent	
D-4		I
AM	AVALANCHE AWARENESS AND SNOW SCIENCE. Discussion on previous class and demonstration of snow pit analysis.	
AM	FOOT MOVEMENT TO LOWER BASE CAMP. Learners will conduct movement over a designated route.	MW-236
AM	IFF RETURNS/EXCHANGES.	
PM	FINAL PET STUDY REVIEW.	
РМ	PET EXAM.	CWL-XW
PM	FIELD PREP.	
hase III:	FEX	
D-5		
AM	ARMORY DRAW.	
AM	GEAR INSPECTION.	
AM	INSERT TO BIVOUAC SITE. Insert via Tuckers.	
AM	ESTABLISH BIVOUAC SITE. 15-Man Tents.	
РМ	MCCWIK/ SUES / COLD WEATHER CLOTHING TEACHBACKS. Learners will demonstrate to facilitators a basic level of understanding of the fundamentals of movement with gear inside the MCCWIK, SUES Stove, and cold weather Clothing.	
PM	LIGHT/NOISE DISCIPLINE. Discussion and demonstration regarding the importance of noise and light discipline while in a mountainous and/or a cold weather environment.	MW-065
D-6		1
AM	FOOT MOVEMENT TO 4-MAN ECW TENT SITE.	
AM	SNOW COVER & CONCEALMENT TECHNIQUES. Learners understand and can effectively employ concealment techniques in a mountainous and/or a cold weather environment.	MW-069
PM	FIELD FORTIFICATION. Learners will have an understanding on how to construct an effective defensive position and force protection considerations in a mountainous and/or a cold weather environment.	MW-107
PM	ESTABLISH TRACK PLAN. Learners will establish a track plan with minimal aid from facilitators.	
L IAI		

AM	PULL POLE DEMO/PRACTICE. Learners will be shown a proper pull pole procedure and then will execute the procedure.	
AM	FOOT MOVEMENT/CASEVAC. Learners will conduct over the snow movement, encountering a CASEVAC drill mid-way through.	
AM	PET TEACHBACKS.	
PM	MCCWIK/SUES/CW CLOTHING TEACHBACKS.	
РМ	TRACK PLAN IMPROVEMENT. Facilitators will guide learners on how to improve their initial track plan.	
-8		
AM	PULL POLE PROCEDURE. Learners will execute pull pole procedure with minimal guidance from facilitators.	
AM	FOOT MOVEMENT TO SNOW SHELTER SITE.	
AM	EXPEDIANT SNOW SHELTERS. Learners will be able to construct and maintain a manmade shelter.	MW-12
PM	REQUIREMENTS FOR OVERNIGHT GEAR CONFIDENCE. Understanding the eight considerations for overnight gear confidence, learners will know the priorities of work for the first 24 hours if placed in a unplanned overnight situation.	MW-12
РМ	EMERGENCY NAVIGATION. Without traditional navigation aids, learners will have a basic understanding of celestial navigation and will move 500m to a designated location.	MW-12
РМ	EMERGENCY SIGNALING. Without traditional signaling aids, learners will have a basic understanding of how to signal for recovery by visual and audible means.	MW-12
PM	EMERGENCY FIRES. Learners will have a basic understanding of how to build and maintain fires for emergency situations.	MW-12
PM	ESTABLISH SNOW SHELTERS.	
РМ	SNOWSHOE TOUR AND LIGHT & NOISE DISCIPLINE DEMO. Learners will observe a track plan at night for visual and auditory signatures at various distances.	MW-06
-9		
AM	SHOOTING POSITIONS. Facilitators will demonstrate shooting positions utilizing ski poles and snowshoes.	
AM	DRY FIRE SHOOTING POSITIONS (PA).	
AM	SET UP RANGE. Learners will set up bullet pen/IA drill positions for the range.	
AM	RANGE BRIEF.	
PM	BZO/CONFIRMATION. Learners will BZO rifles at 25m.	
PM	OVER THE SNOW FIRING POSITIONS/IA DRILLS. Learners will demonstrate an understanding of over the snow firing positions while shooting at the different forms of snow fortifications and while manipulating their weapon.	MW- SSFIRE OS
РМ	BULLET PENETRATION DEMO. Learners will observe how different field fortification methods are affected by direct fire.	MW- PENSH OT
PM	GEAR CONFIDENCE XP BRIEF.	
PM	GEAR CONFIDENCE XP.	

PULL POLE/SHELTER BREAK DOWN/SANITIZE TRACK PLAN.	
FOOT MOVEMENT & CULMINATING EVENT.	
CULMINATING EVENT. On order, learners will conduct an avalanche search and rescue and CASEVAC movement. Upon arrival to lower base camp, learners will execute rewarming techniques following submersion.	
WEAPONS CLEANING/ARMORY TURN IN.	
PET TEST P2 (IF NECESSARY).	
COURSE GEAR INVENTORY.	
IIF TURN IN.	
END OF COURSE SURVEYS.	
GRADUATION REHEARSAL.	
SQUAD BAY FIELD DAY.	
SQUAD BAY INSPECTION.	
GRADUATION REHEARSAL.	<u></u>
GRADUATION.	
	FOOT MOVEMENT & CULMINATING EVENT. CULMINATING EVENT. On order, learners will conduct an avalanche search and rescue and CASEVAC movement. Upon arrival to lower base camp, learners will execute rewarming techniques following submersion. WEAPONS CLEANING/ARMORY TURN IN. PET TEST P2 (IF NECESSARY). COURSE GEAR INVENTORY. IIF TURN IN. END OF COURSE SURVEYS. GRADUATION REHEARSAL. SQUAD BAY FIELD DAY. GRADUATION REHEARSAL.

7. Mandatory Readings: There are no mandatory pre-work or readings, however section 8 of the program of study details recommends reading and additional resources before, during, or after participation in the course.

8. Recommended Readings:

Cold Weather Training- Embrace the Cold, Steven Decker, Northern Warfare Training Center, Fort Wainwright, Alaska October 2, 2017 https://www.army.mil/article/194712/cold_weather_training_embrace_the_cold

A Cold Weather LCE, the justification, By Maj Mark Wlaschin, Marine Corps Gazette, October 2017 <u>https://mca-marines.org/wp-content/uploads/A-Cold-Weather-LCE.pdf</u>

Lessons in Winter Warfare from the Ukrainian War Zone – A Case Study for America's Arctic Pivot, By Nolan Peterson, March 13, 2021 <u>https://coffeeordie.com/lessons-winter-warfare/</u>

Every Clime and Place? A call to action for all logisticians, By Maj Mark Wlaschin & Capt's Gaetano Bettinelli and Jon Thomas, Marine Corps Gazette, April 2017 <u>https://mca-marines.org/wp-content/uploads/2018/12/Marine-Corps-Gazette-April-2017.pdf</u>

		Basic	Cold Weather Advisor Gear List			
REQUIRED ADMIN			Hygiene Kit			
Reporting Orders	1		Item	QTY	Note	
Command Screening Checklist	1		Tooth Brush	1		
<u>v</u>			Tooth Paste	1		
Identification Card	1		Floss	1		
			Razor w/Extra Blades	1		
Gear and Equipment			Shaving Cream	1		
ltem	QTY	Note	Chapstick	2		
USMC Pack w/WP liner	1	11010	Sunscreen	1		
Assault Pack w/WP liner	1		Towel	2		
Sleeping Bag - Tan	1		Shower Shoes	1		
Sleeping Bag - Black	1				_	
Bivy Sack	1		MISC	-		
ISO Mat	1		Item	QTY	Note	
MARPAT Tarp	1		Notebook	1	For the Classroom	
Poncho Liner	1		Write-in-the-rain	1	For The Field	
Canteen/Nalgene	2		Pen	2		
Canteen/Nalgene Carrier	2		Pencil	2	<u> </u>	
Canteen/Nalgene Cup	2		Highlighter	1		
IFAK	1		Map Pen Set w/Eraser Pen	1		
Chest Rig/LBV/Belt with Mag pouches	1		Protractor	1		
Chest Rig/LBV/Beit with Mag pouches	1		Combination Lock	2		
Liniforme kono						
Uniform Items			Proper Civilian Attire	1		
Item	QTY	Note	Eye Protection w/Clear and Dark Lenses	1		
Utilities - MARPAT Woodland	1	No FROG	Red Lens Flashlight or Headlamp W/ Batteries	1		
GoreTex Top/Bottom - MARPAT Woodland	1		Knife or Multi-tool	1		
Garrison Cover - MARPAT Woodland	1		550 Cord	50ft		
Boonie Cover - MARPAT Woodland	1		Reflective Belt	1		
Skivvie Shirt	4		Laundry Bag	1	E a Ela stravia Dablia stiana	
Underwear	6		Personal Electronic Devices (Laptop, Tablet, Cell Phone)	I	For Electronic Publications	
Socks, Brown, Pair	6	Require Wool				
Socks, White, Pair	2		Weapons and Optics			
USMC Boots	1		Item	QTY	Note	
PolyPro Top/Bottom, Set	2		Service Weapon w/ 6x Magazines	1		
Grid Fleece Top/Bottom, Set	1		Optics (including NVDs)	1		
ECW (Happy) Parka	1	MWTC IIF				
ECW (Happy) Trousers	1	MWTC IIF	Notes: MWTC IIF will only supply items if you have not b			
ECW (Happy) Booties	1	MWTC IIF	unit IIF. A letter of transmittal should be brought with yo	ur we	apon.	
ECW Mittens (Outdoor Research)	1	MWTC IIF	1			
Neck Gaiter	1		11			
Fleece Cap	1		11			
Finger Gloves, Insulated	1	MWTC IIF	1			
Contact Gloves, (Non-Cotton)	2	MWTC IIF	1			
3/4 Gaiters (Outdoor Research)	1	MWTC IIF	1			
Balaclava	1		1			
USMC Running Suit/Sweats	1		1			
PT Shorts	1					
PT Shoes	1					



Winter Mountain Engineer Course Program of Study (M24MEW1)

1. Learning Program Overview: The Winter Mountain Engineer course is a 24-day Learning Program designed to enhance the skills of Combat Engineers operating in complex, compartmentalized, snow-covered, and

mountainous environments.

2. Course Description: This learning program is designed to provide the Combat Engineer Officer and NCO academic instruction and field practical application in mountain warfare engineering tactics, techniques, and procedures; to include engineer planning considerations for maneuver and force protection warfighting functions for combat operations in complex, compartmentalized, mountainous, and snow-covered environments.

3. Program Outcomes: Graduates are capable of conducting pre-environmental and engineer specific training for their units from the Mountain Warfare Training and Readiness Manual, as well as serving as force-multipliers and advisors to their units operating in combat in steep to vertical, snow-covered, high altitude, and mountainous terrain.

Phase I: Pre-Environmental Training: Pre-Environmental Training (PET) consists of an immersive experience in understanding the nuances of mountain and cold weather operations. Learners will be taught specifics pertaining to mountain health awareness, mountain weather, cold weather clothing, warfighting loads, movement in mountainous terrain, and how to mitigate leadership challenges in this environment, as well as techniques, tactics, and procedures while operating in a mountainous environment.

Phase II: Mobility: Learners will be taught how to achieve and provide mobility to supported units through specialized mountaineering training. During this phase learners will receive in-depth instruction and practical application in snowshoe implementation, military skiing, and assessing snowpack and avalanche conditions.

Phase III: Counter-Mobility/Survivability: Learners will enhance the techniques of countermobility and survivability that they are already familiar with by adding in mountainous and cold weather considerations. Learners will participate in obstacle integration planning/wargaming, learn to safely and effectively operate and maintain chainsaws in a cold-weather environment, conduct fell-standing timber operations, and construct field fortifications and obstacles with logs, ice, and snow.

Phase IV: Field Exercise (FEX): As the culminating event of the training program, learners will be issued a tactical scenario complete with operations order and multiple fragmentary orders as the scenario progresses. Over the course of 72 hours of continuous operations, they will apply all the skills they have been taught and practiced since the beginning of the course in order to assess their abilities to apply the functional tenets of combat engineering in a mountainous environment.

4. Participation & Assessments: The design of this course is oriented in technical application and problem-solving. Being that the target population is NCOs and Officers in a highly technical MOS, full participation and demonstration of proficiency of events by phase is crucial to the learners' abilities to demonstrate proficiency in assessment.

Scope of Evaluation: Evaluation of the PET skillset mastery will be determined via a written examination that will take place in the transition from Phase I to Phase II. This will identify the individual learner's ability to retain and apply critical thinking and knowledge of topics covered during PET. An additional written examination will be administered that will cover specifics of avalanche hazard identification, snow-covered environment bivouac, and over-the-snow-mobility. For the

remainder of the course, evaluations will be performance exams identifying the learners' abilities to execute the desired outcome given a scenario in which the procedures taught will be graded accordingly.

Performance Examination: There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product or end result need be evaluated. Process examination is used to evaluate an outcome when both the end result and the process require assessment. Examples of Product Examinations are ice, demolitions, and engineer reconnaissance. Examples of Process Examinations include any engineer reconnaissance task or mission, fell-standing timber operations, and the final exercise. For all examinations, learners will be thoroughly briefed on proficiency criteria, timelines, and remediation. Facilitator demonstration and practical application will be allotted prior to any examination.

Written Examination: The written examinations are designed to assess the learner's ability to retain the information given throughout the first and second phases of the course. Testable items will be based on terminal learning objectives and outcomes and tested in the form of an applicable scenario. The test consists of open-ended short answer questions, fill-in-the-blank, matching, and a few multiple-choice items. The test consists of a learner entering the information given in their own words and defending their answer. This method has been determined to have a positive effect on knowledge-retention, requires more dedicated study and understanding of terminal learning objectives and outcomes, and virtually eliminates the possibility of integrity violation during the test. Individuals will be made aware of the date for the written examinations at the beginning of the course. An eighty percent score must be achieved to pass both written examinations. Learners who fail to pass either of the written examinations will be allotted an additional attempt, given a new version of the test.

Demonstration of Course Proficiency: Learners meet/attain course completion criteria when all testable items are satisfied to include the written examinations and all product and process-based performance examinations to demonstrate knowledge retention. All failures to demonstrate proficiency will be allotted additional time to remediate. Learners will be formally briefed prior to the conduct of any initial or remedial examination. Failure to demonstrate successful remediation of any examination will constitute an academic drop from the course.

5. AARs: Each learner will be assigned to a squad with a faculty advisor. Individual counseling is given by the faculty advisor to each learner on the learner's proficiency during a particular phase. A dedicated period will be given at the culmination of the course to assess the class's overall proficiency of all knowledge, skills, and attitudes evaluated throughout the final exercise. The end of course survey provided by a representative from the academics section will allow for learners to give their unbiased feedback regarding the conduct of the course.

6. Schedule: (am/pm format by day with associated general outcomes).

Red indicates High Risk Training

Phase I: PET				
TD-1				
AM	WELCOME ABOARD BRIEF/ IN PROCESSING.	ADMIN- 02/04		
AM	MOUNTAIN SAFETY. Learners are able to identify/apply the considerations of safety while operating in a mountainous environment.	MW-001		

	PERSONAL COLD WEATHER CLOTHING/EQUIPMENT. Learners can employ	
AM	personal cold weather clothing & equipment to prevent environmental injuries, understanding the design principles of various cold weather clothing layers through	MW-010
	application of the acronym VIP/COLD.	
	MOUNTAIN WARFIGHTING LOAD REQUIREMENTS. Learners are able to identify and	
AM	apply specifics to packing a warfighting load in a mountainous and cold weather	MW-011
	environment.	ADMIN-05
PM	IIF/ROPE ROOM ISSUE. Learners receive individual/mountaineering issue.	ADMIN-05
	MOUNTAIN HEALTH AWARENESS. Learners will understand ways the human body	MW-002
PM	generates and loses heat, cold weather injuries, and high-altitude considerations and injuries.	
PM	MILITARY SNOWSHOES. Learners are able to use military snowshoes to move through snow-covered, mountainous terrain.	MW-018
	MARINE CORPS COLD WEATHER INFANTRY KIT (MCCWIK). Learners are able to	
PM	identify the components of the MCCWIK and successfully employ them in a	MW-016
	mountainous/cold weather environment.	
TD-2		
	MOVEMENT IN MOUNTAINOUS TERRAIN. A discovery-learning method of selecting	
AM	and applying terrain negotiation will be conducted. Learners will be able to identify and	MW-032
	apply all terminal learning objectives and outcomes associated with the lesson.	
AM	WATER PROCUREMENT. Learners are able to identify suitable methods to procure	MW-130
	water, waterborne hazards, and methods for purification.	
AM	ICE RESCUE. Learners are able self-rescue from water hazards and gain confidence in the issued equipment.	MW-064
PM	MOUNTAIN WEATHER. Learners will be able to identify and recognize weather patterns	MW-004
	that occur in a mountainous environment.	10100-004
PM	Route selection and planning.	
	COLD WEATHER TENT SYSTEM. Learners receive demonstration and practical	
PM	application of the 4-person Extreme Cold Weather fire team tent and the 15-person arctic	MW-015
Phase II:	shelter. Mobility	
TD-3		
10-5		
AM	PRE-ENVIRONMENTAL TEST. PET examination.	XW-01
AM	MOVEMENT TO LZ SPARROW. Vehicle movement to LZ Sparrow	MW-032
PM	SNOW-COVERED CONCEALMENT TECHNIQUES. Learners understand and can	MW-069
	effectively employ concealment techniques in this environment. BIVOUAC IN A SNOW-COVERED ENVIRONMENT. Learners will apply the eight site-	
	selection criteria and five special use areas to conduct bivouac routine for snow-covered	MW-063
PM	environments.	
	FROSTBITE CHECK PME. Learners will receive demonstration and instruction on how	
PM	to conduct frostbite checks in a cold-weather environment.	MW-002A

PM	EVENING FIELD ROUTINE.	MW-063
PM	MOUNTAIN/COLD WEATHER (M/CW) ENGINEER CONSIDERATIONS (LIGHT AND NOISE DISCIPLINE). Learners receive a demonstration on light and noise signatures in this environment.	MW-352
D-4		
AM	MORNING FIELD ROUTINE.	MW-063
AM	MILITARY SKI EQUIPMENT. Learners receive demonstration and class on military ski equipment and use.	MW-070
PM	DISPLACE TO NEW BIVOUAC. Learners will use all skills taught to this point to conduct a tactical movement to the destination, given a fragmentary order (~1 km).	MW-032
PM	EVENING FIELD ROUTINE.	MW-063
D-5		
AM	MORNING FIELD ROUTINE.	MW-063
AM-PM	MILITARY SKIING. Learners will be divided into squads; faculty advisor will teach basic ski techniques.	MW-070
AM	ASSESS AVALANCHE DANGER. Learners are able to identify/apply terminal learning objectives/outcomes of avalanche danger assessment.	MW-100
AM	SNOWPACK ANALYSIS. Learners receive instruction, demonstration, and conduct practical application of snowpack analysis.	MW-100
PM	ASSESS AVALANCHE DANGER (AVALANCHE RESCUE). Learners conduct avalanche rescue practical application using specialized mountaineering equipment.	MW-100
PM	CROSSING AVALANCHE TERRAIN. Learners understand specific considerations for crossing avalanche prone slopes to mitigate danger to the element.	MW-100
PM	EVENING FIELD ROUTINE.	MW-063
D-6		
AM	MORNING FIELD ROUTINE.	MW-063
AM-PM	DISPLACE TO LZ OWL. Learners will use all skills taught to this point to conduct a tactical movement to the destination, given a fragmentary order (~3 km).	MW-032
PM	EVENING FIELD ROUTINE.	MW-063
D-7		
AM	MORNING FIELD ROUTINE.	MW-063
PM	MILITARY SKIING. Learners practice basic downhill ski techniques to prepare themselves for future tactical movements.	MW-070
PM	WINTER MOUNTAIN CASEVAC. Learners conduct a shattering event: a practical application of a scenario to move a casualty. Learners will be given a class on CASEVAC specific to a snow-covered, mountainous environment.	MW-031
PM	DISPLACE TO R600. Learners will use all skills taught to this point to conduct a tactical movement to a specified destination, given a fragmentary order (~3 km).	MW-032
PM	EVENING FIELD ROUTINE.	MW-063

FD-8		
AM	MORNING FIELD ROUTINE.	MW-063
AM-PM	MILITARY SKIING. Learners conduct a faculty-supervised ski tour using military skiing skills.	MW-070
AM	ENGINEER RECONNAISSANCE REPORTS. Learners receive a class and copies of engineer reconnaissance reports to be used throughout the course.	MW-355
AM-PM	M/CW ENGINEER CONSIDERATIONS (ROUTE/AREA RECON). Learners conduct engineer reconnaissance during a movement to an objective (~4 km).	MW-352
PM	MOVEMENT TO LBC. ~4 km movement.	MW-032
PM	EVENING ROUTINE. Learners allotted time to prep gear, study, and coordinate for the following field evolution.	
Phase III: (Counter-Mobility/Survivability	
FD-9		
AM	MORNING FIELD ROUTINE.	XW-2
AM	CHAINSAW OPERATIONS. Learners receive instruction on chainsaw operation, maintenance, and tree felling.	MW-363
AM	CW DEMOLITIONS CONSIDERATIONS. Learners receive instructions on application and considerations of employment of military demolitions in a cold weather environment.	MW-361
AM	ICE RECONNAISSANCE. Learners receive instruction to be able to identify/classify ice conditions.	MW-064
AM	AVALANCHE INITIATION. Learners receive instruction on avalanche initiation.	MW-362
PM	M/CW ENGINEER CONSIDERATIONS (OBSTACLE INTEGRATION PLANNING). Learners receive class and Tactical Decision Game (TDG) covering obstacle integration in a snow-covered, mountainous environment.	MW- 352/358
PM	FIELD FORTIFICATION. Learners are able to construct effective defensive positions and employ force protection considerations in a snow-covered environment.	MW-107
PM	MCM OBSTACLE BREACHING CONSIDERATIONS. Learners discuss specialized considerations for obstacle breaching in a cold weather, snow covered environments.	MW-352
۲D-10		4
AM	WRITTEN EXAM 2. Topics: avalanche considerations, bivouac in snow-covered environment, survival, and over-the-snow mobility.	XW-2
PM	VEHICLE MOVEMENT TO LZ HAWK. Administrative movement to drop-off point at LZ Hawk.	ADMIN-0
PM	EVENING FIELD ROUTINE.	MW-063
ГD-11		
AM	MORNING FIELD ROUTINE.	MW-063
AM-PM	MILITARY SKIING. Learners conduct a faculty-supervised ski tour using military skiing skills.	MW-070

AM	M/CW ENGINEER CONSIDERATIONS (EXPLOSIVE TREE-FELLING). Learners conduct demolitions to fell-standing timber.	MW-352
PM	FIELD FORTIFICATION. Learners construct field fortifications and obstacles utilizing explosively felled timber.	MW-107
PM	EVENING FIELD ROUTINE	MW-063
FD-12		
AM	MORNING FIELD ROUTINE.	MW-063
AM-PM	MILITARY SKIING. Learners conduct a faculty-supervised ski tour using military skiing skills.	MW-070
AM	M/CW ENGINEER CONSIDERATIONS (EXPLOSIVE TREE-FELLING). Learners conduct demolitions to breach log obstacles	MW-352
PM	VEHICLE MOVEMENT TO R1000. Administrative movement to drop-off point at R1000.	ADMIN-0 ⁷
PM	ICE-CRETE CONSTRUCTION. Learners demonstrate field fortification and construct ice-crete for follow-on use.	MW-352
PM	EVENING FIELD ROUTINE.	MW-063
D-13		•
AM	MORNING FIELD ROUTINE.	MW-063
AM	WINTER BULLET PENETRATION SHOOT. Learners will participate in bullet penetration shoot to observe effects of small arms fire against snow/ice fortifications.	BULPEN
AM-PM	DISPLACE TO LEAVITT LAKE. Learners will use all skills taught to this point to conduct a tactical movement to a specified destination, given a fragmentary order (~7km)	MW-032
PM	EVENING FIELD ROUTINE.	MW-063
۲D-14		
AM	MORNING FIELD ROUTINE.	MW-063
AM	SKI TOUR. Learners conduct a faculty-supervised ski tour using military skiing skills.	MW-070
AM	ICE RECONNAISSANCE EXAM. Performance examination of ice reconnaissance.	XP-ICE RECON
AM-PM	ICE BREACHING. Learners construct demolition charges to breach ice.	MW-350
PM	EVENING FIELD ROUTINE.	MW-063
TD-15		
AM	MORNING FIELD ROUTINE.	MW-063
AM-PM	AVALANCHE INITIATION. Learners construct demolition charges and initiate an avalanche.	MW-362
PM	AVALANCHE INITATION EXAM. Performance examination of avalanche initiation.	XP-AVY

PM	MOVEMENT IN MOUNTAINOUS TERRAIN. Learners will move across snow-covered, mountainous terrain to a specified objective (~3 km).	MW- 032/070
PM	EVENING ROUTINE.	MW-063
TD-16		
AM	MORNING FIELD ROUTINE.	MW-063
AM	IMPLEMENTING ENGINEERS IN CW PATROLLING. Learners will practice patrolling in a winter environment utilizing discovery learning to develop SOPs in an explosive hazard environment.	
AM	IMMEDIATE ACTION REFINEMENT. Learners divide into squads to implement their SOPs in complex situations to prepare for future events during the course.	
PM	COLD WEATHER DEMOLITIONS RECON. Learners conduct reconnaissance for employment in the defense.	MW-361
РМ	GEAR CONFIDENCE PRACTICAL APPLICATION. Learners rely on the issued equipment and a snow shelter to bivouac for the night.	MW-063
TD-17		
AM	MORNING FIELD ROUTINE.	MW-063
AM	M/CW ENGINEER CONSIDERATIONS (ROUTE/AREA RECON). Learners conduct engineer reconnaissance during a movement to a specified objective (~3 km).	MW-352
РМ	M/CW ENGINEER CONSIDERATIONS (OBSTACLE INTEGRATION PLANNING). Learners conduct a TDG to determine how to defend the area they reconnoitered.	MW- 352/358
PM	VEHICLE MOVEMENT TO LBC. Administrative movement to drop-off point at LBC.	ADMIN-01
РМ	EVENING ROUTINE. Learners allotted time to prep gear, study, and coordinate for the following field evolution.	
TD-18		
AM	MOUNTAINOUS COMMUNICATION CONSIDERATIONS. Learners are instructed on special considerations for operating the PRC-160 in a mountainous environment.	
PM	MOUNTAINOUS COMMUNICATION CONSIDERATIONS. Learners conduct a practical application in establishing comms using expedient antennas and the PRC-160 between elements.	
РМ	FEX OPERATIONS ORDER. Learners will receive final exercise operations order and will be allotted time for preparation, RFI/RFS.	
Phase IV:	FEX	
A-DAY 1		
AM-PM	FEX PREP. Learners are allowed time to prepare for the FEX and issue their order.	
TD 19-21		

AM-PM	FEX.	
	ut Processing	
AM	MORNING ROUTINE.	
AM	IIF/ROPE ROOM DE-ISSUE. Learners will return all issued gear.	ADMIN-05
AM	END OF COURSE SURVEY. Learners administered End of Course Survey	ADMIN-08
AM	S-1 OUT-PROCESSING/ORDERS. Learners receive endorsement orders back to their units.	ADMIN-03
AM-PM	FINAL COUNSELING. Squad facilitators will administer final counseling.	
PM	GRADUATION PRACTICE. Learners will conduct Graduation practice.	
PM	FIELD DAY. Learners conduct field day of squad bay.	ADMIN-07
A-DAY 3 G	raduation	
AM	MORNING ROUTINE.	
AM	GRADUATION.	ADMIN-09
AM	TRANSIT TO RENO-TAHOE INT'L AIRPORT. Learners will receive transport to RNO to return to home station.	ADMIN-02

7. Mandatory Readings: N/A

8. Recommended Readings:

"Lessons from the Winter War: Frozen Grit and Finland's Fabian Defense" By Iskander Rehman July 20,2016 <u>https://warontherocks.com/2016/07/lessons-from-the-winter-war-frozen-grit-and-finlands-fabian-defense/</u>

"Lessons in Winter Warfare from the Ukrainian War Zone, A Case Study for America's Arctic Pivot. By Nolan Peterson, March 13, 2021 <u>https://coffeeordie.com/lessons-winter-warfare/</u>

MCWP 3-34 Engineer Operations, Chapter 7 Operational Situations and Environments <u>USMC Doctrine - Home (sharepoint-mil.us)</u> Keyword: Engineer Operations

"Mountain Warfare–The Need for Specialized Training" by Major Muhammad Asim Malik, Pakistan Army. <u>https://smallwarsjournal.com/documents/malik.pdf</u>

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Summer Mountain Engineer Course Program of Study (M24MES1)

1. Learning Program Overview: The Mountain Engineer course is a 24-day Learning Program designed to enhance the skills of Combat Engineers operating in complex, compartmentalized, subterranean, and mountainous environments.

2. Course Description: This learning program is designed to provide the Combat Engineer Officer and NCO academic instruction and field practical application in mountain warfare engineering tactics, techniques, and procedures; to include engineer planning considerations for maneuver and force protection warfighting functions for combat operations in complex, compartmentalized, mountainous, and subterranean environments.

3. Program Outcomes: Graduates are capable of conducting pre-environmental and engineer specific training for their units from the Mountain Warfare Training and Readiness Manual, as well as serving as force-multipliers and advisors to their units operating in combat in steep to vertical, subterranean, high altitude, and mountainous environments.

Phase I: Pre-Environmental Training (PET): PET consists of an immersive experience in understanding the nuances of mountainous operations. Learners will be taught specifics pertaining to mountain health awareness, mountain weather, cold weather clothing, warfighting loads, movement in mountainous terrain, and how to mitigate leadership challenges in this environment, techniques, tactics, and procedures while operating in a mountainous environment.

Phase II: Mobility: Learners will be taught how to achieve and provide mobility to supported units through specialized mountaineering training. During this phase learners will receive in-depth instruction and practical application in rope techniques, engineer reconnaissance, and mountain/cold weather engineer considerations.

Phase III: Counter-Mobility/Survivability: Learners will enhance the techniques of countermobility and survivability they are already familiar with by adding mountainous considerations. Learners will participate in obstacle integration planning/wargaming, construct rock fortifications, learn how to operate and maintain chainsaws, conduct fell standing timber operations, and construct log obstacles and field fortifications safely and effectively.

Phase IV: Final Exercise (FEX): As the culminating event of the training program, the learners will be issued a tactical scenario complete with operations order and multiple fragmentary orders as the scenario progresses. Over the course of 48 hours of continuous operation they will apply the skills they developed during the course in order to assess their abilities to apply the functional tenants of combat engineering in a mountainous environment.

Phase V: Subterranean Operations: Learners will venture off-site to the *Star of the West* Mine located in lone, Nevada to apply critical skills of subterranean engineering operations in a live venue. Here they will learn key elements to operating in subterranean environments to include subterranean reconnaissance and mapping, maintaining a subterranean complex, conducting confined space rescue systems utilizing the skills they learned in the mobility phase and conducting a subterranean reconnaissance performance examination.

4. Participation & Assessments: The design of this course is oriented in technical application and problem-solving. Being that the target population is Noncommissioned Officers and Officers in

an already highly technical MOS, full participation, and demonstration of proficiency of events by phase is crucial to the learners' abilities to pass follow-on assessments.

Scope of Evaluation: Evaluation of skillset mastery of PET will be determined via a written examination that will take place in the transition from Phase I to Phase II. This will identify the individual learner's ability to retain and apply critical thinking and knowledge of topics covered during PET. For the remainder of the course, evaluations will be performance exams identifying the learner's ability to execute the desired outcome given a scenario in which the procedures taught will be graded accordingly.

Performance Examination: There are two types of performance examinations; they are product and process examinations. Each of the two types of performance examinations are used to demonstrate proficiency of performance outcomes. Product examination is used to assess an outcome when only the final product or end result need be evaluated. Process examination is used to evaluate an outcome when both the end result and the process require assessment. Examples of Product Examinations include the knots exam, one-rope bridge, three-rope bridge, and any engineer reconnaissance task/mission. Examples of Process Examinations include any engineer reconnaissance task/mission, fell-standing timber operations, and the final exercise. For all examinations, learners will be thoroughly briefed on proficiency criteria, timelines, remediation, and the process of proficiency review boards. Facilitator demonstration and practical application will be allotted prior to any examination.

Written Examination: The written examination is designed to assess the learner's ability to retain the information given throughout the first phase of the course. Testable items will be based on terminal learning objectives and outcomes and tested in the form of an applicable scenario. The test consists of open-ended short answer questions, fill-in-the-blank, matching, and a few multiple-choice questions. The majority of the test consists of a learner entering the information given in their own words and defending their answer. This method has been determined to have had a positive effect on knowledge-retention, requires more dedicated study and understanding of terminal learning objectives and outcomes, and virtually eliminates the possibility of integrity violation during the conduct of the test. Individuals will be made aware of the date and conduct of the written examination at the beginning of the course. An eighty percent score must be achieved to pass the written examination. Learners who fail to pass the written examination will be allotted an additional attempt, given a new version of the test.

Demonstration of Course Proficiency: Learners achieve course completion criteria when all testable items are satisfied to include the written examination and all product and process-based performance examinations to demonstrate knowledge retention. All failures to demonstrate proficiency will be allotted additional time to remediate. Learners will be formally briefed prior to the conduct of any initial or remedial examination. Failure to demonstrate successful remediation of any examination will constitute an academic drop from the course.

5. AARs: Each learner will be assigned to a squad with a faculty advisor. Individual counseling is given by the faculty advisor to each learner on not only the learner's proficiency during a particular phase, but learners are also given journaling prompts to demonstrate learning and level of understanding of the course. A dedicated period will be given at the culmination of the course to assess the class's overall mastery of all knowledge, skills, and attitudes evaluated throughout the final exercise. The end of course survey provided by a representative from the academics section will allow for learners to give their unbiased feedback regarding the conduct of the course.

6. Schedule: (am/pm format by day with associated general outcomes).

Phase I:	PET	
TD-1		
AM	WELCOME ABOARD BRIEF/ IN PROCESSING.	ADMIN- 02/04
AM	MOUNTAIN SAFETY. Learners are able to identify/apply the considerations of safety while operating in a mountainous environment.	MW-001
АМ	PERSONAL COLD WEATHER CLOTHING AND EQUIPMENT. Learners are able to employ personal cold weather clothing/equipment to prevent environmental injuries, understanding the design principles of various cold weather clothing layers through application of the acronym VIP/COLD.	MW-010
AM	MOUNTAIN WARFIGHTING LOAD REQUIREMENTS. Learners are able to identify and apply specifics to packing a warfighting load in a mountainous environment.	MW-011
PM	IIF/ROPE ROOM ISSUE.	ADMIN- 05
РМ	ROPE MANAGEMENT. Learners are instructed on the conduct of the knots performance examination and introduced to the testable knots and their function/use.	MW-012
TD-2		
АМ	MOUNTAIN ENDURANCE TEST. Learners will complete a mountain endurance test: A ruck run of Mountain Leader Loop (~3.8 miles) in utilities w/ a 55 lb. dry pack, rock wall pull-ups, and a rope climb. The goal is 70 minutes or less for the movement, minimum of 11 pull-ups, and one rope climb. The score is a part of the learners overall G.P.A.	MW-032
PM	MOUNTAIN HEALTH AWARENESS. Learners are able to identify/apply considerations of mountain/high altitude and cold weather injuries.	MW-002
PM	MOUNTAIN WEATHER. Learners will be able to identify and recognize weather patterns that occur in a mountainous environment.	MW-004
PM	ROUTE SELECTION. An administrative time with route selection considerations provide the learners with an initial comprehension of mountain navigation/route selection.	ADMIN- 01
PM	ROPE MANAGENMENT. Learners will receive demonstration and practical application of knots, coils, and instruction for the following training day.	MW-012
Phase II:	Mobility	
TD-3		
АМ	MOVEMENT TO LEAVITT TRAINING AREA (LTA). Learners will conduct a class- paced ~5-kilometer movement from LBC to LTA using LTA trail. Coaching and mentoring by facilitators will take place on the move in mountainous terrain.	MW-032
AM	NEGOTIATE A RIVER OBSTACLE. Given a period of instruction, learners will conduct practical application of negotiating a river obstacle.	MW-033
PM	WATER PROCUREMENT. Learners are able to identify suitable methods to procure water, waterborne hazards, and methods for purification.	MW-130

РМ	ROPE MANAGEMENT/SKED. Learners will be given instruction on performance examination criteria for the SKED casualty litter and allotted practical application time.	MW-012
РМ	EVENING FIELD ROUTINE. Evening field routine will consist of learner's personal time to study, practice, journal, and receive individual counseling from facilitators as needed.	
TD-4	·	
AM	MORNING FIELD ROUTINE. Morning field routine will consist of learner's personal time to prepare their gear for the training day and receive journaling feedback.	
AM	ROPE MANAGEMENT. Learners will conduct practical application of knots, anchors, and SKED.	MW- 012/034
AM-PM	STEEP EARTH LANES. Learners will receive instruction and conduct practical application in establishing steep earth lanes to negotiate class 4 terrain for follow on forces.	MW-012
AM	SUMMER MOUNTAIN CASEVAC. Learners are instructed on specific considerations for evacuating casualties in a summer mountainous environment.	MW-031
PM	ROPE MANAGEMENT. Learners will conduct practical application of knots, anchors, and SKED.	MW- 012/034
РМ	EVENING FIELD ROUTINE. Evening field routine will consist of learner's personal time to study, practice, journal, and receive individual counseling from facilitators as needed.	
TD-5		
0 N 4	MORNING FIELD ROUTINE. Morning field routine will consist of learner's personal	
AM	time to prepare their gear for the training day and receive journaling feedback.	
AM	time to prepare their gear for the training day and receive journaling feedback. ROPE MANAGEMENT. Practical application of all rope management items.	MW- 012/034
AM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a	012/034
AM AM-PM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels.	012/034
AM AM-PM PM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels.	012/034
AM AM-PM PM TD-6	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE.	012/034
AM AM-PM PM TD-6 AM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE.	012/034 MW-012
AM AM-PM PM TD-6 AM AM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE. ROPE MANAGEMENT. Knots review.	012/034 MW-012 MW-034 XP-
AM AM-PM PM TD-6 AM AM AM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE. ROPE MANAGEMENT. Knots review. KNOTS EXAM. Knots Performance Exam. MECHANICAL ADVANTAGE. Learners receive a class on mechanical advantage and	012/034 MW-012 MW-034 XP- ROPES
AM AM-PM PM TD-6 AM AM AM AM PM PM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE. ROPE MANAGEMENT. Knots review. KNOTS EXAM. Knots Performance Exam. MECHANICAL ADVANTAGE. Learners receive a class on mechanical advantage and rope properties/rope theory. ONE-ROPE BRIDGE. Learners will receive a class/demonstration and opportunity for practical application of the one-rope bridge. ROPE MANAGEMENT. Practical application of all knots performance exam.	012/034 MW-012 MW-034 XP- ROPES MW-035
AM AM-PM PM TD-6 AM AM AM AM PM PM PM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE. MORNING FIELD ROUTINE. KNOTS EXAM. Knots Performance Exam. MECHANICAL ADVANTAGE. Learners receive a class on mechanical advantage and rope properties/rope theory. ONE-ROPE BRIDGE. Learners will receive a class/demonstration and opportunity for practical application of the one-rope bridge.	012/034 MW-012 MW-034 XP- ROPES MW-035 MW-036
AM AM-PM PM TD-6 AM AM AM AM PM PM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE. ROPE MANAGEMENT. Knots review. KNOTS EXAM. Knots Performance Exam. MECHANICAL ADVANTAGE. Learners receive a class on mechanical advantage and rope properties/rope theory. ONE-ROPE BRIDGE. Learners will receive a class/demonstration and opportunity for practical application of the one-rope bridge. ROPE MANAGEMENT. Practical application of all knots performance exam.	012/034 MW-012 MW-034 XP- ROPES MW-035 MW-036
AM AM-PM PM TD-6 AM AM AM AM PM PM PM	ROPE MANAGEMENT. Practical application of all rope management items. ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels. EVENING FIELD ROUTINE. MORNING FIELD ROUTINE. ROPE MANAGEMENT. Knots review. KNOTS EXAM. Knots Performance Exam. MECHANICAL ADVANTAGE. Learners receive a class on mechanical advantage and rope properties/rope theory. ONE-ROPE BRIDGE. Learners will receive a class/demonstration and opportunity for practical application of the one-rope bridge. ROPE MANAGEMENT. Practical application of all knots performance exam.	012/034 MW-012 MW-034 XP- ROPES MW-035 MW-036

		XP-
AM	KNOTS EXAM P2. Knots Performance Exam P2	ROPES
AM	TWO-ROPE BRIDGE. Practical application of Two-Rope Bridge.	MW-036
PM	GORGE CROSSING. Coached practical application of conducting a gorge crossing.	MW-012
PM	ROPE MANAGEMENT. Practical application of all Systems performance exam.	MW-012
PM	EVENING FIELD ROUTINE.	
TD-8		
AM	MORNING FIELD ROUTINE.	
AM	ROPE MANAGEMENT (RAPPELS). Deploy rope/rappels. Learners will complete a series of practical application rappels.	MW-012
AM	COMMUNICATION PRACTICAL APPLICATION. Learners will get instruction on using a PRC-160 as well as construction of field expedient antennas.	
PM	ROPE MANAGEMENT EXAM. Practical application of all Systems performance exam.	MW-012
PM	SKED AND ANCHOR EXAM. Sked and anchors performance examination	XP- ROPES
PM	SUMMER MOUNTAIN CASEVAC. An event will take place to assess the learners' abilities to evacuate a casualty given a scenario. Upon completion, learners will be able to identify and apply terminal learning objectives and outcomes associated with mountain CASEVAC.	MW-031
PM	EVENING ROUTINE. Learners are allotted time to prepare gear and rest.	
Phase II	: Counter Mobility/Survivability	
TD-9		_
AM	PRE-ENVIRONMENTAL TEST. PET written examination.	XW-01
AM	SKED AND ANCHOR EXAM P2. Sked and anchors performance examination.	XP- ROPES
PM	CHAINSAW OPERATIONS AND MAINTENANCE. Learners receive a class on chainsaw operation, maintenance, and tree felling.	MW-363
PM	MOUNTAIN/COLD WEATHER (M/CW) ENGINEER CONSIDERATIONS (OBSTACLE INTEGRATION PLANNING). Learners receive class and Tactical Decision Game (TDG) covering obstacle integration in a snow-covered, mountainous environment.	MW- 352/358
PM	FIELD FORTIFICATION. Learners are able to construct effective defensive positions and employ force protection considerations in a snow-covered environment.	MW-107
РМ	CW DEMOLITIONS CONSIDERATIONS. Learners receive instructions on application and considerations of employment of military demolitions in a CW environment.	MW-361
PM	EVENING ROUTINE. Faculty advisor time.	
TD-10		
AM	PRE-ENVIRONMENTAL TEST RETEST. PET written examination retest.	XW-01
AM	ALL SYSTEMS P3. Learners will retest with academic section on all rope systems.	XP- ROPE
	ALL SYSTEMS P3. Learners will retest with academic section on all rope systems. ADMIN MOVEMENT TO LZ DODO. Administrative movement to LZ DODO.	

PM	ROPE MANAGEMENT. Practical application of 1 Rope Bridge.	MW-012
PM	EVENING FIELD ROUTINE.	
TD-11		
AM	MORNING FIELD ROUTINE.	
AM	CHAINSAW OPERATIONS. Demonstration and practical application of chainsaw operations.	MW-363
AM-PM	ENGINEER CONSIDERATIONS (ROUTE/AREA RECON). Learners conduct engineer reconnaissance during a movement to an objective (~2 km).	MW-352
PM	EVENING FIELD ROUTINE.	
TD-12		
AM	MORNING FIELD ROUTINE.	
AM	CHAINSAW OPERATIONS. Demonstration and practical application of chainsaw operations.	MW-363
PM	ENGINEER CONSIDERATIONS (GAP/RIVER). Learners will conduct engineer reconnaissance on a gap/river (~2 km).	MW-352
PM	EVENING FIELD ROUTINE.	
TD-13		
AM	MORNING FIELD ROUTINE.	
AM	CHAINSAW OPERATIONS. Demonstration and practical application of chainsaw operations.	MW-363
PM	MOVEMENT TO SILVER SUMMIT JUNCTION. Learners conduct a foot movement applying all skills learned to this point to negotiate mountainous terrain.	MW-032
PM	EVENING FIELD ROUTINE.	
TD-14		•
AM	MORNING FIELD ROUTINE.	
AM	ONE-ROPE BRIDGE. Learners will be allotted time to conduct practical application before examination on 1 rope bridge.	MW-036
PM	ONE-ROPE BRIDGE. Learners conduct a performance examination on the 1 rope bridge over a live gap.	MW-036
PM	EVENING FIELD ROUTINE.	
TD-15		
AM	MORNING FIELD ROUTINE.	
AM	THREE-ROPE BRIDGE. Learners receive class and demonstration of three-rope bridge installation.	MW-351
PM	ONE-ROPE BRIDGE P2. Learners conduct a performance examination retest on the 1 rope bridge over a live gap.	MW-036
PM	EVENING FIELD ROUTINE.	
TD-16		
AM	MORNING FIELD ROUTINE.	

AM	MORNING ROUTINE.	
A-DAY 2	Out Processing	
PM	VEHICLE MOVEMENT TO MWTC. Administrative movement to MWTC.	ADMIN- 01
AM	SUBTERRANEAN RECONNAISSANCE . Learners will receive a class and practical application on instruments and equipment used to conduct subterranean reconnaissance.	MW-353
AM	MORNING FIELD ROUTINE.	
TD-21		
PM	EVENING FIELD ROUTINE.	
PM	SUBTERRANEAN RESCUE. Learners will receive a fragmentary order and be tasked to complete a subterranean rescue.	MW-366
PM	MAINTAIN SUB-T COMPLEX. Learners will conduct practical application covering maintaining a sub-t complex.	MW-353
PM	SUBTERRANEAN ORIENTATION. Learners will receive orientation to subterranean environment.	MW-365
AM	VEHICLE MOVEMENT TO STAR OF THE WEST MINE. Administrative movement to subterranean (Sub-T) venue.	ADMIN- 01
TD-20		
Phase V:	Subterranean Operations	
AM-PM	FEX.	
TD 18-19	I	
AM-PM	FEX PREPARATION. Learners will be allotted time to prepare for FEX and issue order.	
A-Day 1		
Phase IV	: FEX	
PM	EVENING ROUTINE.	
PM	FEX OPERATIONS ORDER. Learners will receive the final exercise operations order and will be allotted time for preparation, RFI/RFS.	
PM	SUMMER MOUNTAIN CASEVAC. An event will take place to assess the learners' abilities to evacuate a casualty given a scenario. Upon completion, learners will be able to identify and apply terminal learning objectives and outcomes associated with mountain CASEVAC.	MW-031
AM	MORNING FIELD ROUTINE.	
TD-17		- -
PM	EVENING FIELD ROUTINE.	
PM	SUSPENSION TRAVERSE. Learners receive class and demonstration of system construction to negotiate horizontal obstacle/class 3 and 4 terrain.	MW-039
AM	ENGINEER RECONAISSANCE EVALUATION. Zone reconnaissance conducted near Silver Summit Junction (~4 km).	MW-352

AM	IIF/ROPE ROOM DE-ISSUE. Learners will return all issued gear.				
AM	END OF COURSE SURVEY. Learners administered End of Course Survey.				
AM	S-1 OUT-PROCESSING/ORDERS. Learners receive endorsement orders back to their units.	ADMIN- 03			
PM	GRADUATION PRACTICE. Learners will conduct Graduation practice.				
PM	FIELD DAY. Learners conduct field day of squad bay.				
A-DAY 3	Graduation				
AM	GRADUATION. Learners graduate.				
AM	TRANSIT TO RENO-TAHOE INT'L AIRPORT. Learners will receive transport to RNO to return to home station.	ADMIN- 02			

7. Mandatory Readings/Pre-Course Assignments:

"ATP 3-34.81/MCRP 3-34.3 Engineer Reconnaissance." *Marines.mil - Official Website of the United States Marine Corps*, Mar. 2016, <u>Chapter 1 (army.mil)</u>

8. Recommended Readings:

Richmond, Melvin. "Combat Operations in Mountainous Terrain-Are United States Army Light Infantry Divisions Preparing Properly" School of Advance Military Studies, U.S. Army Command and General Staff College. 1987.

MCWP 3-34 Engineer Operations, Chapter 7 Operational Situations and Environments. <u>USMC Doctrine - Home (sharepoint-mil.us)</u> Keyword: Engineer Operations

Govan, Thomas P. *"Training for Mountain and Winter Warfare-Army Ground Forces Study No.* 23." U.S. Army c 1946. <u>www.history.army.mil/books/aqf/aqf23.htm</u>

"Mountain Warfare–The Need for Specialized Training" by Major Muhammad Asim Malik, Pakistan Army. <u>https://smallwarsjournal.com/documents/malik.pdf</u>

		Summer	Mountain Engineer Course Gear List		
REQUIRED ADMIN			Hygiene Kit		
Reporting Orders	1		Item	QTY	Note
Command Screening Checklist	1		Tooth Brush	1	11010
Identification Card and DOG TAGS	1		Tooth Paste	1	
Identification Gard and DOG TAGE	<u> </u>		Floss	1	
			Razor w/Extra Blades	1	
Gear and Equipment	_		Shaving Cream	1	
Item	QTY	Note	*Chapstick	2	
USMC Pack w/WP liner	1	Note	*Sunscreen	1	
Assault Pack w/WP liner	1		Towel	2	I
Sleeping Bag - Tan	1		Shower Shoes	1	
Sleeping Bag - Black	1			<u> </u>	
Bivy Sack	1		MISC		
				QTY	Nata
ISO Mat	1		Item		
MARPAT Tarp	1		Notebook	1	For the Classroom
Poncho Liner	1		*Write-in-the-rain	1	For The Field
Canteen/Nalgene	2		Pen	2	
Canteen/Nalgene Carrier Canteen/Nalgene Cup	2		Pencil Highlighter	2	
	1		Highlighter	1	
Hydration Bladder - 3Liter Hydration Carrier	1		*Map Pen Set w/Eraser Pen *Protractor	1	
IFAK	1		Combination Lock	2	
	1		Proper Civilian Attire	-	
Flak *Chest Rig/LBV/Belt with Mag pouches	1			1	
Chest Rig/LBV/Beit with Mag pouches			*Eye Protection w/Clear and Dark Lenses *Red Headlamp W/ Batteries	1	
Uniform Items			*Knife or Multi-tool	1	
	0.77	Nete			
Item	QTY		*550 Cord	50ft	
Utilities - MARPAT Woodland	2	No FROG	Reflective Belt	1	
GoreTex Top/Bottom - MARPAT Woodland Garrison Cover - MARPAT Woodland	1		Laundry Bag *Signaling device (day/night)	1	
Boonie Cover - MARPAT Woodland	1		Personal Electronic Devices (Laptop, Tablet, Cell Phone)	-	ex:whistle or mirror For Electronic Publications
	6		Personal Electronic Devices (Laptop, Tablet, Cell Phone)	_	For Electronic Publications
Skivvie Shirt Underwear	6		Weenene and Ortice		
-			Weapons and Optics	QTY	Note
Socks, Brown, Pair	6	Recommend Wool	Item		Note
Socks, White, Pair	4		NVG w/ SL3	1	
USMC Boots	2		*Compass	1	
PolyPro Top/Bottom, Set	2				
Grid Fleece Top/Bottom, Set	1				
WindPro Fleece, Cold Weather	1				
ECW (Happy) Parka	-	MCMWTC IIF	Notes: Items with "*" are typically forgotten by students and ar	o high	ly important and NOT
ECW (Happy) Trousers	1	MCMWTC IIF	OPTIONAL Flaks are only required for winter courses. IIF will		
ECW (Happy) Booties	1	MCMWTC IIF			
ECW Mittens (Outdoor Research)	1	MCMWTC IIF	not been issued from your parent unit IIF. A letter of trans	mittal	should be brought with
Neck Gaiter	1		your optic.		
*Fleece Cap	1				
Finger Gloves, Insulated	1	MCMWTC IIF			
Contact Gloves, (Non-Cotton)	2	MCMWTC IIF			
3/4 Gaiters (Outdoor Research)	1	MCMWTC IIF			
Balaclava	1				
USMC Running Suit/Sweats	1				
PT Shorts	1				
PT Shoes	1				

For all MWTC Formal Schools

<u>Purpose</u>: To ensure Marines selected to attend Mountain Warfare Training Center courses are fully qualified.

Information: Schools are not screening institutions. In order to preclude Marines from being turned away upon arrival, it is necessary that parent commands ensure their Marines satisfy enrollment prerequisites set forth in this checklist. A failure to satisfy any of the prerequisites on the checklist disqualifies a Marine from attending the course.

<u>Action</u>: One copy will be turned in to the Course Chief with the Marine's orders on TD-1 of the course.

LEARNER NAME (LAST, FIRST, MI)	
RANK/GRADE:	EDIPI:
UNIT:	
COURSE TITLE:	COURSE NUMBER:

	PREREQUISITES	YES/ NO	REMARKS
1	Appropriate grade and MOS.		See Course TPD on MCTIMS.
2	Learners must have 12 months remaining on service contract.		
3	There are no existing family or financial hardships that would preclude this individual from completing the course.		
4	Possess appropriate field uniforms and equipment for the course per the learner gear list for the course.		
5	Meets height and weight standards per MCO 6110.3A w/Ch-3		

6	Medically qualified to participate in a demanding physical training program at high altitude and cold weather (no previous frostbite/cold weather injuries), and capable of handling live ammunition and firearms. In full duty status. Medical Officer, Nurse, or Corpsman signature:	
7	Learner must be physically capable of participation in a progressive, demanding physical training program at high altitude through mountainous terrain; a First-Class PFT score (or service equivalent) at home station within 30 days of the course convening is required to attend all MCMWTC courses. Date last PFT: Score last PFT:	
8	Proficient in Land Navigation skills.	
9	Contact Course Chief to give sizes for gear issue. (If required)	Page 4 for contact numbers.
10	The individual is aware that he/she is required to turn in a copy of this checklist on T-1 of the course.	

Company 1stSgt	PHONE	SIGNATURE	DATE
Company Commander	PHONE	SIGNATURE	DATE