

COMBAT LEADERS' GUIDE



LEADER HANDBOOK



ARMY RESEARCH INSTITUTE INFANTRY FORCES RESEARCH UNIT

1997

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INTRODUCTION

The Combat Leaders' Guide is both an extract of doctrinal publications and a compilation of tactics, techniques and procedures(TTPs). It is principally designed as a pocket reference and memory-jogger.

Some TTPs you have learned in training do not appear here. The material in this job aid comes from the doctrinal literature program.

Laminate pages to be written on; remove, reorganize or tab pages based on your mission; insert other job aids, TTPs or SOPs as needed.

Questions? Call SACG at Ft. Benning, DSN 835-5741 LT Kirby, SGT Rose, SGT Sparks.

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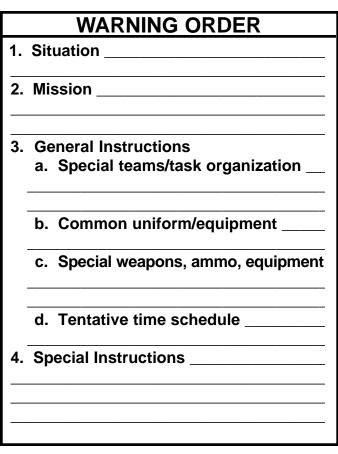
	LEADING IN COMBAT		
1	Set the example		
2	Lead from as far forward as you can		
3	Lead from a position where your soldiers can see you/your vehicle		
4	Lead from where you can control all elements physically or by radio		
5	Move to influence the action		
6	Make sound, quick decisions		
7	Forcefully execute decisions		
8	Use reverse planning sequence		
Not	es:		

B	BASIC RULES OF COMBAT		
TYPE	RULE		
1	SECURE		
	Use cover and concealment		
	Establish local security/recon		
2	MOVE		
	Establish moving element/move		
	to position of advantage		
	Gain and maintain initiative		
3	SHOOT		
· ·	Establish base of fire/mutual		
	support		
	Kill/suppress enemy		
4	COMMUNICATE		
_	Inform everyone/tell soldiers what		
	you expect		
5	SUSTAIN		
Ŭ	Keep fight going/care for soldiers		



TROOP LEADING PROCEDURES		
STEP	ACTION	\checkmark
1	Receive mission	
2	Issue warning order	
3	Make tentative plan	
4	Initiate necessary movement	
5	Conduct Reconnaissance	
6	Complete plan	
7	Issue orders	
8	Supervise and refine	
Note	S:	

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FACTORS OF METT-T		
(F	ACTORS APPLY TO FR & EN)	
ITEM	FACTORS	\checkmark
1	MISSION	
	Intent one & two levels up	
	Specified tasks	
	Implied tasks	
	Mission essential tasks	
	Limitations/constraints	
	Restated mission	



FACTORS OF METT-T		
ITEM	FACTORS	\checkmark
2	ENEMY	
	Disposition/composition	
	Strength	
	Recent activities	
	Weaknesses	
	Possible COAs	
	Probable COAs	
	Reinforcement abilities	



FACTORS OF METT-T		
ITEM	FACTORS	\checkmark
3	TROOPS AVAILABLE	
	Key leaders	
	Disposition	
	Composition	
	Strength (personnel/ materiel)	
	Activities	
	Weaknesses	
	Morale	
	Maintenance level	
	Combat service support	

	FACTORS OF METT-T		
ITEM	FACTORS	\checkmark	
4	TERRAIN (OCOKA)		
	Observation/Fields of fire		
	Cover & concealment		
	Obstacles		
	Key terrain		
	Avenues of approach		
1 I	2-6		

2

FACTORS OF METT-T		
ITEM	FACTORS	$\boldsymbol{\boldsymbol{\boldsymbol{\scriptstyle{\frown}}}}$
5	ТІМЕ	
	Planning & preparation of combat orders	
	Inspections & rehearsals	
	Movement	
	Line of departure	
	Start, critical, release points	
	Use 1/3 - 2/3 rule	

ESTIMATE OF THE SITUATION
1. Detailed Mission analysis
a. Mission/intent of commander 2 levels up
b. Mission/intent of immediate commander
c. Tasks & purpose/specified & implied
d. Mission essential tasks
e. Constraints & limitations
f. Restated mission
g. Tentative time schedule

ESTIMATE OF THE SITUATION
2. Estimate situation/develop course of action
a. Terrain & weather - effects on personnel & equipment
OCOKA
Visibility/trafficability mobility/survivability
b. Enemy situation & COA
Intentions
Capabilities
Disposition
Composition
Strengths
Weaknesses
Weapons/units
Most probable COA based on doctrine/situation

ESTIMATE OF THE SITUATION

c. Friendly situation

Troops available

Equipment available

Time available

d. Friendly COA (repeat for each COA)

Decisive point & time to focus combat power

Results that must be achieved

Purposes & tasks of main & supporting efforts

Task organization to accomplish mission

Control measures

e. Prepare a COA statement & sketch

ESTIMATE OF THE SITUATION

3. Analyze COAs

Mission specific factors

mission essential tasks

commander's intent

relative effectiveness

logistic support

General Factors

characteristics of offense and defense

METT-T

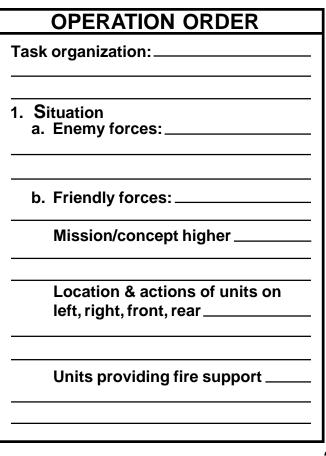
weapon utilization

ESTIMATE OF THE SITUATION			١
4. Compare Courses of Action considering how well the COA:	1	2	3
Supports scheme of maneuver			
Helps command & control			
Concentrates combat power at decisive point			
Forces provide mutual support			
Responds to maneuver elements & reserve			

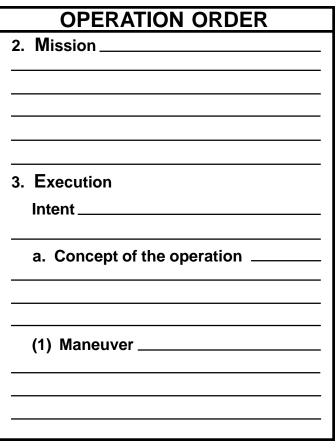
ESTIMATE OF THE SITUA	ESTIMATE OF THE SITUATION		
4. Compare Courses of Action considering how well the COA:	1	2	3
Exploits enemy weakness			
Accounts for weather			
Uses best avenue of approach			
Provides enough maneuver space			
Maximizes observation & ranges of weapon systems			
Provides cover & concealment			

ESTIMATE OF THE SITUATION					
4. Compare Courses of Action considering how well the COA:	1	2	3		
Considers obstacles					
Controls key terrain					
Helps speed of execution					
Does not require adjustment of unit positions					
Uses all HQs					
Requires normal CSS					
5. Decision					

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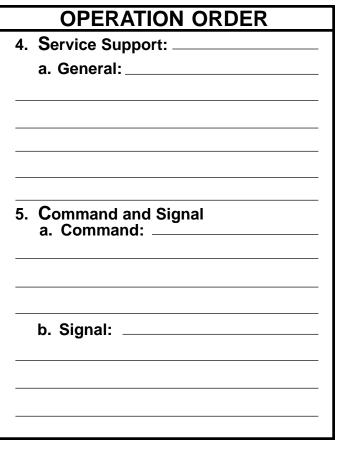
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	OPERATION ORDER
(2)	Fires
	-
b.	Tasks to maneuver units
C.	Tasks to combat support units
	Coordinating instructions
(1)	Time schedule
(2)	PIR
	2-17

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FRAGMENTARY ORDER

(FRAGO provides changes to an existing order. Address only elements that have changed)

Reference _____

Task organization _____

- 1. Situation _____
- 2. Mission_____
- 3. Execution _____
- 4. Service Support _____
- 5. Command/Signal_____



TIME SCHEDULE						
WHEN	WHAT	WHERE	WHO			



LIGHT AND WEATHER DATA		
ITEM	FIRST DAY	NEXT DAY
BMNT/EENT		
Sun Rise		
Sun Set		
Moon Rise		
%Illum		
Moon Set		
NVG Hours		
Temp High/Lo		
Winds		
Precip		
Effects of light	& weather:	

A	ACTIONS BEFORE MARCH		
STEP	ACTION	\checkmark	
1	Give warning order		
2	Select quartering party NCO and send to team CP		
3	Recon route from AA to SP		
4	Record time from AA to SP		
5	Adjust departing time from AA to arrive at SP on time		
6	Have crews perform precombat checks		
7	Have vehicle commanders report their status		
8	Give march order to vehicle commanders		

DU.	DUTIES OF QUARTERING PARTY	
STEP	ACTION	\checkmark
1	Inspect intended assembly area for enemy NBC/mines	
2	Secure platoon area until platoon arrives	
3	Establish and maintain commo	
4	Clear or mark obstacles	
5	Select general location of vehicle positions; mark places	
6	Select covered/concealed route to RP; meet platoon	
7	Guide platoon into area	
8	Brief platoon leader	

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MARCH ORDERS
1. Destination (map)
2. Route of march (map)
3. Location of SP, critical points, RP (map)
4. SP time
5. March interval (meters)
6. March speed (mph/kph)
7. Catch up speed (mph/kph)
8. Time and location of scheduled halts
9. Time unit leaves present position
10. Order of march

3

Α	ACTIONS DURING MARCH		
ITEM	ACTION	\checkmark	
1	Arrive at SP on time at march speed with proper march interval		
2	Maintain ground and air security		
3	Observe vehicle sectors of responsibility		
4	Report SP, critical points, RP (unless under radio listening silence)		
5	If under radio listening silence - use hand and arm signals, flag signals, or flashlight signals		

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	ACTIONS AT HALTS		
ITEM	ACTION	\checkmark	
1	Pull to side of route - maintain order		
2	Establish/maintain security		
3	Move disabled vehicles off road - post guides to direct traffic		
4	Maintain observation/contact with other vehicles		
5	Report status		
6	Take appropriate actions/repair vehicles if possible		

ACT	ACTIONS AT ASSEMBLY AREA		
ITEM	ACTION	\checkmark	
1	Follow guides into preselected secure positions		
2	Clear RP without halting		
3	Emplace/maintain security/OPs		
4	Conduct fire planning		
5	Establish wire commo net/ coordinate with other units		
6	Check/adjust positions; camouflage positions		
7	Start maintenance/resupply/ rearming		
8	Prepare/rehearse reaction plan		

PR	PREPARATION FOR ATTACK		
TASK	ACTION	<	
1	Issue warning order		
2	Move to assembly area		
3	Perform commo check		
4	Check weapons		
5	Check key equipment		
6	Rehearse critical tasks		
7	Recon rtes to LD/OBJ		
8	Issue OPORD		
9	Resupply, rearm, refuel		
10	Coordinate w/higher, supporting, adjacent units		
11	Rehearse		
12	Conduct PMCS as required		
13	Check/integrate attachments		

PREPARATION FOR ATTACK		
TASK	ACTION	\checkmark
14	Check NBC situation/confirm MOPP status	
15	Inspect troops	
16	Inspect vehicles	
17	Feed troops	
18	Rest troops	
19	Move to LD	
Notes:		
Carrow		

Several steps may occur concurrently.

	CONSOLIDATION		
STEP	ACTION	✓	
1	Eliminate all remaining enemy resistance on objective		
2	Occupy hasty positions/ prepare for counterattack		
3	Bring up base of fire element		
4	Prepare for a counterattack		
5	Position key weapon systems		
6	Develop quick fire plan		
7	Prepare range cards		
8	Begin planning to continue attack (map recon, orders)		
Notes	5:		

	REORGANIZATION		
STEP	ACTION	\checkmark	
1	Reestablish chain of command		
	Restore commo with higher, adjacent, FSO		
	Report status: ACE (AMMO/ Casualties/Equipment)		
	Request resupply as needed		
2	Reestablish security/prep for counterattack		
	Reman key weapons		
	Redistribute ammo, supplies, equipment as needed		
3	Clear objective of casualties & EPW		
	Treat, evacuate, process		

REORGANIZATION		
STEP	ACTION	\checkmark
4	Prepare for next mission	
	Relocate weapons & positions Reoccupy & repair positions Repair obstacles & mines Repair & maintain equipment	
Notes	::	

DE	DEFENSIVE PRIORITY OF WORK		
STEP	TASK		
1	Establish local security		
2	Position key weapons & vehicles		
3	Posn sqds/assign sectors		
4	Set up commo net		
5	Coordinate with adjacent units for interlocking sectors		
6	Clear fields of fire		
7	Prepare range cards		
8	Prepare squad & platoon sector sketches		
9	Site final protective line (FPL) and fires (FPF), priority targets		

DE	DEFENSIVE PRIORITY OF WORK		
STEP	TASK	\checkmark	
10	Prep fighting positions		
11	Emplace mines & obstacles		
12	Establish fire control measures		
13	Assign alternate & supplemen- tary battle positions		
14	Take NBC protective measures		
15	Improve primary positions		
16	Prep alternate then suppl posns		
17	Establish sleep/rest plan		
18	Recon supply/evac routes		
19	Rehearse actions on contact		
20	Stockpile ammo, food, water		
21	Continue to improve positions		

DE	FENSE PLANNING OUTLINE
1.	Commander's intent
2.	Platoon/squad mission
3.	Position in company defense
4.	Sectors of fire/EAs/TRPs
5.	Fire support available
6	Evacuate/destroy procedures for
	naged vehicles
	······

DEFENSE	PLANNING	OUTLINE

7.	Evacuation	procedures f	or friendly
ca	sualties		

8. Place to take EPW _____

9. Special signals to use _____

10. On-order mission for platoon/squad

11. Position and mission of units on flanks ______

12. Position and mission of units in the rear

CO	COORDINATION CHECKLIST		
STEP	ITEM	\checkmark	
1	Location of leaders		
2	Location of primary, alternate, & supplementary positions		
3	Sectors of fire of machine guns, anti-armor weapons & subunits		
4	Route to alternate & supplementary positions		
5	Location of dead space between platoons & squads & how to cover it		
6	Location of OPs & withdrawal routes back to the platoon or squad position		
7	Location & types of obstacles & how to cover them		

COC	COORDINATION CHECKLIST		
STEP	ITEM	\checkmark	
8	Patrols - size, type, times of departure & return & routes		
9	Fire support planned		
10	Location, activities & passage plan for scouts & other units forward of platoon position		
11	Signals for fire/cease fire & any emergency signals		
12	Engagement & disengagement criteria		
13	Location of coordination points		

ES	TABLISH OBSERVATION POS	Γ
ITEM	ACTION	\checkmark
1	Select site - cover & concealment Overlapping sectors	
2	Designate OP security & secure reporting procedures Establish withdrawal plan with procedures & routes	
3	Prepare to call for/adjust indirect fire; use binos/ NODs; navigation tools & commo equipment	
4	Conduct surveillance - name observer, recorder & security Search, identify & report personnel, vehicles, etc. Use overlapping sectors of observation	
5	Change observers every 20-30 minutes as situation permits	

FIG	FIGHTING POSITION GUIDELINES		
ITEM	DESCRIPTION	<	
1	Protection - adequate to cover enemy weapons Position - provide cover & concealment - make sure it cannot be seen Fill sandbags 3/4 full Revet excavations in sandy soil Check stabilization of wall bases Inspect daily, especially after rain & after direct/indirect fires Maintain, repair, improve Use proper material, correctly		
2	Site to engage the enemy select best position, cover dead space, use max eff range & provide interlocking fires Priority to effective weapon system use; METT-T dependent		
3	Prep by stages with inspection Improvement is progressive		

BU	LD FIGHTING POSITION
STAGE	ACTION
1	Establish position: Leader check fields of fire, soldier emplace sector stakes Position log or sandbag between stakes Scoop out elbow holes Position lim vis aiming stakes Trace outline on ground Clear fields of fire Leader inspects position
2	Emplace walls: 1 helmet distance from hole to start of cover Front wall 2-3 sandbags high by 2 M16s long for 2 man position Flank wall same height, 1 M16 long; rear wall 1 sandbag high by 1 M16 long Stakes required to hold logs Leader inspects position

5

BUI	BUILD FIGHTING POSITION		
STAGE	ACTION		
3	Dig the position: throw & pack dirt Armpit deep Parapets filled, all camouflaged Grenade sumps dug/floor sloped Rucksack storage optional Leader inspects position		
4	Overhead cover: camouflage blended, cannot detect at 35M Logs placed over center front to rear Waterproofing (plastic bags, ponchos) placed over top 6" - 8" of dirt/sandbags piled on top Overhead cover & bottom camouflaged Leader inspects position		

RANGE CARD PREPARATION

Note: Make card and copy for each primary, alternate, supplementary position

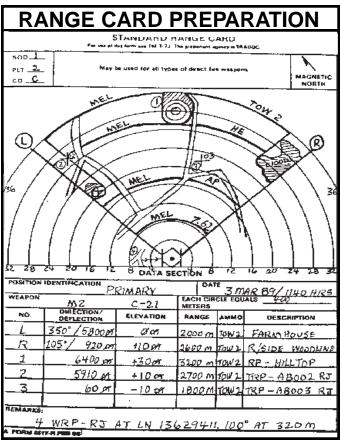
STEP	ACTION	\checkmark
1	Draw symbol for weapon/	
	position in center circle	
2	Draw/label L&R sector limits	
3	Determine range value for each	
	circle by dividing range to most	
	distant terrain feature by number	
	of circles & label card	
4	Draw final protective lines/	
	principal direction of fire	
5	Draw and number TRPs, RPs and	
	possible EAs as ordered	
6	Show dead space areas and label	
7	Draw max engagement lines	
8	Draw terrain features/mark wpn	
	ref point from terrain or grid	

RA	RANGE CARD PREPARATION			
STEP	ACTION	\checkmark		
9	Fill in data section			
	Identify primary, alternate or supplementary position			
	Date & time range card complete			
	Identify weapon/vehicle			
	List L&R limits, TRPs, ref points in numerical order			
	Show gun elev (mils), ammo, range (meters) to limits, TRPs & ref points, describe objects			
10	Fill in wpn ref data (description, grid, magnetic az, distance from WRP to position) in remarks			
11	Fill in marginal info, not higher than company & direction of magnetic north arrow			



RANGE CARD PREPARATION

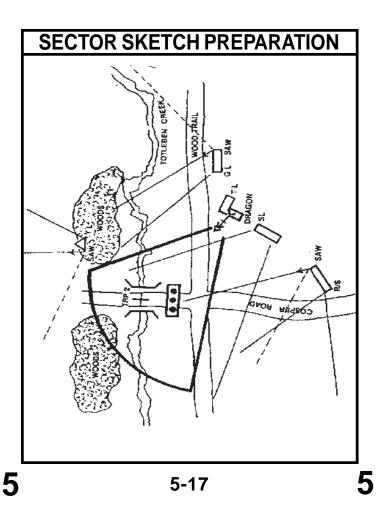
SQD PLT CO	May be us	sed for all type:	s of direct	fire we	apons	MAGNETIC NORTH	
	DENTIFICATIO	N		ATE			
WEAPON			EACH CIF	RCLE EQ	UALS		
NO.	DIRECTION/ DEFLECTION	ELEVATION	RANGE	АММО	DESC	RIPTION	
REMARKS	:		1				
DA FORM (517 R						



5 - 14

SECTOR SKETCH PREPARATION			
	Make card and copy for each primary, alternate and supplementary position		
ITEM	ACTION	\checkmark	
1	Draw your unit sector or EA		
2	Draw main terrain features in sector(s) and range to each		
3	Draw subunit positons		
4	Draw subunit primary and secondary sectors of fire		
5	Draw weapon positions with primary sectors of fire for each		
6	Draw MEL for each weapon/ ammo		
7	Draw machine gun/cannon final protective lines or principal direction of fire		
8	Draw location of CP/OP		
9	Draw TRPs and RPs in sector		

SE	SECTOR SKETCH PREPARATION		
ITEM	ACTION	\checkmark	
10	Draw mines/obstacles		
11	Draw indirect fire target locations/final protective fire locations		
12	Draw and label dead space		
13	Draw patrol routes		
14	Draw locations, sector of fire of other weapons in your sector		
15	Draw location of NODs for use in limited visibility plan		
16	Place your unit ID, DTG prepared, and magnetic north arrow on sketch (pencil)		
Notes	:		



-			
	BATTLE POSITION (BP)		
STEP	ACTION	\mathbf{V}	
1	Move to turret-down psn on BP		
2	Keep rest of plt in hide psn(s)		
3	Recon primary, alternate & supplementary positions		
4	Designate general location of primary posns; move platoon		
5	Designate primary sectors of fire/EA/TRP		
6	Designate alt & suppl psns, sectors of fire/EA/TRP		
7	Coord w/flank/adjacent units OPs/patrols Observation & fields of fire Positions/routes of withdrawal Wire commo		
8	Rpt situation to Co/Tm Cdr		
9	Improve psn; plan rts to next BP		

	FIGHTING FROM A VEHICLE BATTLE POSITION (BP)			
STEP	ACTION	\checkmark		
1	Determine targets to engage			
2	Determine methods of target engagement			
3	Send contact and spot report			
4	Issue platoon fire commands			
5	Call for indirect fire as needed			
6	Send spot reports			
7	Move to subsequent BP			
8	Keep Co/Tm Cdr informed of situation and location			
9	Organize to fight from BPs			

	FIRE DISTRIBUTION		
	AND CONTROL		
ITEM	PRINCIPLE		
1	Engage critical targets first;		
	engage laterally and in depth		
2	Avoid target overkill		
3	Use each weapon in its best role		
4	Destroy most dangerous targets first, considering range, terrain and weapon capability		
5	Concentrate on long range targets if possible, to gain standoff advantage		
6	Take best shots; expose only systems actually needed		
7	Control firing; conserve ammo if possible		
8	Avoid fratricide		
9	Engage different threats		
	simultaneously		

CAMOUFLAGE		
STEP	ACTION	\checkmark
1	Prepare individual/equipment	
2	Consider position from enemy viewpoint	
	Use natural concealment/blend	
	Reduce shine and movement	
	Observe from prone position	
	Don't skyline when moving	
3	Inspect the following areas	
	Individuals/Fighting positions	
	Vehicles and routes in and out	
	Noise/light discipline plan	
	Camouflage nets	
4	Break up vehicle silhouettes - use nets	
5	Reduce glare and signatures	
6	Reduce vehicle noise	

	PHYSICAL SECURITY		
STEP	ACTION	\checkmark	
1	Conduct patrols		
2	Conduct stand-to (general)		
	Troops ready		
	Vehicles topped off/loaded/ ready		
	Basic load of missiles/ammo		
	Weapons loaded/ready		
	Radios on/tested		
3	Conduct stand-to (evening)		
	Emplace vision block covers/ turn internal lights off		
	Ready driver's night vision viewer		
	Test panel control lights/ thermal sights		
	Prepare NVGs/NODs		

	PHYSICAL SECURITY			
STEP	ACTION	\checkmark		
	Check all batteries			
	Upload wpns and ammo			
	Inspect vehicle position to			
	insure no light is visible after dark			
4	Silent watch			
	Assign sectors for surveillance			
	Use manual, battery, or AVP			
	power when possible			
	Use radio listening silence			
	Rotate troops using thermal sight(s)			
	Lay guns on primary AAs/EAs			
5	Post local security			
	Assign sectors/observe sectors			
	Adjust position(s) closer to vehicle(s) at night			

	DEFENDING DURING LIMITED VISIBILITY			
ITEM	ACTION	<		
1	Employ long range STANO equip (GSR, sensors, NOD)			
2	Coordinate any movement outside battle psn boundaries with higher and adjacent units			
3	Redeploy some units & weapons to concentrate along dismount- ed avenues of approach			
4	Employ scouts, OP, patrols, ambushes, and armor killer teams forward on secondary AA and between positions			
5	Employ nuisance obstacles and early warning devices along likely night approaches			

DEFENDING DURING LIMITED VISIBILITY		
ITEM	ACTION	\checkmark
6	Plan required movement of weapons, units, and massing of fires on enemy approaches	
7	Rehearse movement of weapons, units, and massing of fires on enemy approaches	
8	Reposition weapons to take advantage of differences between enemy and friendly STANO devices	
9	Plan illumination on or behind engagement areas to silhouette enemy	

	DEFENDING DURING LIMITED VISIBILITY	
ITEM	ACTION	<
10	Move TRPs and/or EAs closer to defensive positions or move weapons closer to them- use METT-T	
11	Commence adjustments to defensive organization before dark	
12	Complete return to daylight positions before dawn	
13	Move closer to avenue(s) of approach you guard during bad weather	
14	Be aware that sensors and radar may still penetrate bad weather	

FL	FUNDAMENTALS OF DELAY	
ITEM	ACTION	\checkmark
1	Centralized control and decentralized execution	
	Maintain enemy contact	
	Coordinate flank security	
2	Maximize OCOKA	
	Observation and fields of fire	
	Cover and concealment	
	Obstacles	
	Key terrain	
	Avenues of approach	
3	Force enemy maneuver/deploy	
	Use snipers, ambushes to slow enemy	
	Trade space for time	

FL	FUNDAMENTALS OF DELAY		
ITEM	ACTION	\mathbf{V}	
4	Use obstacles		
	Natural and reinforcing		
	Cover by observation/fire		
5	Maintain enemy contact		
	Keep enemy in sight		
	Observe and adjust fires		
6	Keep free to maneuver		
	Avoid decisive engagement		
	Displace to next position		
7	Missions: delay in sector or forward of a line or position for specified time		
8	Assign sectors for each committed unit/avenue of approach		
9	Each unit sets up own security		

6

DISENGAGEMENT PLANNING
1. Scheme of maneuver
2. Time of disengagement
3. Priority of disengagement
4. Location of new positions
5. Size and composition of advance parties
6. Size and composition of overwatch forces
7. Location of overwatch forces
8. Combat service support

DI	DISENGAGEMENT ACTIONS	
ITEM	ACTION	\checkmark
1	Deceive the enemy with smoke, patrols, fires, radio transmissions	
2	Use overwatch elements to keep enemy pressure off disengaging forces	
3	Maintain OPSEC/COMSEC	
4	Recon/prepare routes	
5	Recon/prepare new positions	
6	Plan to move wounded	
7	Plan to move equipment	
8	Move CSS early	
9	Move during limited visibility	
10	Use obstacles to slow enemy	

PASSAGE OF LINES COORDINATION

(MECH)

- 1. Disposition of the stationary force
- 2. Contact points
- 3. Select routes
- 4. Size of passage lanes
- 5. Attack position (forward move)
- 6. Assembly area (rearward move)
- 7. Initial location
- 8. Time of transfer of responsibility
- 9. Traffic control/guides
- 10. Communications/call signs/ frequencies
- 11. Supporting fires
- 12. Recognition signals
- 13. CS/CSS
- 14. Execution

(LIGHT)

- 1. Ask for changes to previous coordination
- 2. Known or suspected enemy
- 3. Fire & barrier plan
- 4. Actions on contact
- 5. What type support provided

	WITHDRAWAL UNDER	
	•••••	
	ENEMY PRESSURE	
ITEM	ACTION	\checkmark
1	Withdrawal principles	
	Co Cdr controls sequence of plt withdrawals/PL controls squads	
	Initiate break contact drill using fire, maneuver, overwatch, obscuration	
2	Disengagement technique based on enemy status, terrain, available covering fires	
	Simultaneous when overwatch is present; by teams; thinning the lines	

	WITHDRAWAL UNDER ENEMY PRESSURE		
ITEM	ACTION	\checkmark	
3	Maintain base of fire		
	Move AT weapons/tanks back first against enemy mounted attack		
	Use Infantry in close terrain/ limited visibility/against dismounted enemy		
4	Plan for/specify		
	Scheme for maneuver		
	Time of withdrawal		
	Location of new positions		
	Size/make-up of advance party/overwatch forces		
	Battle/overwatch positions		
	Routes/checkpoints		

	WITHDRAWAL UNDER ENEMY PRESSURE	
ITEM	ACTION	\checkmark
	Remount point(s)	
	Evacuation of wounded	
	Evacuation of equipment	
	Priorities	
	Obstacles	
	Items to destroy	
Notes		

W	ITHDRAWAL NOT UNDER ENEMY PRESSURE	
ITEM	ACTION	\checkmark
1	Withdrawal principles	
	Speed/secrecy/deception	
	At night/in reduced visibility	
	As part of a larger force to perform another mission	
2	For plt as company security force	
	Cover entire company area	
	Reposition sqds/wpns to cover withdrawal	
	Place 1 sqd's key weapons in each plt psn to cover most dangerous AA	
	Co XO or PL is security force leader	

WITHDRAWAL NOT UNDER ENEMY PRESSURE		
ITEM	ACTION	\checkmark
3	For security force made up of 1 sqd / 1mg tm / 2 dragons	
	SL left in position is plt security leader	
	Reposition sqd to cover plt withdrawal and plt area	
	CP scty force Cdr controls plt scty force during withdrawal	
4	Security Force	
	Conceals withdrawal	
	Deceives enemy-keeps up normal operating patterns	
	Provides covering fire if enemy attacks	
	Withdraw when company is at next position or as ordered	

W	WITHDRAWAL NOT UNDER ENEMY PRESSURE		
ITEM	ACTION	\checkmark	
	Gets withdrawal order by land line or radio codeword		
	Uses company plan to withdraw		
	Reassembles to move to rear		
	If under attack, conducts fire and maneuver to rear until they break contact		
5	Quartering party		
	Send ahead before withdrawal		
	PSG and guide for each squad		
	Recons and selects psn/ sectors/routes/OP for plt		
	Meets and guides plt into psn		
	PSG meets/briefs PL on position/situation		

W	WITHDRAWAL NOT UNDER ENEMY PRESSURE	
ITEM	ACTION	<
6	Company OPORD contains	
	Time withdrawal will start	
	Location of plt/co assembly area & routes between	
	Plt mission(s) upon arrival	
	Size/org/Cdr of scty force	
	Next co/plt mission	
7	Platoon Leader plans	
	When his withdrawal starts	
	Location of sqd/plt assembly areas and routes between	
	Sqd missions on arrival	
	Size/org/Cdr of scty force	
	Next plt/sqd mission(s)	

RELIEF IN PLACE		
ITEM	ACTION	<
1	Incoming leader recons area	
2	Incoming and outgoing leaders coordinate	
3	Exchange liaison personnel	
4	Coordinate positions of weapons and vehicles	
5	Exchange range cards and fire plans	
6	Exchange relief or organic fire support elements	
7	Coordinate obstacles locations	
8	Transfer responsibility for minefields	
9	Coordinate routes into and out of positions	
10	Coordinate vehicle guides	

7

	RELIEF IN PLACE	
ITEM	ACTION	\checkmark
11	Transfer excess ammo, wire lines, POL, and other material to incoming unit	
12	Coordinate commo for one net during relief	
13	Coordinate enemy situation and intelligence	
14	Coordinate sequence of relief	
15	Coordinate time of change of responsibility for the area	
Note	S:	

P/	ATROL PLANNING STEPS	;
STEP	ACTION	
1	Identify actions on objective then plan backward	
2	Analyze mission in accordance with factors of METT-T	
3	Task organize	
4	Organize patrol	
5	Select personnel/wpns/equip	
6	Issue warning order	
7	Coordinate	
8	Make recon	
9	Complete detailed plans	
10	Issue order	
11	Supervise/inspect/rehearse	
12	Execute mission	

F	PATROL COORDINATION	
ITEM	DESCRIPTION	\checkmark
1	Between leader & BN staff or CO CDR	
	Changes/updates to enemy situation	
	Best use of terrain for routes, RPs, PBs	
	Light/weather data	
	Changes in friendly situation	
	Attachment of soldiers with special skills/equip	
	Use/location of LZs	
	Departure/reentry of friendly lines	
	Fire support on obj & along planned primary/alt routes	
	Rehearsal areas & times	
	Special equipment	

F	PATROL COORDINATION	
ITEM	DESCRIPTION	\checkmark
	Transportation support	
	Signal plan	
2	Coord with unit thru which plt/sqd will conduct forward & rearward passage of lines	
3	PL coordinate with leaders of other patrols	
Notes	:	

8

	COMPLETE THE PLAN	
ITEM	DESCRIPTION	\checkmark
1	Essential & supporting tasks on objective, RPs, danger areas, security/surveillance locations, along routes/passage lanes	
2	Key travel & execution times for movement, leader recon, estab of security, completion of tasks on obj, movement to ORP, return through friendly lines	
3	Primary & alternate routes	
4	Signals, including rehearsal of special signals	

	COMPLETE THE PLAN	
ITEM	DESCRIPTION	\checkmark
5	Challenge & password forward of friendly lines (SOI not forward of FEBA)	
6	Actions on enemy contact, including WIA/KIA, EPWs	
7	Contingency plans	
	Where leader is going Who else is going along Amount of time leader is planning to be gone Actions to be taken if leader does not return Actions on chance contact while leader is gone	

	DEPARTURE FROM FRIENDLY LINES
ITEM	DESCRIPTION
1	Coordinate with CDR of forward unit/leaders of other patrols SOI, plans, password, procedures, rally points, enemy information
2	PL provide unit ID, patrol size, departure & return times, AO Fwd unit provide info on terrain, en posns/activity, ambush sites, friendly posns, OPs, obstacles & fire plan, support available
3	Planning Move to initial rally point Complete final coordination Move to/thru passage point/single file Establish security

	RALLY POINTS	
ITEM	DESCRIPTION	
1	Selection Easy to find Offer cover & concealment Away from natural lines of drift Defendable for short periods	
2	Types <u>Initial</u> - inside friendly lines <u>En route</u> - every 100-400 meters based on terrain, vegetation, visibility <u>Objective rally point</u> (ORP) out of sight, sound, small arms range <u>Reentry rally point</u> outside friendly FPF <u>Near & far side rally points</u> - danger areas	

PATROL REPORT (DEBRIEFED)

A. Patrol size and composition _____

B. Mission (type, location, purpose of patrol)

C. Time of Departure and return_____

D. Routes out and back (checkpoints, grid, overlays) _____

E. Decription of terrain and enemy position

F. Results of enemy encounters _____

G. Misc information/map corrections_____

- H. Condition of personnel _____
- I. Conclusions/recommendations_____

SEL	ECTION OF A PATROL BAS	Ε
STEP	ACTION	\checkmark
1	Pick tentative PB site from map or aerial recon	
2	Plan for alternate site; recon and observe until occupied or not needed	
3	Select site considering lack of tactical value to enemy, terrain, trafficability, water	
4	Plan for OPs/commo with OPs	
5	Plan for defense of PB, withdrawal routes, rally and rendezvous points	
6	Provide security/alert plan, camouflage, noise/light/litter discipline	
7	Avoid enemy positions, built up areas, ridges, roads/trails, slopes	

000	OCCUPATION OF A PATROL BASE	
STEP	ACTION	
1	Approach - halt patrol	
	Conduct leader recon of site	
2	Recon	
	Patrol Idr designates entry	
	point/CP at center of base	
	Element Idrs recon sectors and return to CP	
	Ldr sends 2 to bring patrol fwd	
3	Occupation single file/camouflaged	
4	Ldr check perimeter by meeting	
	element leaders in turn	
5	R&S team recon fwd, move clockwise	
6	R&S teams report enemy activity,	
	OPs, RPs, withdrawal routes	
7	Ldr designates routes and	
	RPs outside	
8	Each element sets commo, OPs	

F	ATROL BASE ACTIVITIES
STEP	ACTION
1	Security One point of entry/exit Noise light litter discipline - challenge all Aiming stakes & claymores in Each sqd estab OP/dig hasty posns SLs prep sector sketch/range cards
2	Alert plan & stand-to time day & night Check posns, OPs, rotate leaders
3	Withdrawal plan Signals, order, rendezvous point
4	Maintenance plan for wpns, commo, NVDs
5	Sanitation & personal hygiene plan
6	Mess plan & water resupply
7	Sterilize upon departure

	PRINCIPLES OF A RAID		
ITEM	TASKS	\checkmark	
1	Conduct with combat patrol; plan withdrawal		
2	Attack /destroy posn/ installation		
3	Destroy or capture enemy troops/equipment		
4	Rescue friendly personnel		
5	Gather Priority Intelligence Requirements (PIR)		
6	Do not become decisively engaged		
7	Attack when least expected, in poor visibility, from unexpected direction and terrain		
8	Concentrate fire at critical points		
9	Achieve violence by surprise, massed fire, aggressive attack		

CONDUCT A RAID		
STEP	ACTION	\checkmark
1	Patrol move to ORP for recon	
	Recon & secure ORP, conduct	
	leader recon of objective	
	Coordinate movements of	
	elements to objective	
2	Security element duties	
	Move to positions, secure ORP	
	Block avenues of approach	
	into/prevent escape from	
	objective area- seal off area	
	Inform patrol leader of	
	changes on objective	
	Shoot only if detected or on	
	order; cover withdrawal of	
	assault and support elements	
	from ORP	

CONDUCT A RAID		
STEP	ACTION	\checkmark
3	Support element duties	
	Move into psn prior to assault element	
	Cover withdrawal of assault element	
	Withdraw on order/signal	
4	Assault element duties	
	Deploy close to objective for immediate assault (if detected)	
	Seize, secure objective when supporting fire lifts or shifts	
	Protect demolition/search teams	
	Withdraw on order/signal	
5	Reorganize patrol 1km or 1 terrain feature from ORP: report, redistribute ammo, treat casualties, disseminate info	

PRINCIPLES OF AN AMBUSH		
ITEM	PRINCIPLE	\checkmark
1	Place effective fires into entire kill zone - assign sectors	
2	Use well-trained teams with simple plan and prior recon	
3	Maintain security, especially when returning to friendly psn	
4	Soldier and weapon placement - priority to concealment and fields of fire	
5	Clear signals to open/shift/cease fire	
6	Point ambush - enemy attacked in single kill zone	
7	<u>Area ambush</u> - unit deploys to 2 or more related point ambushes in area	
	Security elements/teams on flank & rear if possible	

PR	PRINCIPLES OF AN AMBUSH		
ITEM	PRINCIPLE	\checkmark	
	PI reorganize into assault element, support element, security element		
	Man trap/natural boundary on far side of kill zone Plan indirect fires to seal area & cover withdrawal Initiate with most casualty producing wpn - have backup		
8	<u>Vehicular ambush</u> - stop lead & trail vehicles in kill zone; kill armor first		
9	<u>Night ambush</u> similar to day		
	Control soldiers/issue clear orders & signals		
	Use sector stakes Move to position after EENT; plan illum		

	ORGANIZE AN AMBUSH	
STEP	ACTION	\checkmark
1	Point or area? L-shaped or linear?	
2	Are routes to & from concealed & known to all?	
3	Do positions provide early warning & effective fires onto kill zone?	
4	Is kill zone isolated & dead space covered w/mines, demo, indirect fire?	
5	Does everyone know signal (& backup) to warn of enemy approach, initiate ambush, shift/lift, withdraw?	
6	Does everyone know withdrawal routes & sequence?	

	ORGANIZE AN AMBUSH		
STEP	ACTION	\checkmark	
7	Are routes covered by mines or indirect fire if ambush fails?		
8	Does everyone know what to do if ambush detected?		
9	What is the running password?		
10	Does everyone know teams/ tasks?		
Natao			

Notes:

CONDUCT AN AMBUSH		
STEP	ACTION	\checkmark
1	Ambush formation based on	
	METT-T/overall situation	
	Ease of control/target	
2	Patrol halt at ORP	
	Establish security/confirm location	
	Recon objective to confirm plan	
	Return to ORP/leave R&S team	
3	Security element secure ORP & flank of ambush site	
4	<u>Support/assault</u> elements leave ORP	
	When security in position	
	Occupy positions	
	Support overwatches assault move to ambush site	

	CONDUCT AN AMBUSH	
STEP	ACTION	\checkmark
5	Patrol waits for target after all elements in position	
6	Security team alerts patrol on enemy direction of movement, target size, special weapons/ equipment	
7	Patrol Idr alerts other elements	
	Initiates when most of target in kill zone	
	Lift/shift fire if assault into zone required	
8	Withdraw to ORP for accountability, disseminate information, return to friendly position	

PLAN A RECON MISSION		
STEP	ACTION	\checkmark
1	Make estimate of the situation	
	Current intelligence	
	Capabilities of unit	
	Task organize to support mission	
2	Plan	
	Intelligence	
	Deceptive measures	
	Use of smallest unit possible to accomplish mission	
	Methods to remain undetected	
	Use of STANO devices	
	Rehearsal	
	Ways to minimize audio and electronic equipment	
	Inspection of recon force and equipment	

F	PLAN A RECON MISSION	
STEP	ACTION	\mathbf{V}
3	Subordinate missions	
	Command and control	
	Recon of objective	
	Security of force	

Notes:



	RECON ZONE		
ITEM	METHOD		
1	Use fan method		
	PL selects series of ORPs through zone		
	Select recon rtes to and from ORP - overlapping rtes form fan shaped pattern around ORP. Recon elements recon adjacent rtes		
	After recon complete, move to next ORP and repeat		
2	Use converging routes method		
	Leader select ORP. Recon rtes through zone, and then a link up point		
	Each element recons own route; entire unit links up at end		

RECON ZONE		
ITEM	METHOD	
3	Use successive sectors method	
	Leader selects ORP, a series of recon rtes, and link up points	
	Each link up point becomes ORP for next phase	
Note		
	0.01	

	RECON AREA		
ITEM	METHOD		
1	Separate recon and security elements		
	if objective restricted in area,		
	clearly defined, with specific		
	avenues of approach		
	Conduct leader recon		
	Designate positions for security team		
	Security teams move on covered		
	& concealed rtes to posns		
	After security in place, recon		
	element departs ORP to		
	recon objective		
	After obj recon, recon element		
	& security return to ORP and		
	disseminate information <u>OR</u>		

	RECON AREA		
ITEM	METHOD		
2	Combine R&S elements if objective not clearly defined and located, and terrain does not permit plt to secure objective area or if detection possible		
	One R&S team stay in ORP to act as reaction force in case of contact		
	Several R&S teams recon separate parts of obj, then link up at ORP		
	2 R&S teams use ORP as release point, then link up at point on far side of objective		
	1 R&S team w/one follow on security team to follow, acts as quick reaction force; entire unit departs when recon complete		

	RECON AREA		
ITEM	METHOD		
4	Recon objective by long range surveillance if possible; short range surveillance if required by METT-T; avoid detection		
	Techniques: observe/collect/ record information about enemy/ use binos Well-rehearsed plan Cover movement w/battlefield noise Establish control measures, alternate routes, fire support		
Notes:			

NBC-1 REPORT		
LINE	ITEM *CHEM/BIO	
В	Position of observer - (UTM coord)	
С	Direction of attack from observer (Degrees) (Mils)	
D	Date-time group of detonation/ *area attacked (DTC)	
F	Location of attack/*area attacked (Actual) (Estimated) (UTM coord)	
G	Means of delivery (artillery, mortar, spray, etc.)	
н	Height of burst/*type of agent (Air) (Surface) (Unknown)	

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	NBC-4 REPORT	
LINE	ITEM	
н	Height of burst/*agent-type (Air) (Surface) (Unknown)	
Q	Location of reading (UTM coord) (Air) (Liquid)	
R	Dose rate - measure in open, 1 meter above the ground (cGy/hr)	
S	DTG of initial reading	

NBC-PRIOR TO ATTACK		
STEP	ACTION	\mathbf{V}
1	Increase MOPP level IAW intel	
2	Set up chemical agent alarm 100-150 m out & upwind	
	Prevent tampering	
	Attach M42 to M43A1 w/wire (MAX 400M); place near PLT CP & commo	
	Reservice/check every 24 hrs	
3	Affix M8/M9 detector paper	
4	Prep overhead cover	
5	Alert detection teams, M256 kit	
6	Leaders check for readiness	
7	Cover equipment not in active use	

NBC-DURING ATTACK		
STEP	ACTION	\mathbf{V}
1	STOP BREATHING, MASK & GIVE ALARM warn subordinate & higher: send "GAS, GAS, GAS, AND GRID" message leaders give order to mask & take protective action	
2	Seek overhead cover for self, cover equipment, close up vehicle	
3	Decontaminate M258A1/M291 on skin & equip M11/M13DAP to apply DS2	
4	Go to MOPP4	
5	Initate detection measures: vapor M256 kit; liquid M8/M9 paper; close inlet/outlet ports of M8A1 alarm	

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	NBC-DURING ATTACK		
STEP	ACTION	$\overline{\mathbf{V}}$	
6	Report; send follow up NBC1 reports		
7	Leaders check personnel & protection		
8	Continue the mission		
Notes			

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	NBC-AFTER ATTACK			
STEP	ACTION	\checkmark		
1	CONTINUE THE MISSION			
2	Minimize effects on personnel/ equipment			
3	Inform CP of extent of contamination-mark personnel, equipment & areas			
4	Maintain MOPP4 until ordered to lower level			
5	Decontaminate personnel w/M258A1/M291 kits; Apply DS-2 to vehicles			
	Hasty decon: MOPP gear exchange, vehicle washdown w/M17LDS, M12			

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	NBC-AFTER ATTACK		
STEP	ACTION	\checkmark	
	Deliberate decon: detailed troop (unit), equipment (decon plt)		
6	Casualties - decon with PDK & wrapped as appropriate		
Notes	>.		
9-7			

UN	UNMASKING WITH CHEMICAL AGENT DETECTOR KIT		
STEP	ACTION	\mathbf{V}	
1	Use all available detection equipment (M8 & M9 paper, chemical alarms, etc.) before proceeding		
2	Get Cdr's approval		
3	Employ M256 or M256A1 Detector Kit		
4	If no chemical agent detected, have 1-2 soldiers unmask <u>in shade</u> for 5 minutes; remask for 10 minutes		
5	Check for symptoms; if none, others may unmask; remain alert for symptoms.		

	UNMASK WITHOUT CHEMICAL AGENT DETECTOR KIT		
STEP	ACTION		
1	Use all available detection equip (M8 & M9 paper, chemical alarms, etc.) before proceeding		
2	Get Cdr's approval		
3	Have 1-3 soldiers hold breath & break seal of mask <u>in shade</u> for 15 seconds, eyes open		
4	Reseal, clear & check masks, wait 10 minutes		
5	Check for symptoms; if none, break seal of mask, take 2-3 breaths; repeat Step 4		
6	If no symptoms, have soldiers unmask for 5 minutes; remask for 10 minutes		
7	Check for symptoms; if none, others may unmask; remain alert for symptoms		

VPV	VW	<u>SUR</u>		ROOK		
	MOPP LEVEL	OVER- GARMENTS	OVERBOOTS	MASK/HOOD	GLOVES	
	0	Carried	carried	carried	carried	
	1	Worn open or closed	carried	carried	carried	MOPP
9-10	2	Worn open or closed	worn	worn	carried	LEV
	3	Worn open or closed	worn	worn	worn	ELS
	4	Worn closed	worn	worn	worn	

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DE	TAILED TROOP DECON	
STEP	ACTION	\checkmark
1	Equipment decon	
2	Mask/hood decon & boot shuffle	
3	Remove over garment jacket-high jumper trousers	
4	Remove boot & glove	
5	Monitor (medical/contam eval)	
6	Mask removal (vapor control line)	
7	Mask decon	
8	Re-issue point	

N	IOPP GEAR EXCHANGE	
STEP	ACTION	$\mathbf{\mathbf{V}}$
	*solo **buddy team assist	
1	Gear drop & decon*	
2	Decon hood & roll**	
3	Remove overgarment** jacket black side out trousers	
4	Remove overboots & step on jackets**	
	Remove CP gloves**	
5	Put on overgarment*	
6	Put on overboots*	
7	Put on CP gloves*	
8	Roll down & secure hood**	
9	Secure gear*	

	MARK CONTAMINATED AREA: RADIOLOGICAL/BIO/CHEM		
STEP	ACTION	\checkmark	
1	Locate/identify contaminated area		
2	For <u>radiological</u> use marker labeled ATOM. Print information so word "ATOM" faces toward you & in upright psn: print dose rate (centigrays/hr); date/time (state ZULU or local) of reading & detonation. If unknown print "UNKNOWN"		
3	For <u>biological</u> use marker labeled BIO; for <u>chemical</u> use marker labeled GAS. Use same procedures as above, stating type of agent, if known		
4	Position markers so information faces away from contaminated area		

	MARK CONTAMINATED AREA:			
<u> </u>	ADIOLOGICAL/BIO/CHEM			
STEP	ACTION	\checkmark		
5	Attach markers so they can be seen from all routes through area; ensure each is visible from previous marker.			
6	Place ATOM markers at locations where dose rate measures 1 centigray/hr (cGy/hr) or more			
Notes:				

	PREPARE FOR NBC ATTACK/ PROTECT AGAINST ELECTROMAGNETIC PULSE		
STEP	ACTION	\checkmark	
1	Ensure ALL items are covered or dug in when not in use		
2	Park vehicles with air vents away from winds; close hatches, doors, etc.		
3	Protect electronic equipment against EMP by disconnecting antennas & spare equipment; shield with metal		
4	Use highest freq possible; never use commercial power. Keep cable & wire short; bury 18"		
5	Use remote sets only when required; use common ground for all equipment; insulate antenna guy lines		

R	SUPERVISE RADIATION MONITORING			
STEP	ACTION	\checkmark		
1	List grid coordinates of central point in area			
2	Tell IM-174/AN/VDR-2 operator to take readings from central point hourly; check that operator uses IM-174/AN/VDR-2 correctly			
3	Have operator report readings to you immediately; use NBC-4 report			
4	Take continuous readings if reading is 1 or more cGy/hr; fallout warning received or nuclear burst seen; if moving to another location			
5	Check hourly when reading drops below 1 cGy/hr			

	USING A DOSIMETER		
STEP	ACTION	$\overline{}$	
1	Hold viewing end of dosimeter up to your eye, pointing toward light but not directly into the sun. An IM93 must be held parallel to the ground.		
2	Point where vertical hairline crosses scale is total amount of radiation received in cGy		
3	Report the number of cGy to your Cdr		
Notes	:		

Т	COLLECT/REPORT TOTAL RADIATION DOSE					
STEP	ACTION	\checkmark				
1	Turn in for recharging any dosimeter that does not read 0; recharge dosimeters daily					
2	Have soldiers who perform duties in unit's area wear dosimeters					
3	Collect readings from soldiers at the same time, at least once daily; ensure readings are accurate					
4	Add reported readings together; divide by number of readings					
5	Round up to nearest 10 and report to Cdr					

PRIN	PRINCIPLES OF FIRE SUPPORT					
PL	PLANNING/COORDINATION					
ITEM	PRINCIPLE	\checkmark				
1	Plan early & continuously					
2	Consider all available resources & means of fire support - mortars, artillery, attack helicopters, CAS					
3	Select most effective asset & avoid duplication-check with higher					
4	Provide flexibility & safe fires					
5	Insure continuous targeting - likely, known & suspected enemy locations					
6	Before LD, LD to OBJ, on OBJ, beyond OBJ					
7	Use lowest echelon possible					
		-				

	CALL FOR FIRE
STEP	DESCRIPTION
	STEPS 1-3 ARE REQUIRED
1	Observer ID & warning order:
	Adjust fire
	Fire for effect (FFE)
	Suppress (Tgt #)
	Immediate suppression (Grid)
2	Target location methods
	Grid - 6 digit grid/direction
	Polar - direction, distance
	Shift from a known point - direction
	to tgt, add or drop, left or right from
	kp (dir always OBS to TGT)
3	Target description (SNAP)
	Size/shape
	Nature/nomenclature
	Activity
	Protection
0	10-2

	CALL FOR FIRE
STEP	DESCRIPTION
4	Method of engagement Type of adjustments Danger close Trajectory, Ammunition Distribution
5	Method of fire & control At my command/Cannot observe Time on target Continuous/coordinated illum Cease loading Check firing/Continuous fire Repeat
6	Refinement & end of mission Correct, Record, Report battle damage assessment
	40.0

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ا ال		 			
	REMARKS				
KSI	SIZE				
Im					
×	ATTITUDE				
-IST					
	LOCATION				
TARGET LIST WORKSHEET	DESCRIPTION				
	TARGET NO.				

10-5

MORTAR/ARTILLERY CAPABILITIES

NAME	RANGE	ТҮРЕ
60mm/M224	70-3500	HE WP ILLUM
81mm/M29A1	70-4790	HE WP ILLUM
81mm/M252	73-5600	HE WP ILLUM RED P
107mm/M30	770-6840	HE WP ILLUM
120mm/M120	200-7200	HE SMOKE ILLUM
NAME	PLANNING	ROF -
	RANGE	MAX/SUST
105MM/M102	11,500	10 RPM/3 RPM
105MM/M119	14,000	6 RPM/3 RPM
155MM/M198	18,100	4 RPM/1 RPM
155MM/M109	18,100	4 RPM/1 RPM
155MM/M109A6	23,500	6 RPM/1 RPM
Paladin	RAP	
227MM/MLRS	30KM	12 RDS/M
MLRS(ATACM)	100KM	2 missiles/18sec

AFV WEAPON CAPABILITIES EFFECTIVE RANGE (METERS)

SYSTEM	7.62 mm	.50 mm	25 mm	40 mm	105/120 mm	152 mm	TOW/ SHIL
HMMWV M1044	1100	1800		2200			3750
M901 ITV	1100						3750
M113 APC		1800		2200	or		3750
M2/ 3 BFV	1100	_	750 A				3750
LAV25	1100		3000				
M1/M1A1	1100	1800			2800/ 3990		
M60A1/A3	1100	1800			1700		
M551 SHER	1100	1800				2000	3000

	TARGET ACQUISITION	
ITEM	SIGNATURE	\checkmark
1	Soldiers - trash, damaged vegetation, noise	
2	Tracked vehicles - fuel, smoke, noise	
3	Antitank weapons - noise, wires, vapor trails, flash	
4	Artillery - noise, smoke, flash	
5	Aircraft - noise, glare, vapor trails, dust	
6	Mines and obstacles - strange material, tripwires, loose/ disturbed dirt, tactical barbed wire	
<u> </u>	10-8	

	ATTACK HELICOPTER CAPABILITIES						
NAME		WEAPON	#	RANGE M			
AH-6	LITTLE BIRD	7.62 minigun 2.75" FFAR	1 7-28	1100 9300			
AH-1(G)	COBRA	2.75" FFAR 7.62 minigun 40mm GL	4 1 1	9300 1100 2000			
AH-1(S)	COBRA	2.75" FFAR TOW 20mm cannon	2 8 1	9300 3750 1500			
OH-58D	KIOWA WARRIOR	2.75" FFAR HELLFIRE 12.7mm HMG	7-14 2-4 1	9300 6000 1800			
AH-64	APACHE	2.75" FFAR HELLFIRE 30mm chaingun	7-28 1-16 1				
AH-60L	DIRECT ACTION PENETRATOR	2.75" FFAR HELLFIRE 7.62 minigur	7-28 1-16 1				

		RTILLERY COUNTERFIRE HELREP - MORTREP - BOMBREP
	Α	Call sign
	В	Coordinates of observer
	С	AZ to flash or sound
	D	Time shelling started
	Е	Time shelling ended
	F Coordinates of shelled areas	
	G Number of guns	
	н	Nature of fire
	I	Number, type & caliber of rounds
	J	Flash-to-Bang-Time
	К	Damage
1(0	10-10 1

ſ	SUPPLIES AND LOGISTICAL						
		SERVICES					
	ITEM	PRINCIPLE	\checkmark				
	1	Chain of command plans for supply status & equipment for fighting; 1SG directs Co log services; PSG coordinates/ supervises platoon maintenance with 1SG					
	2	Plt logistics includes long & short term supply/transportation/ maintenance					
	3	PSG coordinates/supervises by getting requests for supplies/ equipment from SLs and PLs; reviewing & consolidating, giving list to 1SG or supply sgt					
	4	PSG must maintain status of supplies & equipment in plt, monitors requests, reports to PL					
11	1	11-1	1				

PRECOMBAT CHECKS - MECH		
ITEM	ACTION	\checkmark
1	Complete prepare to fire weapons checks	
2	Complete preops PMCS; resolve problems	
3	Load vehicles/rucks per load plans	
4	Clean/function check individual & crew served weapons	
5	Top off vehicles	
6	Stow basic load of Classes I & V	
7	Fill canteens, water & oil cans as needed	
8	Index battlesights	
9	Check radio frequency and operation if authorized.	
10	Check speech security equipment and operation if authorized	
11	Check personnel; brief mission	
12	Rehearse	

PRECOMBAT CHECKS - LIGHT		
ITEM	ACTION	\checkmark
1	Leaders inspect equipment and camouflage	
2	Packing list checked	
3	Compasses, maps present	
4	Communications check	
5	Rations drawn	
6	Weapons test fired	
Notes:		

CLASSES OF SUPPLY		
CLASS	DESCRIPTION	SYMBOL
I	Rations	
Ш	Expendables	
	POL	
IV	Barrier material	Ē
v	Ammunition	
VI	Sundry	Ĩ
VII	Major end items	\bigcirc
VIII	Medical	\oplus
IX	Repair parts	
X	Material to support nonmilitary programs	CA

11

ELECTRO COUNTER-COUNTER
MEASURES

- 1 To determine if you are being jammed, disconnect antenna. If noise stops, then starts again when antenna is reconnected, suspect jamming. If noise does not stop, check radio malfunction.
- 2 If you are being jammed:

Continue to transmit on highest power setting Relocate to mask jamming signal with terrain

Use directional antenna

Turn squelch off

NEVER acknowledge jamming

Move after transmission

3 MIJI Report

RA	RADIO TROUBLESHOOTING		
STEP	ACTION	\checkmark	
1	Check frequency setting		
2	Check battery: charge-new		
3	Check antenna: upright-clear		
4	Check ALL connections from battery through to antenna: clean-dry-tighten		
5	Check ALL power and position switches		
6	Replace CVC or handset		
7	Check distance/position for terrain mask; move if needed		
8	Check antenna top section: repair if broken-replace if lost		

	SPLICING FIELD WIRE	
ITEM	ACTION	\mathbf{V}
1	Prepare conductors for splicing:	
	Untwist both ends of wire,	
	remove insulation	
	Cut 6" back from one side of	
	each pair so lengths are	
	uneven	
2	Splice: Tie long conductor of 1	
	pair to short conductor of other	
	in square knot. Repeat for	
	second pair	
CONDUCT		X
2	12-3	1

	SPLICING FIELD WIRE	
ITEM	ACTION	\mathbf{V}
3	Secure splices:	
	Separate steel strands from copper, cutting steel even with insulation	
	Cross left hand end of copper strands over top of knot; wrap over bare portion of right hand conductor	
	Continue for two wraps; cut off excess copper	
	Repeat for right hand end	
4	Tape splices:	
	Start at center of splice & wrap tape to cover 1 1/2" of insulation at one end	
	Work tape back over center of knot to cover other side	
	Retape back to center	

INSTALLING COMMO LINES		
STEP	ACTION	
1	Test field wire on reel: attach telephone sets to ends; if commo check clear, install wire.	
2	Installing field wire: tie to fixed object to start & end (allow slack); tie several places at ground level	
3	Attach wire tags at road crossings, telephones & test stations, both sides of buried or aerial crossings, locations with several lines.	
4	Test wire line after buried or aerial crossings, before & after splicing new reel, before connecting line to switchboard.	
<u>ົ</u>	40.5	4

CROSSING OBJECTS WITH COMMO LINES		
STEP	ACTION	\checkmark
1	Culvert: Attach wire tag on each side of road, pass wire thru culvert, add protective tape at ends of culvert.	
2	Aerial crossings: Clear roads by at least 7m, using trees or poles to raise wire. Use lance poles if needed.	
3	Buried crossings: Dig 6-12" deep trench extending beyond each side of road, lay wire loosely, tag, backfill.	
4	Railroad crossing: Cut enough wire to reach across tracks, pull under tracks & secure with stakes along crossties. Splice to wire reel; bury exposed wire.	

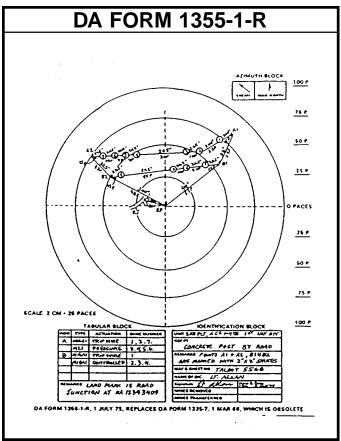
MESSENGER BRIEFING

- 1. Name/location of person to receive message.
- 2. Route to follow.
- 3. Danger points to avoid.
- 4. Speed required.
- 5. Is answer required?
- 6. Action if message cannot be delivered.
- 7. Special instructions.
- 8. Content (if required).
- 9. Report destination at OP/lines.
- 10. Challenge/Password.

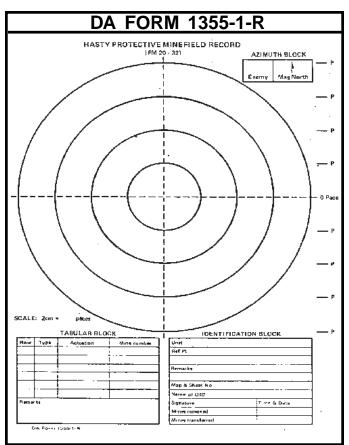
INSTALL/REMOVE HASTY PROTECTIVE MINEFIELD		
STEP	ACTION	\checkmark
1	Report intention/get authorization to lay minefield	
2	Recon for best sites, under unit observation/fire, integrating with other defense plans	
3	Report initiation of field; place in irregular pattern on avenues of approach	
4	Record Field on DA 1355-1-R	
5	Arm mines - from enemy side to friendly side	
6	Report completion of field; warn adjacent units	
7	Retain DA 1355-1-R as long as unit/field stay in place; if field abandoned forward to Cdr	
<u> </u>		

	NSTALL/REMOVE HASTY PROTECTIVE MINEFIELD
STEP	ACTION
8	Removal: if DA 1355-1-R not available, treat as enemy field and use breaching techniques
9	Remove mines in order using azimuths and distances from DA 1355-1-R
Notes	-
3	13-2





13-3



13

BREACHING AND CLEARING MINEFIELDS		
STEP	ACTION	\mathbf{V}
1	Suppress enemy covering obstacles	
2	Obscure area with smoke	
3	Secure near side	
4	Reduce obstacle-blow or probe lane through	
5	Secure the far side	
6	Blow marked mines in place (time permitting)	
7	Mark cleared lane	
8	Move unit through obstacle	

NON	NONELECTRIC FIRING SYSTEM		
STEP	ACTION	\checkmark	
1	Determine length of fuse needed		
	Cut & discard 6" length; cut off 3' length to determine burn rate		
	Light fuse end and list time it takes to burn		
	Compute burn rate per foot (time/burn rate)		
2	Determine amount of explosive needed		
3	Cut fuse to proper length & pass end thru priming adapter		
4	Attach M60 fuse igniter: unscrew fuse holder cap, press shipping plug into igniter, rotate & remove plug, insert fuse in fuse hole, tighten cap		
<u> </u>		4	

STEP	ELECTRIC FIRING SYSTE ACTION	V
5	Attach blasting cap to fuse Inspect open end, remove debris by tapping or shaking gently Hold fuse vertically with square end up Slip cap down over fuse so cap & fuse are in contact Turn cap out & away from body & crimp cap at point 1/8-1/4" from open end	
6	Pull pin to detonate charge	
Notes	5:	
ــــــ 3	13-7	

NONELECTRIC/ELECTRIC PRIMING OF DEMO BLOCK

Note: prime by wrapping demolition blocks with detonating cord, by inserting knot of detonating cord into plastic explosive, by lacing cord thru dynamite, 40-pound cratering charges or shaped charges

	-	
STEP	ACTION	\checkmark
1	Prime with threaded cap well & priming adapter:	
	<u>Non-electric</u> inspect cap well, insert cap with fuse into cap well, screw in adapter	
	<u>Electric</u> after inspection, fasten free ends of cap lead wire to firing wire & pass thru adapter slot, pull cap into place, then finish as above	
2	42.0	1

	NONELECTRIC/ELECTRIC		
	RIMING OF DEMO BLOCK		
STEP	ACTION	V	
2	Prime with threaded cap well without priming adapter: <u>Non- electric</u> inspect cap well, wrap & tie string around block, leaving excess, insert blasting cap with fuse into cap well - use loose string to keep cap from separating from block. <u>Electric</u> after inspection, fasten free ends of cap wire to firing wire, pass lead wires thru adapter slot & insert electric cap into cap well, tie lead wires around block, allowing slack.		
3	Prime without threaded cap well or priming adapter: <u>Non-</u> <u>electric & electric</u> make hole with M2 crimpers, then follow step 2.		
13	13-9		

CLEAR NONELECTRIC/ELECTRIC MISFIRES

Note: If possible, misfire should be cleared by soldier who placed the charge

	······································	
STEP	ACTION	\checkmark
1	NON-ELECTRIC - Wait 30 minutes after misfire before moving to charge	
2	ELECTRIC - If dual primed with non- electric system, wait 30 minutes. Check firing wire connections, make 2-3 more attempts to fire; disconnect firing wire from blasting machine & shunt wires; check entire system for breaks/shorts	
3	UNTAMPED - Without moving or disturbing misfired charge, detonate 1-pound charge at side TAMPED - Dig within 1 foot of mis- fired charge; detonate a 2-pound charge on top of misfired charge	
3	13-10	1

EL	ECTRIC FIRING SYSTEM	_
STEP	ACTION	N
1	Check firing wire with M51 test set or galvanometer; lay out from charges to firing position	
2	Test electric blasting cap; twist free wire ends together	
3	Move to firing point & test entire circuit	
4	Test blasting machine/depress handle	
5	On order, connect lead wires to 2 blasting machine posts & detonate charge	
Notes	:	
3	13-11	

RUL	RULES OF ENGAGEMENT(ROE)		
ITEM	DESCRIPTION		
1	Rigidly enforce the Rules of Engagement devised and disseminated by higher		
2	Leaders will take steps necessary & appropriate for unit' <u>s self-defense</u>		
3	Use <u>minimum</u> force necessary to control the situation and accomplish the mission		
4	Individuals apply common sense		
5	Minimize risk to innocent civilians without endangering the mission		
6	Train to specific ROE using vignettes and dilemmas		

AREA ASSESSMENT CHECKLIST		
ITEM	DESCRIPTION	\checkmark
1	Where are refugees from? Size & area of population	
2	What is food & water status?	
3	What is medical status?	
4	What civilian organizations exist; who are the leaders?	
5	What civil/military organizations exist; who are the leaders?	
6	What organization/leadership do most of the people support?	
7	What UN relief agencies are in operation?	
8	What is the security situation?	

14

AREA ASSESSMENT CHECKLIST		
ITEM	DESCRIPTION	\checkmark
9	What commercial or business activities are there?	
10	Which groups are most in need?	
11	What civil projects would leaders like to see accomplished?	
12	How many families are involved?	
13	What food is available and what does it cost?	
14	What skilled labor and services are available?	
15	What is the size and composition of the transient population?	

CHECKPOINT/ROADBLOCK PIR CHECKLIST		
ITEM	TO BE REPORTED	\checkmark
1	Number & type of vehicles stopped; markings, license number, signs	
2	Number of passengers per vehicle; ages, genders	
3	Type and quality of cargo	
4	Point of origin & destination	
5	Stated reason for passenger travel	
6	Any weapons found	
7	Any passenger reports of sightings of weapons, technical equipment or bandits	
-		-

CHECKPOINT/ROADBLOCK PIR CHECKLIST		
ITEM	TO BE REPORTED	\checkmark
8	Condition of passengers (general health, dress, attitude)	
9	Anything unusual observed/ reported by passengers	
1	14-5	1

WWW.SURVIVALEBOOK

AIRCRAFT TR	OOP
COMMANDER B	RIEFING

2. Bump plan (for individuals/loads) ____

3. Use of safety belts _____

4. Preflight safety inspection of troops _

5. In-flight procedures _____

6. Downed aircraft procedures _____

7. Offloading procedures _____

8. Movement from the LZ/AZ_____

SAFETY BRIEFING CHECKLIST		
ITEM	ACTION	$\mathbf{\nabla}$
1	Wear ID tags, earplugs, helmets, when in/near aircraft	
2	Never approach rotary wing air craft from rear or front; always from sides	
3	Approach/depart in a crouch on down slope side to ensure clearance	
4	Keep sleeves rolled down	
5	Carry weapons without bayonet, safety on, bolt closed, chamber empty, muzzle DOWN	
6	Bend or tie down radio antennas	
7	Fasten seatbelts & leave buckled until crew chief signals exit	
8	Maintain written manifest (unit, rank, full name, SSN) separate from aircraft	

REVERSE PLANNING SEQUENCE		
ITEM	ACTION	\checkmark
1	Ground tactical plan	
2	Landing plan	
3	Air movement plan	
4	Loading plan	
5	Staging plan	

Notes:

G	GROUND TACTICAL PLAN CONSIDERATIONS		
ITEM	CONSIDERATION	\checkmark	
1	Missions of all force elements and methods of employment		
2	Zones of attack, sectors, or areas of operations with graphic control measures		
3	Task organization to include command relationships		
4	Location and size of reserves		
5	Fire support to include graphic control measures		
6	Combat service support to include resupply, evacuation, and plans to sustain the force		

ITEMCONSIDERATIONV1Supports ground tactical plan2Availability, location & size of LZ3Force is vulnerable during landing4Elements must land with tactical integrity5Inform all troops if landing direction changes6Force must land prepared to fight in any direction7Offer flexibility for options in scheme of maneuver8Plan supporting fires in and around each LZ for next lifts and on objective	LANDING PLAN CONSIDERATION		
 Availability, location & size of LZ Force is vulnerable during landing Elements must land with tactical integrity Inform all troops if landing direction changes Force must land prepared to fight in any direction Offer flexibility for options in scheme of maneuver Plan supporting fires in and around each LZ for next lifts and on objective 	ITEM	CONSIDERATION	\checkmark
 3 Force is vulnerable during landing 4 Elements must land with tactical integrity 5 Inform all troops if landing direction changes 6 Force must land prepared to fight in any direction 7 Offer flexibility for options in scheme of maneuver 8 Plan supporting fires in and around each LZ for next lifts and on objective 	1	Supports ground tactical plan	
Ianding4Elements must land with tactical integrity5Inform all troops if landing direction changes6Force must land prepared to fight in any direction7Offer flexibility for options in scheme of maneuver8Plan supporting fires in and around each LZ for next lifts and on objective	2	Availability, location & size of LZ	
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direction changes6Force must land prepared to fight in any direction7Offer flexibility for options in scheme of maneuver8Plan supporting fires in and around each LZ for next lifts and on objective	4		
fight in any direction7Offer flexibility for options in scheme of maneuver8Plan supporting fires in and around each LZ for next lifts and on objective	5	• •	
scheme of maneuver8Plan supporting fires in and around each LZ for next lifts and on objective	6	• •	
around each LZ for next lifts and on objective	7		
	8	around each LZ for next lifts and	
9 Provide for resupply & medical evacuation by air	9	Provide for resupply & medical evacuation by air	

	LANDING ZONE SELECTION CRITERIA		
ITEM	CRITERIA		
1	Location (based on METT-T) & capacity (size)		
2	Alternates (one per primary LZ)		
3	Enemy disposition/capabilities		
4	Cover/concealment		
5	Obstacles		
6	Identification from air		
7	Approach/departure routes		
8	Weather/surface/slope		

AIR ASSAULT PZ/LZ PLANNING CONSIDERATIONS		
ITEM	CONSIDERATION	V
1	PZs: Minimum movement; access to support assets; masked from enemy observation; outside the range of enemy artillery	
2	LZs: Locate on, close by, or some distance away from the objective (based on METT-T); size determines how much combat power can be landed; deny enemy observation, acquisition, and ADA; land on enemy side of obstacles; avoid exposing aircraft.	
3	Reduced visibility may limit or preclude use	

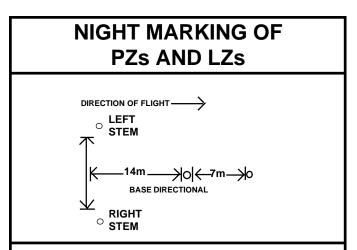
EXTRACTION LOADING PLAN REQUIREMENTS		
ITEM	REQUIREMENT	$\overline{\mathbf{V}}$
1	PZ locations, primary & alternate	
2	PZ security	
3	PZ control party organization & location	
4	Fire support	
5	Sequence of extraction: main body, PZ control party, security force	
6	Movement to PZ: route & order	
7	Loading priorities	
NOTE: PZ TIME IS CRITICAL FACTOR		

LEADER DUTIES IN AIR		
	ASSAULT OPERATIONS	
ITEM	DUTY	
1	Senior person in each lift located with air mission cdr for C3	
2	Set up PZ, supervise marking/ clearing of obstacles w/PZCO	
3	Brief all chalk leaders	
4	Supervise conduct of rehearsals	
5	Supervise security, movement of personnel & equipment, placement of chalks and slingloads on PZ	
6	Devise & disseminate bump plan	
7	PZ Control Officer (PZCO)/control party: Ensure PZ is cleared; plan/ initiate fire support & security; establish commo nets; lead aircraft signalman responsible for visual landing guidance for lead aircraft	

-	CHALK LEADER DUTIES/ PLATOON AIR ASSAULT		
ITEM	DUTY	\checkmark	
1	Brief chalk & attachments on loading plan, tasks & positions inside aircraft		
2	Ensure soldiers maintain assigned areas for local security		
3	Supervise loading of personnel; ensure all in assigned positions & buckled in		
4	Keep current on location with map & crew		
5	Ensure personnel exit quickly, rush to safe distance (10-15m), assume prone position & prepare to return enemy fire. Ensure lights/panels emplaced		

	SET UP A HELICOPTER LANDING SITE		
STEP	ACTION	\checkmark	
1	Select & secure landing site; size depends on number & type of helicopters		
2	Ground slope of site must be no more than 15 degrees. If less than 7 degrees, land upslope; if 7-15 degrees, land sideslope		
3	Ensure surface conditions free of rocks and debris; avoid dust, sand & snow		
4	Ensure ground firm enough to keep helicopter from bogging down during loading/unloading		

	SET UP A HELICOPTER LANDING SITE		
STEP	ACTION		
5	Remove obstacles on approach/ deprture ends and clearly mark obstructions that cannot be removed. Ensure sufficient runway to clear obstacles, 10:1 horizontal clearance to vertical obstruct		
6	Mark landing site and touch- down point based on mission, capabilities & situation. Use smoke, signalman, lights; at night mark touchdown point with inverted Y composed of 4 lights.		
5	15-12	1	



NOTES: The aircraft touch down point will be midpoint on the legs of the Y. If more than 1 will land in the same PZ or LZ, add 1 more light for each. For OH-, UH-, and AH-acft, mark each additional landing point with 1 light at the exact point each acft is to land. For CH-acft, mark each additional point with 2 lights placed 10mm apart and aligned in the acft direction of flight.

EVA	LUATE A CASUALTY/FIRST A	D
STEP	ACTION	\checkmark
1	Airway - clear and maintain	
2	Bleeding - stop	
3	Cover & protect wound	
4	Prevent or treat shock	
5	Check for fractures, burns, concussion	
6	Avoid moving suspected neck or back injuries	
7	Do not give water to abdominal wound except to moisten lips	
8	Seek medical aid	
Notes		

SHO	SHOCK - SYMPTOMS/FIRST AID		
STEP	ACTION	\mathbf{V}	
1	Look for anxiety, agitation, confusion, pale, clammy, blotchy wet skin, nervousness, thirst, nausea, loss of blood, rapid shallow breathing		
2	Move to covered area. Lay patient on back, elevate feet, loosen clothing. Keep warm or cool depending on weather		
3	Calm patient		
4	Seek medical aid		
Notes	:		
		_	

~	16-3	
Notes	:	
3	Seek medical aid if unconscious	
2	Move patient to shade, loosen clothing. If patient conscious, medical personnel give salt water slowly over next 12 hours. Watch for continued symptoms	
1	Look for moist pale, clammy wet skin, muscle cramps, sweating & thirst, headache & dizziness, faintness, weakness & nausea	
STEP	ACTION	$\overline{\mathbf{V}}$
	T EXHAUSTION/HEAT CRAMP	C

HE	HEAT STROKE/SUN STROKE		
NOT	NOTE: This is a medical EMERGENCY		
	and potentially fatal		
STEP	ACTION		
1	Look for hot, dry, bright pink skin, high temperature,		
	dizziness, nausea, fast pulse,		
	delerium, no sweating.		
2	Lower body temperature IMMEDIATELY by immersion in water, fanning, use ice if		
	available. Remove clothing. Give cool salt water if conscious.		
3	Seek medical aid; evacuate as URGENT; continue to cool.		
Notes	:		
~	16-4	4	

	FROSTBITE		
STEP	ACTION	\mathbf{V}	
1	Look for redness, or grey or waxy skin, frequently numb or itchy, blisters, areas of skin that are unnaturally firm, or tender and swollen.		
2	Shelter victim; keep warm with clothing or body heat; insulate from ground. Remove clothing from affected part; wrap loosely in dry sterile dressing. Do not massage area or break blisters or further injury may result.		
3	Seek medical aid; treat as litter casualty		
Notes	:		
~ _	10 5		

HYPOTHERMIA/COLD WEATHER INJURY		
STEP	ACTION	\checkmark
1	Look for lowered body temp, violent uncontrolled shivering, lack of coordination, memory loss, irrationality, lethargy, slurred speech	
2	Move victim to sheltered area, cover and warm. Force conscious patient to drink quarts of heavily sugared liquids, hot if possible. Replace wet clothing with dry if possible; use sleeping bag to insulate from ground. Keep patient awake and drinking fluids. Do not rub or give alcohol. Start treatment before evacuation; evacuate when stable.	
3	Seek medical aid.	
	16.6	

REQ	REQUEST ARMY AIR MEDEVAC		
NOT	E: Send secure or encrypt all item	s.	
LINE	ITEM	\checkmark	
1	Location of pick-up site		
2	Pick-up site radio frequency, call sign, and suffix		
3	# of patients by precedence (urgent, priority, routine)		
4	Special equipment required		
5	# of patients by type (litter, ambulatory)		
6	Security of pick-up site		
7	Method of marking pick-up site		
8	Patient nationality and status		
9	NBC considerations		

CONTINUOUS OPERATIONS (CONOPS) PLANNING		
STEP	ACTION	\checkmark
1	Set up and ENFORCE an eating and sleeping schedule for ALL personnel	
2	Include OPORD and movement times in warning orders so sleep can be scheduled	
3	Keep orders simple and clear; insist on briefbacks	
4	Do not permit sleeping in or near vehicles; move to safe place	
5	Recognize symptoms of sleep loss: not alert, slow response time, forgetful, mood change, short attention span, irritable	

CONTINUOUS OPERATIONS (CONOPS) PLANNING		
STEP	ACTION	$ \mathbf{V} $
6	Recognize symptoms of stress: frustration, anger, tired even after rest, physical problems interfering with eating & sleeping, lack of confidence, forgetfulness	
7	Situation permitting, deal with stress. Give immediate attention, reassurance; rest and food. Pair with buddy	
8	REINFORCE eating/sleeping schedules for all personnel, especially leaders	

HEAT PRECAUTIONS			
HEAT	WATER	WORK/REST	
CATEGORY	INTAKE	CYCLE(min)	
1	1/2 QT/HR	CONTINUOUS	
2	1/2 QT/HR	50 work/10 rest	
3	1 QT/HR	45 work/15 rest	
4	1 1/2 QT/HR	30 work/30 rest	
5	2 QT/HR	20 work/40 rest	

Note: MOPP gear or body armor will increase effects of heat. Watch for dehydration

VEHICLE RECOVERY PROCEDURE CHECKLIST

DANGER: Ensure unprotected troops at safe distance

ITEM	PROCEDURE	\mathbf{V}
1	Recon the area	
2	Estimate the situation	
3	Calculate the ratio (resistance divided by effort)	
4	Obtain resistance	
5	Verify solution	
6	Erect rigging	
7	Recheck rigging	
8	You are ready	
Notes		

		VEHICLE RECOVERY FUNDAMENTALS
ľ	ITEM	FUNDAMENTALS
	1	Load resistance: • Overturned - 1/2 vehicle weight • Nosed (grade) - vehicle weight • Wheel deep - vehicle weight • Fender deep - double vehicle wgt • Turret deep - triple vehicle weight
	2	Mechanical advantage: divide load resistance by available effort (capacity of winch)
	3	Rigging: attach tow cables to TOW HOOKS, not lifting eyes or towing pintle
	4	Safety: • Cross TOWING cables to prevent tangling & keep vehicles aligned • Position hook with throat (open part) UPWARD
17	7	17-2 1

-	
	VEHICLE RECOVERY
	FUNDAMENTALS
ITEM	FUNDAMENTALS
4	Safety (continued): • Use heavy leather palmed gloves when handling cables/wire ropes • Place safety keys in hooks/ shackles/equipment requiring them • Do NOT apply loads suddenly • No smoking/open flame if fuel or oil has spilled
Notes	::
└─── 7	17-3

		ENGAGING AIRCRAFT			
	NOTE	NOTE: In the absense of unit SOPs			
	STEP	STEP ACTION			
	1		e all attacking aircraft & sters positively identified ile		
	2		e when friendly ADA units Jaging enemy in your area		
	3		e enemy jet aircraft not ng your position only after d to fire		
	WEAPONS CONTROL ST		S CONTROL STATUS		
	Wpns FREE		Fire at any aircraft not identified as friendly		
	Wpns	TIGHT	Fire only at aircraft POSITIVELY identified as HOSTILE		
	Wpns	HOLD	Fire only in self-defense		
1	18 18-1			1	

AIR DEFENSE WARNING			
WARNING	MEANING		
RED	Attack is IMMINENT or IN PROGRESS		
YELLOW	Attack is PROBABLE		
WHITE	Attack is improbable		
LOCAL AIR DEFENSE WARNING (LADW)			
WARNING	MEANING		
DYNAMITE	Aircraft inbound & attacking; response is immediate		
LOOKOUT	Aircraft in area of interest but not threatening OR inbound but there is time to react		
SNOWMAN	No aircraft pose threat at this time		
0	10.2 1		

ENGAGEMENT/LEAD DISTANCES

High performance aircraft; Two football field "lead"; fire on automatic

Low performance/rotary wing: one half football field "lead"; fire on automatic

Aircraft coming directly at you: fire full automatic at nose

Notes:

	PASSIVE AIR DEFENSE MEASURES	
ITEM	ACTION	V
1	Use covered & concealed routes and stationary positions	
2	Cover glass & camouflage vehicles; do not skyline or outline; do not look at unless firing	
3	Maintain COMSEC & air guards	
4	Specify visual & audible air warning signals in unit SOP	
5	Enforce noise, light, litter discipline	
Notes		
<u> </u>	18-4	1

_			
	BUILT-UP AREA FIGHTING PRINCIPLES		
ITEM	PRINCIPLE	\checkmark	
1	Attack rapidly, in depth, to dominate killing areas, use masking smoke		
2	Clear each house thoroughly/ consolidate		
3	Keep equipment light		
4	Plan for casualty/EPW armored evac		
5	Clear streets, houses, buildings and basements		
6	Mark cleared structures		
7	Wear body armor, use armored vehicles as transports/moving shield, sand-bag/harden thinskin vehicles		
8	Employ shock-producing weapons to reduce enemy strongpoints		
9	Employ expertise/equipment of combat engineers		
0	10.1	1	

ATTA	ATTACK AND CLEAR A BUILDING		
STEP	ACTION	\mathbf{V}	
1	Organize unit into assault force and support force		
2	Designate special wpns/teams		
3	Support force ISOLATES bldg from overwatch position, covering smoke and fire		
4	Support force suppresses enemy in bldg and near by to cover assault force's move		
5	Support force resupply ammo, replace personnel, evacuate wounded/EPWs		
6	Aslt force ENTERS bldg at highest level possible to gain foothold or mouseholes into unexpected wall		
7	Aslt force CLEARS building room-by-room, by grenade or burst of fire		
8	Aslt force marks each room/ each building when cleared		

ORG	SANIZE BUILDING DEFENS	SE
STEP	ACTION	\checkmark
1	Select building(s) to defend by considering	
	Protection/Dispersion from enemy weapons/flamability	
	Concealment	
	Fields of Fire	
	Observation	
	Covered routes	
	Building strength/Fire hazard	
	Time available	
2	Position teams/vehicles	
3	Plan for/register indirect fires	
4	Select/prepare primary/alternate/ supplementary psns for key dismounted weapons, escape route from building	

ORG	ORGANIZE BUILDING DEFENSE		
STEP	ACTION	\mathbf{V}	
5	Prepare rooms in building(s)		
	Stockpile supplies		
	Establish CP/OPs		
	Set up wire commo lines		
	Cover floors with sand/dirt		
	Reinforce/camouflage psns		
6	Prepare outside of building(s)		
	Emplace mines/obstacles to cover deadspace/approaches/ passages		
	Cover all mines/obstacles by observation and fire		
7	Inspect preparations		
Notes	:		
		_	

	PRINCIPLES OF THE		
	LAW OF WAR		
STEP	PRINCIPLE	\mathbf{V}	
1	All US/NATO ammo & weapons are lawful; do not alter.		
2	Do NOT fake surrender, use enemy uniforms, booby trap personnel or use medical symbols to deceive.		
3	Attack only combat targets, using only mission essential firepower, avoiding needless destruction and unnecessary suffering.		
4	Non-combat targets include the following: those surrender- ing, captives, the sick, the wounded; medical personnel, medical vehicles and medical		
	20.1	~	

	PRINCIPLES OF THE LAW OF WAR	
STEP	PRINCIPLE	\checkmark
	buildings; undefended civilian buildings and monuments.	
5	Provide for the humane treatment and protection of all captives & non-combatants.	
6	Disposition of property: tag and turn in captured or abandoned military property; safeguard valuable abondoned private property; do not loot.	
7	Adherence to the Law of War supports tactical and strategic mission goals. Identify and report all violations.	
	20-2	2

	R	ULES OF ENGAGEMENT (ROE) ANDTHE LAW OF WAR
	1	ROE are internally imposed restrictions upon the use of force
	2	ROE may restrict actions allowable under the Law of War
	3	ROEs are General Orders providing specific guidance for specific operations; they are NOT interchangeable.
	4	Violations of a ROE are not necessarily violations of the Law of War, but are punishable under the UCMJ as violations of a General Order
	5	Central to every ROE: The right to self-defense is <u>never</u> denied; use the <u>minimum</u> force required to complete your mission.
2	0	20-3 2

17584	PRISONERS OF WAR	Τ.
ITEM	ACTION	
1	SEARCH- remove, tag & mark	
	weapons, documents; return	
	personal items, helmet, NBC gear	
		╉
2	SEGREGATE - by rank, sex,	
	military, civilian	
3	SILENCE - no talking	
4	SPEED - from battle area	
5	SAFEGUARD - to prevent harm	
	or escape	
Notes	:	

WWW.SURVIVALEBOOK

	SPOT REPORT/SALUTE	
LINE	ITEM	
1	Size	
2	Activity	
3	Location	
4	Unit/Uniform	
5	Time observed	
6	Equipment	

FIND UNKNOWN RANGE USING MIL RELATION "WORM" FORMULA

NOTE: For MIL Relation Formula, the width or length of the target (W) must be known.

STEP	ACTION
1	Measure the target width using binoculars' mil scale (ŋ/)
2	Divide target width in meters (W) by mil width (p) to find range (R)
3	Round R to nearest tenth; mutiply by 1000 for range to target
4	Remember R = W

CONVERSION TABLE: US TO METRIC TO US

EXAMPLE: Multiply inches by 2.54 to get centimeters; multiply centimeters by 0.394 to get inches.

MULT	Х	=	Х	=
IN	2.54	СМ	0.394	IN
FT	0.305	Μ	3.280	FT
YDS	0.914	Μ	1.094	YDS
MI	1.609	KM	0.621	MI
QTS	0.946	LTR	1.057	QTS
GAL	3.785	LTR	0.264	GAL
ΟZ	28.349	GMS	0.035	ΟZ
LBS	0.454	KG	2.205	LBS
MPG	0.245	KM/LTR	2.354	MPG
MPH	1.609	KM/HR	0.621	MPH
Fahrer	Fahrenheit to Celsius = (F -32) x 5/9			

Celsius to Fahrenheit = (C x 9/5) + 32

	NVERTING AZIMUTHS - GRID
	AGNETIC/MAGNETIC TO GRID
STEP	ACTION
1	GRID TO MAGNETIC: (map to compass) for easterly G-M angle G M subtract G-M angle from grid azimuth; for westerly G-M angle add G-M angle to grid azimuth
2	MAGNETIC TO GRID: (compass to map) for easterly G-M angle add G-M angle to compass azimuth for westerly G-M angle subtract G-M angle from compass azimuth
the Left	Dn G-M angle diagram, if conversion direction is to , ADD; if conversion is to the Right, SUBTRACT left add right subtract Easterly
21	21-4 2

REDUCE RISK OF FRATRICIDE		
ITEM	PRIMARY FACTORS	
1	Mission and C ² High vehicle or wpns density Cdr's intent is unclear or complex Poor flank coordination Crosstalk lacking No habitual relationships	
2	Enemy Weak intelligence or recon Intermingled with friendly	
3	Terrain Obscuration or poor visibility Extreme engagement ranges Navigation difficulty Absence of recognizable features	

RE	REDUCE RISK OF FRATRICIDE		
ITEM	PRIMARY FACTORS		
4	Troops & Equipment High weapon lethality Unseasoned leaders or troops Poor fire control SOPs Incomplete ROE Anxiety or confusion Failure to adhere to SOPs		
5	Time Soldier & leader fatigue Inadequate rehearsals Short planning time		

	RISK MANAGEMENT
1	Risk Management integrated in decision making process
2	Tactical risk due to presence of enemy, nature of operations
3	Accident risk due to friendly personnel, equipment readiness & environmental conditions
4	Hazard - actual or potential condition leading to injury, illness or death of personnel; damage to or loss of equipment/property; mission degradation
5	Determine hazard probability (likelihood that it will occur), severity (degree of injury, property damage or other mission impairing factors), and assess risk by implementing risk management steps.

	RISK MANAGEMENT STEPS
1	Identify hazards - potential sources of danger. Consider all aspects of METT-T: -length & nature (complexity, danger) of operations -factors of supervision (command & control, day/lim vis/night) -soldier experience levels, training status & condition -environment/weather (terrain, heat, cold, haze, dust, mud, fog, rain, snow, ice) -age & maintenance status of equipment -leader rest status & mission prep time
2	Assess hazards & cumulative effect on mission/objective considering probability of causing problems & severity of consequences; qualify risk as extremely high, high, moderate or low
	21-8

	RISK MANAGEMENT STEPS
3	Develop controls to eliminate or reduce risk of hazard - specify who, what, where, when & how, <u>determine</u> <u>residual risk</u> as controls are developed; CDR make decision whether to accept level of residual risk
4	Implement controls; state how communicated & put into effect - SOP, safety briefings, rehearsal
5	Supervise & evaluate -Monitor, follow up, reevaluate plan, make adjustments, incorporate lessons learned
4	Use sample hazard risk assessment matrix

RIS	K	AS	SES	SME	NT N	ΙΑΤΙ	RIX
		Unlikely	Μ	L	L	L	
		Seldom	н	Σ	L		
	HAZARD PROBABILITY	Occasional	Н	Н	Μ	L	
	IAZARD	Likely	Е	н	Ø	L	
	-	Frequent	Ш	Е	н	M	
			Catastrophic	Critical	Marginal	Negligible	
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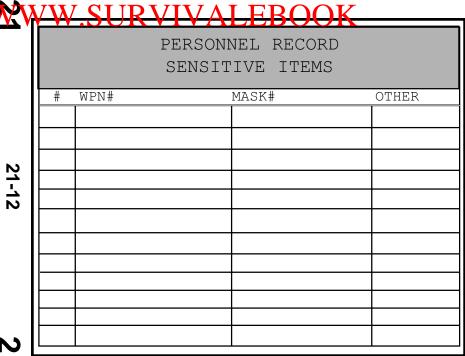
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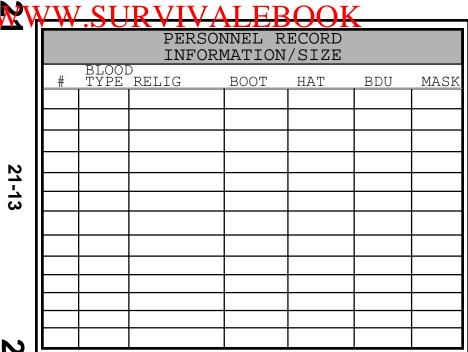
WW.SURVIVALEBOOK PERSONNEL RECORD # NAME SSN RANK

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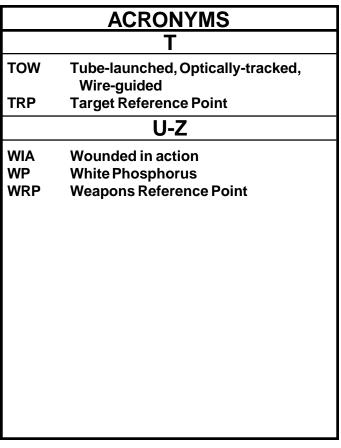
	ACRONYMS
	Α
AA	Assembly Area/Avenue of Approach/ Anti Armor
ACE	Ammo, casualties, equipment
ADA	Air Defense Artillery
AP	Armor piercing
APC AT	Armored Personnel Carrier (M113A3) Antitank
<i>,</i>	Army Tactical Missile System
AVP	Auxiliary Vehicle Power
AZ	Azimuth or Assault Zone
	В
BFV	Bradley Fighting Vehicle (M2/M3)
BMNT	Beginning of Morning Nautical
	Twilight
BN	Battalion
BP	Battle Position
	С
cal	caliber
CAS	Close Air Support
cGy	Centigray

	ACRONYMS
	C
COA	Course of Action
coax	coaxial machinegun
COMSEC	Communications Security
CONOPS	Continuous Operations
СР	Command Post
CQC	Close quarter combat
CS	Combat Support
CSS	Combat Service Support
CVC	Combat Vehicle Crewman
	D-E-F
Dir	Director
Dis	Distance
DTG	Date-Time-Group
EA	Engagement Area
EENT	End of Evening Nautical Twilight
EMP	Electromagnetic Pulse
EPW	Enemy Prisoner of War
FEBA	Forward edge of battle area
FFAR	Folding fin aerial rocket
FPF	Final protective fires
FPL	Final protective lines
FRAGO	o ,
FSO	Fire support officer

	ACRONYMS
	G-H-I
G-M	Grid-Magnetic
GSR	Ground Surveillance Radar
HE	High Explosive
ID	Identification
ITV	Improved Tow Vehicle
	J-K-L
KIA	Killed in action
LADW	Local Air Defense Warning
LAV	Light Armored Vehicle
LD	Line of Departure
log	logistics
LZ	Landing Zone
	Μ
m	meter(s)
ЯÎ	mil
M1/M1A1	Abrams Tank
MEDEVAC	Medical Evacuation
MEL	Maximum Engagement Line
METL	Mission essential task list
METT-T	Mission, enemy, troops, terrain, & time

	ACRONYMS
	Μ
MLRS	Multiple Launch Rocket System
mm	millimeter
MOPP	
MORIREP	Mortar Report
	N
NBC	Nuclear, Biological, Chemical
NOD(s)	Night Observation Device(s)
NVG	Night Vision Goggles
	0
ОСОКА	Observation/fields of fire, Cover & concealment, Obstacles, Key terrain, Avenues of Approach
OBJ	Objective
OJT	On the job training
OP	Observation post
OPORD	Operation Order
ORP	Objective Rally Point

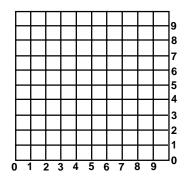
	ACRONYMS
	P
PB	Patrol Base
PIR	Priority information requirements
PMCS	Preventive Maintenance Checks and Services
ΡZ	Pickup Zone
PZCO	Pickup zone control officer
	R
RAP	Rocket Assisted Projectile
ROE	Rules of Engagement
RP	Release Point/Rally Point/Reference Point
R& S	Reconnaissance and Security
	S
SHELREP	Shell Report
SHER	
SHIL	Shillelagh missile
SOI	Signal operation instructions
SP	Start Point
STANO	Surveillance, Target Acquisition and Night Observation





COMBAT LEADERS' GUIDE

1/25,000 OR 1/250,000



1/50,000



READ RIGHT 🔶 THEN UP 🕇

CALL FOR FIRE CARD

۲ dЭ.	ID: (STEPS 4 & 5 ARE OPTIONAL)	
18	WARNING ORDER: AF / FFE / S / IS POLAR / SHIFT (GRID)	
	LOCATION: (POLAR) DIR DIS	
2	(SHIFT) DIR	
4312	L/R +/-	
	(GRID)	
E 99T6	DESCRIPTION:	
Eb ¢ 8	METHOD OF ENGAGEMENT:	
18 8 4	METHOD OF CONTROL:	
ate	DO NOT SAY WORDS IN PARENTHESES	