



DEPARTMENT OF THE ARMY
NORTHERN WARFARE TRAINING CENTER
1060 GAFFNEY ROAD #9900
FORT WAINWRIGHT, ALASKA 99703-9900

APVR-WNW

16 May 2011

MEMORANDUM FOR RECORD

SUBJECT: Arctic Light Individual Training Program (ALIT) Course Management Plan (CMP)

1. Introduction. ALIT is the United States Army Alaska's Cold Weather Indoctrination (CWI) program. USARAK Soldiers live, work, and play in one of the harshest environments in the world. USARAK Soldiers must possess the necessary skills to train to go to war in this demanding environment, despite these conditions. All leaders in USARAK have the inherent responsibility to prepare themselves and their Soldiers, both mentally and physically, to operate in the cold weather environment. The Arctic Light Individual Training (ALIT) program gives all Soldiers, regardless of their job, the foundation to successfully work and train in the environmental conditions typical of Alaska.

a. This course management plan provides unit leaders and trainers with the information required to conduct the Arctic Light Individual Training Program (ALIT).

b. This CMP is approved by the Commander, United States Army Northern Warfare Training Center and must be used when providing education, training and evaluation of this course. Provide any feedback to the course manager on the quality of the instruction, products and/or materials provided:

Commander USANWTC
ATTN: Training Administrator
1063 Apple Street, Building 1063
Ft. Wainwright, Alaska 99703-9900
907-353-1165

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3. ALIT.

a. **Course Purpose.** To train all Soldiers, regardless of job function, in the skills required to successfully train and operate in a cold, snow-covered environment. Attendees will gain confidence in their cold weather clothing and equipment and their ability to care for themselves in the cold weather environment.

b. **Course Scope.** Emphasis is placed on developing the:

- (1) ability to prevent, identify and treat cold weather injuries.
- (2) knowledge of the effects of cold on vehicles and weapons.
- (3) ability to operate and maintain vehicles and weapons in the cold weather.
- (4) ability to move over snow covered terrain using snowshoes.
- (5) ability to safely use Army approved shelter and heaters.
- (6) ability to survive in temperatures below 10° F with only issued cold weather clothing and equipment.
- (7) ability to apply the composite risk management process to cold weather training and operations.

c. **Course Length.** ALIT typically takes place over three days. A recommended ALIT training schedule is provided in Attachment 1. A recommended packing list is provided in Attachment 2. A recommended list of equipment and resources required for the training is in Attachment 4.

d. **Course Structure.** ALIT consists of:

(1) Cold Weather Indoctrination I (CWI I). CWI I is taught year round. CWI I is classroom and basic skills instruction designed to introduce Soldiers to tactics, techniques and procedures for operating in the cold weather environment.

(2) Cold Weather Indoctrination II (CWI II). CWI II is taught during the winter months (normally 01 October through 01 May). CWI II is field instruction designed to give Soldiers experience and confidence working in the cold weather environment using equipment and clothing issued by the Army. This training must take place when the temperatures are 10 degrees Fahrenheit or colder. The intent of this temperature rating is to train Soldiers under the conditions that allow them to gain confidence in their equipment. Commanders will make every effort to meet this intent. Soldiers must spend two nights in the field:

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(a) Night one: Soldiers bivouac in the heated shelter they typically use in the field (e.g. 10 man Arctic tent and Space Heater Arctic).

(b) Night two: Soldiers bivouac in an improvised shelter using only issued clothing and sleeping bag. No external sources of heat (stoves) will be used for warming except in emergencies. A warming shelter must be available for this training.

(3) Table 1 lists the lesson plans that are used to conduct ALIT. Required lessons are in bold. These lessons can be found in the ALIT student handout at <http://www.wainwright.army.mil/nwtc/alit.htm> . This is the same handout issued to students in the CWLC and CWOC.

	Subject Area	Page Number
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699-8013	Cold Weather Injury Prevention and Treatment	53
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(4) Units may add training to the ALIT program that is specific to individual job functions (e.g. a unit may use a different shelter/stove system in the field or may want to train aircraft refueling procedures in the cold weather environment). Trainers should develop their own lesson plans based upon appropriate Army doctrine, technical manuals or equipment instruction manuals.

e. ALIT trainers must be graduates of the Cold Weather Leaders Course (CWLC) or the NWTC Cold Weather Instructor Qualification Course (CWIQC).

f. ALIT is an annual training requirement for all Soldiers.

(1) All new arrivals, both enlisted and officer will complete CWI I before participating in any field exercise and CWI I and II before participating in a field exercise during the winter months (01 October through 01 May).

NOTE: It is acceptable to incorporate ALIT/CWI II into a field training exercise. However the focus must be on ALIT related tasks and meeting the ALIT course scope and purpose. For example, plan ALIT for October/November on fixed ranges and/or in local training areas. DO NOT plan ALIT for a January jump onto Donnelly DZ followed by an eight kilometer foot march to a live fire exercise.

(2) Units are required to train Soldiers in CWI I and II annually. Soldiers that have attended a CWOC or CWLC in the last 12 months, meet ALIT training requirements. Arctic survival school is **not** a substitute for ALIT training.

(3) Host units must ensure that units attached for training, but not stationed in Alaska, receive ALIT instruction before field training where temperatures drop below 10 degrees Fahrenheit.

e. Units provide a memorandum that lists the training conducted during ALIT. Maintain a copy of this memorandum in Soldier training records. This memorandum must be signed by the commander. A sample memorandum is provided at Attachment 4.

f. Upon completion of training, the Soldier's DA 348 should reflect licensing on appropriate stove(s) (e.g. SHA, H-45, SHC, SHS) or any other special equipment for cold weather that Soldier's were licensed on (e.g. SUSV, plows, snow machines).

4. Ski and snowshoe training.

a. Ski and snowshoe training provide unit commanders with an alternate means of moving troops in a snow covered field environment, provide an alternate means of aerobic physical training during the winter months and allow soldiers to develop confidence in their equipment and their ability to operate in the cold weather environment.

b. USARAK 350-1, Chapter 3-6e, gives specific guidance on conduct of snowshoe or ski PT requirements. Additional guidance is provided in USARAK Pamphlet 385-4, Risk Management

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for Cold Weather Operations and USARAK Pamphlet 600-2. Graduates of the NWTC CWLC receive ski and snowshoe training that will allow them to develop a program at the unit level.

5. References. The publications listed below are key publications to be used in conjunction with the course management plan.

- a. ATTP 3-97.11 Cold Weather Operations
- b. FM 3-97.6, Mountain Operations
- c. FM 3-97.61, Military Mountaineering
- d. TB Med 508, Prevention and Management of Cold Weather Injuries
- e. USARAK Pamphlet 600-2 (Blue Book), United States Army Alaska Soldiers' Handbook and Standards Guide
- f. USARAK Pamphlet 385-2, Safety –Exercise Handbook
- g. USARAK Pamphlet 385-4, Risk Management for Cold Weather Operations

6. Point of Contact for this course is the NWTC Training Administrator at 907-353-1165 or felicisimo.madarang@us.army.mil .

//Original Signed//
GARY P. MCDONALD
MAJ, AR
Commanding

WEEK		SAMPLE TRAINING SCHEDULE					PREPARATION DATE	
EFFECTIVE PERIOD OF SCHEDULE						UNIT		
FROM		THRU						
DATE	TIME	SUBUNIT	MISSION	TRAINERS	LOCATION	UNIFORM	NOTES / REFERENCES	
DAY 1	0630	ALIT	Formation	1SG	UNIT	DUTY 1		
	0630-0730	ALIT	Cold Weather PT Policy Review/ALIT LAYOUT	ALL ALIT CADRE	UNIT	DUTY 1	CG/COFS POLICY LETTER	
	0900-0930	ALIT	Introduction to ALIT	NCOIC	CLASSROOM	DUTY 1	#0-08: COLD WEATHER	
	0930-1030	ALIT	Characteristics of Cold Regions (Terrain and Weather)	ALL ALIT CADRE	CLASSROOM	DUTY 1	PHYSICAL TRAINING POLICY	
	1030-1200	ALIT	Cold Weather Injury Prevention and Treatment	ALL ALIT CADRE	CLASSROOM	DUTY 1		
	1200-1300	ALIT	Lunch					
	1300-1400	ALIT	Cold Weather Environmental Injuries	ALL ALIT CADRE	CLASSROOM	DUTY 1		
	1400-1500	ALIT	Cold Weather Risk Management	ALL ALIT CADRE	CLASSROOM	DUTY 1	USARAK PAM 385-4	
	1500-1800	ALIT	Tent and Stove Drill	ALL ALIT CADRE	OUTDOORS	DUTY 3		
	1800-1900	ALIT	DINNER/PERSONAL HYGIENE	ALL ALIT CADRE	OUTDOORS	DUTY 3	MCW DINNER	
	1900-2000	ALIT	Fit Snowshoes / Snowshoeing Techniques	ALL ALIT CADRE	OUTDOORS	DUTY 3		
	1930-2200	ALIT	Training on other Army Approved Heaters	ALL ALIT CADRE	OUTDOORS	DUTY 3	ALIT CADRE MUST BE CWLC GRADUATES	
	2200-2400	ALIT	Patrol Base Considerations/ Heated Shelter Bivouac	ALL ALIT CADRE	OUTDOORS	DUTY 3	STUDENT TO INSTRUCTOR RATIO MUST NOT EXCEED 9:1	
DAY 2	0001-0500	ALIT	Heated Shelter Bivouac	ALL ALIT CADRE	OUTDOORS	DUTY 3	MCW BREAKFAST	
	0500-0630	ALIT	First Call/Cold Weather Injury Checks/Strike Tent	ALL ALIT CADRE	OUTDOORS	DUTY 2	MEDICS	
	0630-0800	ALIT	Cold Weather PT	ALL ALIT CADRR	OUTDOORS	DUTY 3		
	0800-0900	ALIT	Personal hygiene	ALL ALIT CADRE		DUTY 1		
	0900-1000	ALIT	Planning Considerations for Over Snow Movement	ALL ALIT CADRE	CLASSROOM	DUTY 1		
	1000-1200	ALIT	Cold Weather Vehicle and Weapons Maintenance	ALL ALIT CADRE	CLASSROOM	DUTY 1		
	1200-1300	ALIT	Lunch	ALL ALIT CADRE		DUTY 3	HEATED SHELTER AVAILABLE FOR REMAINDER OF TRAINING	
	1300-1430	ALIT	Individual Camouflage and Firing Techniques	ALL ALIT CADRE	CLASSROOM	DUTY 2		
	1430-1800	ALIT	Construct an Improvised Shelter	ALL ALIT CADRE	OUTDOORS	DUTY 3	MCW DINNER	
	1800-1900	ALIT	Dinner / Personal Hygiene	ALL ALIT CADRE		DUTY 3		
	1900-2200	ALIT	Stove Licensing	ALL ALIT CADRE	OUTDOORS	DUTY 3		
	2200-2400			Unheated Shelter Bivouac	ALL ALIT CADRE	OUTDOORS	DUTY 3	

WEEK		SAMPLE TRAINING SCHEDULE					PREPARATION DATE	
EFFECTIVE PERIOD OF SCHEDULE						UNIT		
FROM		THRU						
DATE	TIME	SUBUNIT	MISSION	TRAINERS	LOCATION	UNIFORM	NOTES / REFERENCES	
DAY 3	0001-0500	ALIT	Unheated shelter bivouac	ALL ALIT CADRE	OUTDOORS	DUTY 3	MCW Breakfast	
	0500-0630	ALIT	First Call/Break down/CWI checks/ prep for movement	ALL ALIT CADRE	OUTDOORS	DUTY 3	MEDICS	
	0630-1130	ALIT	5k snowshoe march	ALL ALIT CADRE	OUTDOORS	DUTY 3	USARAK 350-1	
	1130-1300	ALIT	Personal Hygiene/Lunch	ALL ALIT CADRE		DUTY 1		
	1300-1500	ALIT	Recovery/ALIT Graduation – ALIT memo in Soldier records / Stove annotated on DA Form 348	NCOIC/ALL ALIT CADRE	UNIT	DUTY 1		

Winter Uniform SOP (01 Oct – 01 May)	
DUTY 1	ACU's, Issued Boots, Balaclava or Watch Cap, Contact Gloves, Polypropylene As Required
DUTY 2	Common to all: LBV or Body Armor, Helmet, Weapon, Knife, Lighter, Goggles, Sunglasses
	Generation 1 or 2 ECWCS: Lightweight Polypropylene Undershirt and Drawers with Heavyweight Polypropylene Shirt and Drawers (as required) OR Lightweight Undershirt and Drawers with Midweight Shirt and Drawers (as required), Wool Socks, GORTEX Parka and Trousers With Suspenders, Vapor Barrier Boots, Balaclava, Contact Gloves, Trigger Finger Mittens, Arctic Mittens
	Generation 3 ECWCS (Seven Layer System): Lightweight Undershirt and Drawers, Midweight Shirt and Drawers (as required), Wool Socks, Soft Shell Jacket and Trousers, Vapor Barrier Boots, Balaclava, Contact Gloves, Trigger Finger Mittens, Arctic Mittens
DUTY 3	Same as Duty 2 with Ruck
RUCK	Common to all: Sleeping Bag, Polypad, Waterproof Bag, Poncho liner and Poncho, 550 Cord, Change of wicking layer, 4 pair of socks, headlamp or flashlight, spare TF mitten inserts, Arctic Mittens if not worn, Spare Batteries
	Generation 1 or 2 ECWCS: Black Fleece Jacket and Bibs
	Generation 3 ECWCS (seven Layer System): Green Fleece Jacket, Puffy Jacket and Pants

Attachment 2: Packing List

ALIT Packing List			
Required Items			
Qty	Item Description	Qty	Item Description
1	BDU's or ACU's(Complete)	1	Bag, Sleeping MSS or Type II Extreme Cold
1	Belt, Trouser, Web	1	Mat, Sleeping (Poly Pad recommended)
2	Drawers, Cotton	1	Frame, Field Pack
3	Undershirts, Cotton, Brown	1	Field Pack, ALICE (Large)
6 pr	Socks, Wool, Black or Olive Drab	1	Canteen 2 Qt w/ Carrier
2 pr	Socks, Dress, Black Nylon	2	Canteen, 1 Qt w/ Cup and Carrier
1	ECWCS Jacket (Goretex)	1	E-Tool w/ Carrier
1	ECWCS Trousers (Goretex)	2	Poncho
2	Drawers, Polypropylene	1	Liner, Poncho
2	Undershirt, Polypropylene	1	Kevlar w/ Camo Cover
1	Suspenders, Trousers	1	LBV (worn IAW your Unit's SOP)
1	Shirt, Fiber Pile (Polar Fleece or Bear Suit Top)	100 ft	Cord, Nylon (550)
1	Trousers, Fiber Pile (Polar Fleece or Bear Suit Top)	2	Towels
1	Liner, Field Jacket		Personal Hygiene Articles
1 pr	Boots, Intermediate Cold Weather	1	Tube of Chapstick
1 pr	Boots, Vapor Barrier, White		Prescription Medications**
2	Facemask, Balaclava		Prescription Eyeglasses**
1	Neck Gaiter, Brown		Sunglasses (inexpensive/durable)
1	Ruff Parka	1	ID Tags w/ Chain
1 pr	Gloves, Cold Weather (Black)	1	ID Card
2 pr	Inserts, Glove, Cold Weather (Gortex)	2	Pocket Knife
1 pr	Mitten Shells, Trigger Finger	1	Cigarette Lighter or Waterproof Matches
2 pr	Mitten Inserts, Trigger Finger	1	Flashlight w/ extra Batteries (a headlamp is the best option)
1 pr	Mitten, Arctic	1	Boot care kit
1	Overwhites (Kevlar Cover, Top, Bottom)		
1	Bag, Barracks		
1	Bag, Duffel		
1	Waterproof Bag		

Optional Items (Highly Encouraged)			
Qty	Item Description	Qty	Item Description
1	Army Physical Training Uniform (Complete)	1	Ski Goggles w/ Tinted Double-pane Lens
1 pr	Camp Booties, Insulated	1	Drawers, Polypropylene, Lightweight
1 pr	MSR Snow Shoes (If Unit Issued)	1	Undershirt, Polypropylene, Lightweight
2	Compression Sacks	4 pr	Socks, Polypropylene
1 pr	Liners, Glove, Polypropylene	1	Foot Powder
1	Sewing Kit		
**	As Required		



DEPARTMENT OF THE ARMY

Unit Name

Unit Address

FORT WAINWRIGHT, ALASKA 99703-9900

Unit Office Symbol

DATE

MEMORANDUM FOR RECORD

SUBJECT: ALIT Record of Training

1. SPC Dude, Daniel, 000-00-0000 has successfully completed training on the following lessons/equipment:

<i>Lesson/Equipment</i>	<i>DATE</i>
<i>Licensed on Space Heater Arctic (as required)</i>	
<i>Licensed on H-45 (as required)</i>	
<i>Licensed on Army Approved Heater (List Type)</i>	
<i>Bivouac in heated shelter (overnight)</i>	
<i>Bivouac in an improvised shelter (overnight)</i>	
<i>Characteristics of Cold Regions (Terrain and Weather)</i>	
<i>Cold Weather Injury Prevention and Treatment</i>	
<i>Cold Weather and Mountain Environmental Injury Prevention and Treatment</i>	
<i>Cold Weather Risk Management</i>	
<i>Snowshoeing</i>	
<i>Planning Considerations for Over Snow Movement</i>	
<i>Effects of Cold on Military Equipment</i>	
<i>Tent and Stove Drill</i>	
<i>Individual Camouflage</i>	
<i>Cold Weather Vehicle Maintenance</i>	
<i>Weapons Maintenance in Cold Weather</i>	
<i>Individual Camouflage in a Snow Covered Environment</i>	
<i>Cold Weather Firing Techniques</i>	
<i>Cold Regions Patrol Base Considerations</i>	
<i>5 K snowshoe march</i>	

- 2. The bivouacs were conducted at a low temperature of _____ on _____.
- 3. Add above listed stoves to the soldiers DD 348.
- 4. POC is the undersigned at 353-####.

DUDLEY X. SMITH
SSG, USA
ALIT NCOIC

Attachment 4: Equipment and Resources Recommended:

Item	Number/Size	Remarks
Classroom	1 to accommodate students	1 instructor per 25 students for classroom instruction
Projection Screen	1	
Multimedia Computer and projector	1	Download all lessons and PowerPoint presentations at http://www.wainwright.army.mil/nwtc/default.htm
USARAK Pamphlet 385-4	1 per student	http://www.usarak.army.mil/publications/385Series_Safety.htm
Snowshoes w/ bindings	1 pair per student	MSR military w/ 8 inch flotation tails or Military Magnesium snowshoes w/ bindings
Scow-sled, 200 lbs. capacity (ahkio)	1 per nine students	
Tent, ten-man Arctic, with telescoping pole, pole board, and 12 tent pins	1 per nine students	Cut two 6 foot door poles per tent
SHA with stove board and tripod	1 per nine students	
Five gallon fuel can	1 per nine students	
Five gallon water can	1 per nine students	
D-handle coal shovels	2 per nine students	
Machetes (with sheath)	2 per nine students	
Squad cook sets	2 per nine students	
Squad stoves	2 per nine students	
Fuel bottles	2 per nine students	
Bow saw	1 per nine students	
Ax	1 per nine students	
Hammers 2 lb.	2 per nine students	
120 ft. rope	1 per nine students	
Trace, ahkio pulling, 9 ft	3 per nine students	
Tow Rope 27 feet	1 per nine students	
Harnesses, ahkio towing	4 per nine students	
Fire extinguisher	1 per nine students	
Lantern, gasoline*, with case	1 per nine students	

H-45 Stove w/ 5 gallon fuel can and tripod	1 per nine students	
Improvised shelter materials		Enough timber to construct thermal shelters
Meal, Cold Weather (MCW)	1 per student per meal	



DEPARTMENT OF THE ARMY
NORTHERN WARFARE TRAINING CENTER
1060 GAFFNEY ROAD #9900
FORT WAINWRIGHT, ALASKA 99703-9900

APVR-WNW

MEMORANDUM FOR: Student enrolled in Arctic Light Individual Training (ALIT)

SUBJECT: Student Evaluation Plan (SEP) for ALIT

1. Introduction. ALIT is the United States Army Alaska's Cold Weather Indoctrination (CWI) program. You live, work, and play in one of the harshest environments in the world. You must possess the necessary skills to train to go to war in this demanding environment, despite these conditions. The Arctic Light Individual Training (ALIT) program gives you, regardless of your job, the foundation to successfully work and train in the cold weather environment.

2. ALIT.

a. **Course Purpose.** To train all Soldiers, regardless of job function, in the skills required to successfully train and operate in a cold, snow-covered environment. Attendees will gain confidence in their cold weather clothing and equipment and their ability to care for themselves in the cold weather environment.

b. **Course Scope.** Emphasis is placed on developing the:

- (1) ability to prevent, identify and treat cold weather injuries.
- (2) knowledge of the effects of cold on vehicles and weapons.
- (3) ability to operate and maintain vehicles and weapons in the cold weather.
- (4) ability to move over snow covered terrain using snowshoes.
- (5) ability to safely use Army approved shelter and heaters.
- (6) ability to survive in temperatures below 10° F with only issued cold weather clothing and equipment.
- (7) ability to apply the composite risk management process to cold weather training and operations.

3. Testing. You will be expected to perform a number of practical exercises throughout this course. You will be evaluated on a GO/NO GO basis. The ALIT Skills Evaluation Guide (see Attachment 1) contains standards you must attain in order to graduate from the course. Not all tests offer re-tests.

4. Academic Retraining/Retesting: Retraining and retesting will be conducted during IAW the training schedule.

- a. If you fail a test, you will receive re-training from an ALIT instructor.
- b. After re-training is conducted, you will be re-tested.

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SUBJECT: ALIT SEP

5. Counseling:

a. Counseling is conducted to provide you with advice and guidance concerning improvement of your current or future performance. It is aimed at providing you positive guidance. Your instructors counsel you to praise and reward good performance, to develop teamwork, to inform you on how well you are performing, to assist you to reach required standards, to help you resolve personal problems, and to encourage and motivate you to set and work toward achieving personal and professional goals.

b. Formal and informal counseling will be conducted by the instructors when you are or appear to be having an academic or non-academic problem.

(1) Formal counseling will be provided when your academic standing falls to borderline failing status or if you fail to comply with standards of academic integrity and conduct. If you are formally counseled, a counseling form will be completed and you will be provided a copy.

(2) Informal counseling will be provided when an instructor believes it would benefit you or when you ask for assistance.

6. Testing out. You may not test out on any portion of this course.

7. POC this memorandum is _____.

Commander's signature block

ALIT SKILLS EVALUATION GUIDE

Name/Rank: _____ Unit: _____ Date: _____

Squad: _____ Instructor: _____ Class # _____

	SKILL EVALUATION	FIRST EVAL	INSTR INITIALS	RE- EVAL	INSTR INITIALS
1	Pitch an Arctic ten-man tent	GO NOGO		GO NOGO	
2	Set up a Space Heater Arctic (SHA)	GO NOGO		GO NOGO	
3	Light and Operate a Space Heater Arctic (SHA)	GO NOGO		GO NOGO	
4	Assemble & operate a squad stove	GO NOGO		GO NOGO	
5	Disassemble & pack a SHA	GO NOGO		GO NOGO	
6	Strike an arctic 10-man tent	GO NOGO		GO NOGO	
7	Pack an ahkio sled	GO NOGO		GO NOGO	
8	Use an H-45 stove (Assembly)	GO NOGO		GO NOGO	
9	Use an H-45 stove (Light and Operate)	GO NOGO		GO NOGO	
10	Use an H-45 stove (Shutdown and Disassemble)	GO NOGO		GO NOGO	
11	Utilize an improvised shelter (thermal shelter recommended 1 night)	GO NOGO		N/A	
13	Bivouac in an Arctic 10-man tent (1 night)	GO NOGO		N/A	
14	Move over snow on snowshoes (5K)	GO NOGO		N/A	

PASS FAIL

Instructor Signature _____

** Asterisk next to steps indicate "Critical Performance Measure"
Students must meet Critical Performance Measures in order to receive a "GO"*

Squad Evaluation					
ACTION	<i>Pitch an Arctic Ten-man tent</i> , Set up a Space Heater Arctic				
CONDITION	Given a serviceable Ahkio group, complete with the standard equipment load, and an area large enough to correctly set up the tent and stove group. This task will be performed by a squad/team of no less than 5 personnel and evaluated collectively.				
STANDARD	Squad: - set-up tent and readied stove for operation within 30 minutes. - met all critical performance measures IAW the student/instructor evaluation plan.				
REFERENCES	TM 10-8340-222-10 and TM 10-4520-261-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Dug snow to ground level or packed snow firmly.	GO NOGO		GO NOGO	
*2	Extended tent out. Positioned tent so that main door is at a 45 degree angle away from downwind.	GO NOGO		GO NOGO	
*3	Zipped both door entrances shut.	GO NOGO		GO NOGO	
*4	Extended all corner eave lines. Marked spots on the ground approximately 6 feet (two steps) from each corner of the tent. Drove tent pins on the mark. Pins angled slightly away from the tent.	GO NOGO		GO NOGO	
*5	Attached six corner eave lines to the pins but left them slack. Corner eave lines are in line with their corresponding seam of the tent.	GO NOGO		GO NOGO	
*6	Extended and locked center pole to between 6 and 8 feet. Placed the stud at the top of the pole through the hole in the perforated metal plate at the roof apex. Held the pole vertically and placed the pole board underneath the base of the pole.	GO NOGO		GO NOGO	
*7	Tightened the corner eave lines. Maintained vertical position of pole. Two Soldiers at opposite corner eave lines pulled at the same time to tighten. Continued using this process for the remainder of corner eave lines.	GO NOGO		GO NOGO	
*8	Attached the corner lines to the same tent pins as the corner eave lines. Corner eave lines and corner lines must be inline with their corresponding seam.	GO NOGO		GO NOGO	
*9	Marked spots approximately 6 feet from the four eave lines. Drove tent pins at these marks. Attached and tightened the four eave lines.	GO NOGO		GO NOGO	
*10	Anchored the two door eave lines. For each door, drove a tent pin approximately 6 feet from the tent. Held the door pole vertically about 3 feet from the tent door. Positioned a clove hitch about five feet up on the door pole. Secured and tightened the end of the line to the pin. Door height is approximately 4 feet.	GO NOGO		GO NOGO	
*11	Opened four ventilators.	GO NOGO		GO NOGO	
*12	Positioned fire extinguisher at the center pole.	GO NOGO		GO NOGO	

*13	Opened and secured stove pipe opening flaps in preparation for using a stove to heat the shelter.	GO NOGO		GO NOGO	
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	Squad Evaluation				
ACTION	Pitch an Arctic Ten-man tent; Set up a Space Heater Arctic (SHA)				
CONDITION	Given a serviceable Ahkio group, complete with the standard equipment load, and an area large enough to correctly set up the tent and stove group. This task will be performed by a squad/team of no less than 5 personnel and evaluated collectively.				
STANDARD	Squad: - set-up tent and readied stove for operation within 30 minutes. - met all critical performance measures IAW the student/instructor evaluation plan.				

REFERENCES	TM 10-8340-222-10 and TM 10-4520-261-12&P				
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	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
14*	Stove board placed on flat surface	GO NOGO		GO NOGO	
15*	Stove door facing main entrance	GO NOGO		GO NOGO	
16*	Rear door is reinstalled after removing stove parts from stove body.	GO NOGO		GO NOGO	
17*	For liquid fuels, solid fuel grate is removed and burner cover assembly is installed into the door frame (blocking the area behind the front door). Front door is closed.	GO NOGO		GO NOGO	
18*	For solid fuels, burner cover assembly is installed over the burner assembly opening and the solid fuel grate is installed with the 'legs' down.	GO NOGO		GO NOGO	
19*	Fuel flow control valve is fully seated on the heater body.	GO NOGO		GO NOGO	
20*	Fuel control outflow hose is properly connected to the fuel flow control valve.	GO NOGO		GO NOGO	
21*	Fuel supply hose is properly connected to the fuel flow control valve, fuel line is routed away from stove body.	GO NOGO		GO NOGO	
22*	Overflow hose is properly connected to the fuel flow control valve and routed outside of the tent along a down-slope and below the level of the fuel flow control valve.	GO NOGO		GO NOGO	
23*	Fuel flow control valve is in the "OFF" position.	GO NOGO		GO NOGO	
24*	Lowest part of inverted fuel can is between 2 and 3 feet above fuel flow control valve.	GO NOGO		GO NOGO	
25*	Lowest part of inverted fuel can is the fuel can adapter.	GO NOGO		GO NOGO	
26*	Drip interceptor loop within 1 foot of fuel can adapter.	GO NOGO		GO NOGO	
27*	Fuel can inverted and secured to tripod prior to lighting stove.	GO NOGO		GO NOGO	
28*	Stove pipes connected in sequence w/ seams aligned.	GO NOGO		GO NOGO	

29*	Stack cap assembly guy lines secured to tent from 3 separate, opposing points.	GO NOGO		GO NOGO	
30*	Stove pipe opening flaps rolled up and tied off away from stove pipes.	GO NOGO		GO NOGO	

		Individual evaluation			
ACTION	Light & Operate a Space Heater Arctic				
CONDITION	Given a SHA, set up and ready for operation, and liquid fuel. This task will be performed and graded individually.				
STANDARD	Stove must be lit and burning steady within 10 minutes. Met all critical performance measures IAW the student/instructor evaluation plan.				
REFERENCES	TM 10-8340-222-10 and TM 10-4520-261-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Fuel flow control valve is set in accordance with outside temperature.	GO NOGO		GO NOGO	
*2	Fuel ON/OFF control knob turned to ON and allow to prime for 2-5 minutes.	GO NOGO		GO NOGO	
*3	Priming cup filled using priming valve on the fuel supply hose.	GO NOGO		GO NOGO	
*4	Fuel from priming cup is poured into the bottom of burner.	GO NOGO		GO NOGO	
*5	Stove is ignited with a burning piece of paper or tissue tossed into bottom of the burner.	GO NOGO		GO NOGO	
*6	Lid assembly is closed.	GO NOGO		GO NOGO	
*7	As heater warms, flow adjustment knob is turned to adjust heat output.	GO NOGO		GO NOGO	
*8	Stove is not allowed to burn too hot (e.g. cherry red)	GO NOGO		GO NOGO	
*9	Fuel flow control valve must be turned "OFF" prior to changing fuel can	GO NOGO		GO NOGO	
*10	All tent occupants awake & prepared for emergency exit during refueling & re-lighting operations	GO NOGO		GO NOGO	
*11	Fire guard alert and monitoring fuel flow rate and adjusts as necessary, when stove is in operation	GO NOGO		GO NOGO	

		Individual evaluation			
ACTION	Assemble and Operate a Squad Stove				
CONDITION	Given the squad stove and the fuel bottle filled to the proper level with white gas, or other appropriate fuel. This task will be performed inside the ten-man tent, or outside in an area sheltered from the wind.				
STANDARD	The stove must be placed into operation within 5 minutes. Met all critical performance measures IAW the student/instructor evaluation plan.				
REFERENCES					
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Pump assembly inserted into fuel bottle & tightened snugly	GO NOGO		GO NOGO	
2	Heat reflector properly positioned on stove body	GO NOGO		GO NOGO	
3	Stove legs positioned properly into notches of burner housing	GO NOGO		GO NOGO	
4	Fuel line inserted into pump w/ gentle pressure & twisting motion	GO NOGO		GO NOGO	
*5	Fuel line catch arm secured to pump assembly at notch	GO NOGO		GO NOGO	
*6	Stove & fuel bottle placed on a level, non-flammable surface	GO NOGO		GO NOGO	

EVALUATION		Light the squad stove			
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
1	Fuel bottle pressurized with 5 to 15 pumps	GO NOGO		GO NOGO	
*2	Fuel valve opened - wick saturated (burner cup partially filled) with fuel	GO NOGO		GO NOGO	
3	Fuel valve turned "OFF" during lighting & warm-up	GO NOGO		GO NOGO	
*4	Wick lit; allowed to burn until flame begins to diminish & generator tube warms	GO NOGO		GO NOGO	
5	Valve opened & adjusted to desired setting (do not exceed 2 full turns)	GO NOGO		GO NOGO	
6	Additional 3 to 4 pumps added when necessary to maintain bottle pressure	GO NOGO		GO NOGO	

NOTE: Too much pressure in fuel bottle causes stove to function poorly w/ sporadic flame. Avoid over-pressuring the fuel bottle with too many pumps.

Squad Evaluation					
ACTION	Disassemble and Pack a Space Heater Arctic				
CONDITION	Given an arctic 10-man tent and SHA, properly set up with the stove in operation. This task will be performed by two individuals and evaluated collectively.				
STANDARD	The stove must be disassembled and packed so that all stove components fit inside the stove body with the stove door closed. All critical performance measures for the next this and the next two evaluations must be met within 30 minutes.				
REFERENCES	TM 10-8340-222-10 and TM 10-4520-261-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Fuel Flow Control Valve placed in the "OFF" position	GO NOGO		GO NOGO	
*2	Fuel can removed from tripod	GO NOGO		GO NOGO	
*3	Stove is allowed to cool.	GO NOGO		GO NOGO	
*4	Fuel lines are disconnected and purged of excess fuel	GO NOGO		GO NOGO	
*5	Fuel flow control valve is removed and purged of excess fuel; place valve in the "ON" position for storage	GO NOGO		GO NOGO	
*6	Stack cap assembly guy lines untied and stove pipes removed; stack cap guy lines are <i>daisy chained</i> together	GO NOGO		GO NOGO	
*7	Stove pipes nested in sequence with seams off-set	GO NOGO		GO NOGO	
*8	Gravity feed adapter removed; fuel can cap re-installed	GO NOGO		GO NOGO	
*9	Stove components are repacked IAW the TM; all components must fit in the stove body	GO NOGO		GO NOGO	

		Squad evaluation			
ACTION	Strike an arctic 10-man tent				
CONDITION	Given a 10-man arctic tent, properly set up with the stove removed, and the necessary tools for removing tent pins or other tent anchors.				
STANDARD	The tent must be folded for stowage in the ahkio sled so it is immediately ready for pitching. Tent lines must be managed so they do not become entangled.				
REFERENCES	TM 10-8340-222-10 and TM 10-4520-261-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
1	Packed all personal gear at least 30 minutes prior to striking the tent.	GO NOGO		GO NOGO	
2	No later than fifteen minutes prior to striking the tent, stove turned off and allowed to cool, and all personal gear placed outside of tent in an organized manner.	GO NOGO		GO NOGO	
3	Removed any tent group equipment and packed in ahkio.	GO NOGO		GO NOGO	
*4	Disassembled and packed stove when cool to touch.	GO NOGO		GO NOGO	
5	Removed, rolled and secured corner lines and eave lines. Pulled all eave line tent pins as this is done and placed tent pins in ahkio.	GO NOGO		GO NOGO	
*6	Zipped liner and tent doors fully closed.	GO NOGO		GO NOGO	
7	Removed tent pole and pole board. Collapsed pole and placed it and the pole board in the ahkio.	GO NOGO		GO NOGO	
8	Removed corner eave lines and fully extended each line. Removed remaining tent pins and placed them in the ahkio.	GO NOGO		GO NOGO	
9	Shook the tent to clear ice, snow and debris. Spread the tent out by pulling on the apex. Folded the tent accordion style.	GO NOGO		GO NOGO	
*10	<i>Daisy chained</i> the six corner eave lines together.	GO NOGO		GO NOGO	
11	Folded the tent in half lengthwise with the daisy chain folded inside.	GO NOGO		GO NOGO	
12	Placed the two shovels opposite one another in the center of tent. Folded the tent into thirds and placed it next to the ahkio.	GO NOGO		GO NOGO	
13	Removed any remaining equipment and/or trash from the tent site.	GO NOGO		GO NOGO	

		Squad evaluation			
ACTION	Pack an Ahkio Sled				
CONDITION	Given a properly folded 10-man arctic tent, SHA packed with all components, and remaining standard equipment and the ahkio sled.				
STANDARD	The ahkio must be packed so it has a low profile and the center of balance is low and to the rear. All critical performance measures must be met.				
REFERENCES					
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
1	Place tent pins in bottom center of ahkio with the heads opposite each other. Place hammers on floor of sled on either end of the tent pins, heads opposite one another.	GO NOGO		GO NOGO	
2	Place bow saw on top of tent pins.	GO NOGO		GO NOGO	
3	Place stove board on top of bow saw.	GO NOGO		GO NOGO	
4	Place fire extinguisher, center pole, axe, two MSR fuel bottles and machetes on either side of the stove board, along the sides of the sled, ensuring that the weight is distributed evenly.	GO NOGO		GO NOGO	
5	To the rear of the stove board, place fuel can and water can. Fuel can opening is up and to the rear and is double bagged with HAZMAT pads for transport. Water can opening is down and towards the front of the ahkio.	GO NOGO		GO NOGO	
6	Lantern (in case) is placed in front of stove board, perpendicular to the long axis of the sled. Two cook sets are placed in front of the lantern.	GO NOGO		GO NOGO	
7	Place repair kit (ammo can) in front of the lantern. Place squad stoves on the either side of the sled next to the cook sets.	GO NOGO		GO NOGO	
8	Place the pole board in front of the repair kit. Place the 120 foot rope, traces and harnesses on top of the pole board.	GO NOGO		GO NOGO	
9	Place SHA on top of and slightly to the rear of the stove board.	GO NOGO		GO NOGO	
10	Place the tent with shovels (so that the apex is toward the front of sled) on the SHA).	GO NOGO		GO NOGO	
11	Fold two canvas ends of ahkio sled over sled contents. Fold sides of canvas over sled contents.	GO NOGO		GO NOGO	
12	Place the tripod and door poles on top of canvas (field expedient poles only). The manufactured tripod and collapsible door poles should be secured inside the sled with the center pole. Secure the contents of sled with the lashing rope from rear to front.	GO NOGO		GO NOGO	

ACTION	Use an H-45 stove (Assembly)				
CONDITION	Given a serviceable H-45 and an area large enough to set up the stove				
STANDARD	Individual soldier: - Operated the H-45 IAW the Student/Instructor Evaluation Plan. - Met all critical performance measures IAW the Student/Instructor Evaluation Plan.				
REFERENCES	TM 10-4520-257-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Stove board placed on flat surface. If used in a tent with a floor the base is placed in a sand box or on bricks.	GO NOGO		GO NOGO	
*2	Stove components removed from body	GO NOGO		GO NOGO	
*3	Burner shell rotated so that pipe nipple aligns with the left side of door opening.	GO NOGO		GO NOGO	
*4	Burner shell assembly and adapter ring welded to top is level and fully engaged around the circumference of the heater body base.	GO NOGO		GO NOGO	
*5	Superheater and burner cap assemblies and high fire ring are all in place.	GO NOGO		GO NOGO	
*6	Fuel flow control valve is properly attached to the stove body.	GO NOGO		GO NOGO	
*7	Supply flow control hose assembly, flow control burner hose assembly and overflow hose assembly are properly routed and attached to the fuel flow control.	GO NOGO		GO NOGO	
*8	Fuel flow control is in the 'OFF' position.	GO NOGO		GO NOGO	
*9	Lowest part of inverted fuel can is between 2 and 3 feet above fuel flow control.	GO NOGO		GO NOGO	
*10	Lowest part of inverted fuel can is the gravity feed adapter.	GO NOGO		GO NOGO	
*11	Drip interceptor loop within 1 foot of fuel can adapter.	GO NOGO		GO NOGO	
*12	Fuel can inverted and secured to tripod prior to lighting stove.	GO NOGO		GO NOGO	
*13	Stove pipes connected w/ seams aligned. All six pipe sections are used.	GO NOGO		GO NOGO	
*14	Stack cap assembly guy lines secured to tent from 3 separate, opposing points.	GO NOGO		GO NOGO	
*15	Stove pipe opening in tent must be serviceable.	GO NOGO		GO NOGO	
*16	Stove pipe opening flaps rolled up and tied off away from stove pipes.	GO NOGO		GO NOGO	

ACTION	Use an H-45 stove (light and operate)				
CONDITION	Given a serviceable H-45 and an area large enough to set up the stove				
STANDARD	Individual soldier: <ul style="list-style-type: none"> - Operated the H-45 IAW the Student/Instructor Evaluation Plan. - Met all critical performance measures IAW the Student/Instructor Evaluation Plan. 				
REFERENCES	TM 10-4520-257-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE- EVAL	INSTR INITIALS
*1	Both base heater doors are open prior to lighting. Wing nuts securing top of heater to heater body base are secure.	GO NOGO		GO NOGO	
*2	Fuel flow control valve is set in accordance with outside temperature.	GO NOGO		GO NOGO	
*3	Fuel ON/OFF control knob turned to ON. Stove is allowed to prime for 5-10 minutes with the fuel flow adjustment knob on the "HI" setting and is then turned down to Position 3 after 5-10 minutes.	GO NOGO		GO NOGO	
*4	Priming cup filled using priming valve on the fuel supply hose.	GO NOGO		GO NOGO	
*5	Fuel from priming cup is poured into the bottom of burner.	GO NOGO		GO NOGO	
*6	Stove is ignited with a burning piece of paper or tissue tossed into bottom of the burner if using diesel or JP5-8.	GO NOGO		GO NOGO	
*7	Lid assembly is closed (not locked) and fuel flow adjustment knob is left at position 3.	GO NOGO		GO NOGO	
*8	As heater warms, flow adjustment knob is turned to adjust heat output.	GO NOGO		GO NOGO	
*9	Stove is not allowed to burn too hot (e.g. cherry red).	GO NOGO		GO NOGO	
*10	Fuel flow control must be turned "OFF" prior to changing fuel can.	GO NOGO		GO NOGO	
*11	Stove must be to "cool-to-touch" prior to refueling/ re-lighting	GO NOGO		GO NOGO	
*12	All tent occupants awake & prepared for emergency exit during refueling & re-lighting operations	GO NOGO		GO NOGO	
*13	Fire guard alert and monitoring fuel flow rate and adjusted as necessary, when stove is in operation	GO NOGO		GO NOGO	

ACTION	Use an H-45 stove (Shutdown and Disassembly)				
CONDITION	Given a serviceable H-45 and an area large enough to set up the stove				
STANDARD	Individual soldier: <ul style="list-style-type: none"> - Operated the H-45 IAW the Student/Instructor Evaluation Plan. - Met all critical performance measures IAW the Student/Instructor Evaluation Plan. 				
REFERENCES	TM 10-4520-257-12&P				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE- EVAL	INSTR INITIALS
*1	Fuel flow control valve placed in the "OFF" position; stove is allowed to shut down.	GO NOGO		GO NOGO	
*2	Fuel can removed from tripod; gravity feed adapter removed	GO NOGO		GO NOGO	
*3	Fuel lines removed from gravity feed adapter and fuel flow control valve	GO NOGO		GO NOGO	
*4	Fuel lines are purged of excess fuel; fuel flow control valve is purged of excess fuel; fuel flow control valve placed in the "ON" position for storage	GO NOGO		GO NOGO	
*5	Stove is allowed to cool.	GO NOGO		GO NOGO	
*6	Stove pipes and stack cap removed.	GO NOGO		GO NOGO	
*7	Wing nuts loosened and top heater shell removed; burner shell assembly removed from heater body base.	GO NOGO		GO NOGO	
*8	Excess soot or ashes removed prior to packing; burner shell assembly returned to heater body base after cleaning.	GO NOGO		GO NOGO	
*9	Top heater shell replaced and secured with wing nuts.	GO NOGO		GO NOGO	
*10	Lid opened and all components returned to heater body base.	GO NOGO		GO NOGO	

Note - * denotes a critical task

ACTION	Utilize an improvised shelter (thermal shelter)				
CONDITION	In a snow covered environment with temperatures of 10 degrees F or colder, given a bow saw, parachute, 100 feet of 550-cord (thermal shelter only), shovel(s), ECWCS, other issued cold weather clothing items, issued cold weather sleep system with insulating pad and other equipment prescribed by unit				
STANDARD	Soldier: - constructed an improvised shelter. - bivouacked in the shelter for approximately 8 hours without the aid of an external heat source. - did not receive a cold weather injury during the bivouac. - met all critical performance measures IAW the student/instructor evaluation plan (see below).				
REFERENCES	N/A				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Removed snow and ice exposing the ground surface.	GO NOGO		GO NOGO	
*2	Constructed the framework from available materials.	GO NOGO		GO NOGO	
*3	Ensured front and sides of framework are sloped enough to retain snow.	GO NOGO		GO NOGO	
*4	Framed door opening is large enough so a heavily clothed soldier will fit through opening.	GO NOGO		GO NOGO	
*5	Door opening is 1-2 feet above ground to ease entry and exit.	GO NOGO		GO NOGO	
*6	Covered framework with poncho, parachute, evergreen boughs or other suitable material. Extended material 1-2 feet beyond skirt of framework.	GO NOGO		GO NOGO	
*7	Secured material with logs rocks or snow, etc.	GO NOGO		GO NOGO	
*8	Cut a hole in material over door opening; material overlaps door frame. Lashed material to door frame for a secure fit.	GO NOGO		GO NOGO	
*9	Tied a 10-12in diameter log or bundle of sticks above door frame to support snow load.	GO NOGO		GO NOGO	
*10	Covered entire framework with 8-10 in of snow.	GO NOGO		GO NOGO	
*11	Created a door plug with trash bag or waterproof bag filled with snow or with a rucksack.	GO NOGO		GO NOGO	
12	Low temperature during the bivouac _____	N/A		N/A	

Note - * denotes a critical task

ACTION	Bivouac in an Arctic 10-man tent				
CONDITION	In a snow covered environment with temperatures of 10 degrees F or colder, given the ECWCS, other issued cold weather clothing items, issued cold weather sleep system with insulating pad, other personal equipment prescribed by unit, standard ahkio group or tent and stove normally used by the unit in the field				
STANDARD	Unit utilized an arctic ten-man tent, with an approved Army heater for at least 8 hours (CWOC or ALIT) and for at least 32 hours (CWLC). Met all critical performance measures IAW the student/instructor evaluation plan.				
REFERENCES	N/A				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
1*	Soldier utilized a cold weather shelter for a minimum of eight hours.	GO NOGO		GO NOGO	
2*	Soldier utilized an approved Army heater during the bivouac. Note stove type _____	GO NOGO		GO NOGO	
3*	Fire guard is posted, awake and fully dressed if any stove is in operation. Fire guard is licensed on the stove in use.	GO NOGO		GO NOGO	
4*	All tent occupants were awake & prepared for emergency exit during refueling & re-lighting operations.	GO NOGO		GO NOGO	
5*	Each Soldier properly executed roll out drill.	GO NOGO		GO NOGO	
6	Low temperature during the bivouac _____				

Note - * denotes a critical task

ACTION	Move over snow on snowshoes				
CONDITION	Given the military snowshoe with bindings, ski poles and vapor barrier boots, rucksack (with a minimum load of sleeping bag, sleeping pad, extra pair of socks, extra pair of mitten inserts, additional packing list items may be prescribed by unit), ECWCS, other issued cold weather clothing items, ballistic helmet, LCE with 2 quarts of water, weapon and a 5 kilometer snow-covered course with varied terrain				
STANDARD	Soldier: - completed a 5 kilometer snowshoe movement. - did not sustain a cold weather injury. - met all critical performance measures IAW the student/instructor evaluation plan.				
REFERENCES	NWTC Cold Weather Operations Manual				
	Performance Measures	FIRST EVAL	INSTR INITIALS	RE-EVAL	INSTR INITIALS
*1	Soldier moved over a 5 kilometer course, with no assistance.	GO NOGO		GO NOGO	
*2	Soldier did not sustain a cold weather injury	GO NOGO		GO NOGO	
3	Time _____				