The Warfighter Handbook





TABLE OF CONTENTS

^	
•	4
	r
	Ċ

1 Cover Page 2-4 Table of Contents 5 The Why 6 Leadership 7 Procedures / Plan Development. 8 Mission Variables. 9 Tactical Mission Tasks. See FM 5-0 (Planning and Orders Production), Chapter 7 (Troop Leading Procedures). See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Tourishing Operations. See FM 1-02.2 (Military Symbols) and Table 5-13 (Enabling Operations Planning Symbols).	.y
5 The Why 6 Leadership 7 Troop Leading Procedures / Plan Development. 8 Mission Variables. 9 Tactical Mission Tasks. See FM 5-0 (Planning and Orders Production), Chapter 7 (Troop Leading Procedures). Variables). See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Tobal Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	.y
6 Leadership Troop Leading Procedures / Plan Development. 8 Mission Variables. 9 Tactical Mission Tasks. See FM 5-0 (Planning and Orders Production), Chapter 7 (Troop Leading Procedures). See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Tobal Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	.y
Troop Leading Procedures / Plan Development. See FM 5-0 (Planning and Orders Production), Chapter 7 (Troop Leading Procedures). See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Tobal Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	.y
7 Procedures / Plan Development. 8 Mission Variables. 9 Tactical Mission Tasks. See FM 5-0 (Planning and Orders Production), Chapter 7 (Troop Leading Procedures). See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	.y
Development. See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). Tactical Mission Tasks. See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Tourish Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	.y
See FM 5-0 (Planning and Orders Production), Appendix A (Operational and Mission Variables). 9 Tactical Mission Tasks. See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Tourish Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	î.y
Variables. Variables. Variables. Variables. Variables. Variables. See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Touch Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	
Mission Variables. Variables). Variables). Variables). See FM 1-02.2 (Military Symbols), Chapter 6 (Tactical Mission Tasks). See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), Touch Table 5-13 (Enabling Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols).	'y
See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), To 5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols).	ty
Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), To 5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols).	ty
Operational Environment), Chapter 4 (Reconnaissance Operations), and Chapter 5 (Securi Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), To 5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols).	ty
Operations). See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), To 5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols).	,
See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), To 5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning Symbols)	,
5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning	able
, , , , , , , , , , , , , , , , , , , ,	
	"
See FM 3-98 (Reconnaissance and Security), Chapter 1 (Cavalry Organizations and the	-
Operational Environment) and Chapter 5 (Security Operations).	•
See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Planning Symbols), To	able
5-12 (Defense Operations Planning Symbols) and Table 5-13 (Enabling Operations Planning	
Symbols).	ا ا
See FM 1-02 2 (Military Symbols). Chanter 2 (Military Unit and Organizational Symbols):	\neg
Common Military 12 Chapter 4 (Equipment Symbols); Chapter 5 (Control Measures and Operational Planning	•
Symbols. Symbols, Tables 5-6 5-9.	•
Common Military See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Operational Planning	\dashv
Symbols. Symbols, Chapter 3 (Control Measures and Operational Planning Symbols), Tables 5-6 5-9.	•
Symbols, Tables 5-6 5-9. Common Military See FM 1-02.2 (Military Symbols), Chapter 5 (Control Measures and Operational Planning	\dashv
Symbols. Symbols, Chapter 3 (Control Measures and Operational Planning Symbols), Tables 5-6 5-9.	•
Symbols, Tables 3-6 5-9. See TC 3-22.240, Appendix C (Machine Gun Theory).	\dashv
See 1C 3-22.240, Appendix C (Machine Guil Medium Guil Medium). See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Appendix A (Direct Fires).	\dashv
See ATP 3-27.6 (Infantity Rifle Platoon) and Squady, Appendix A (Direct Fires). See ATP 3-20.15 (Tank Platoon), Appendix A (Direct Fire Planning and Control).	\dashv
, , , , , , , , , , , , , , , , , , ,	\dashv
See AT 3-21.8 (Infantry Rifle Platoon and Squad), Appendix C, Table C-1 (Machine gun	•
16 US Weapons Systems. technical data).	
See FM 1-02.2 (Military Symbols), Chapter 4 (Equipment Symbols).	
See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Appendix D (Shoulder-Launched Muni	ions
17 US Weapon Systems. and Close Combat Missile System)	
See FM 1-02.2 (Military Symbols), Chapter 4 (Equipment Symbols).	
See FM 3-20.21 (Heavy Brigade Combat Team Gunnery), Chapter 3 (Platform Weapon	
18 US Weapons Systems. Systems Capabilities).	
See FM 1-02.2 (Military Symbols), Chapter 4 (Equipment Symbols).	
See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 5 (Defense), 5-148 (Active an	d
Passive Measures to Avoid Detection).	
19 Stand-To Procedures. See ATP 3-20.15 (Tank Platoon), Chapter 4 (Defense), 4-72 (Occupation Procedures).	
See ATP 3-20.98 (Scout Platoon), Chapter 5 (Basic Scout Skills), 5-15 (Reduce Vehicle-	
Related Signatures).	



WARFIGHTER HANDBOOK DOCTRINAL REFERENCES



TABLE OF CONTENTS

	۸	١	
5	٨	ò	,
ľ	á	١	

PG	TOPIC	REFERENCE
20	Priorities of Work	See TC 3-21.76 (Ranger Handbook), Chapter 7 (Patrols), g (Priorities of work).
		See FM 6-0 (Commander and Staff Organization and Processes), Appendix C (Rehearsals).
		See TC 3-21.76 (Ranger Handbook), Chapter 2 (Operations), 2-13 - 2-15; table 2-1 (Rehearsal
		Area Coordination Checklist); Chapter 11 (Urban Operations), 11-21 - 11-30.
	Rehearsals.	See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 2 (Planning and Preparing for
21	RefleatSals.	Operations), 2-115 2-123.
		See Center for Army Lessons Learned Handbook 19-18 (Commander and Staff Guide to
		Rehearsals: A No-Fail Approach), Chapter 1 (Rehearsal Types, Techniques, and
		Considerations); Chapter 2 (Roles and Responsibilities); Chapter 3 (The Terrain Model);
		Chapter (Executing a Rehearsal); Chapter 5 (Confirmation brief and Backbrief).
		See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 2 (Planning and Preparing for
	Pre-Combat Inspections /	Operations), 2-120 2-123; Table 2-3 (Precombat checks and precombat inspection checklist,
	Pre-Combat Checks.	example).
		See TC 3-21.76 (The Ranger Handbook), Chapter 2
23	Movement.	See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 3 (Movement and Maneuver), 3-38
	WOVETHERE.	- 3-98.
		See FM 3-90 (Tactics), Chapter 2 (Movement and Forms of Maneuver), 2-1 2-23; Figure 2-10
24	Movement.	(Traveling movement technique); Figure 2-11 (Traveling overwatch movement technique); Figure
- 1		2-12 (Bounding overwatch movement technique (alternating bounds)); Figure 2-23 (Bounding
		overwatch movement technique (successive bounds).
25	Mounted Movement.	See "Burn Rate Table."
		See "Burn Rate Table."
26	Soldier Load Management.	See 3-21.18 (Foot Marches) Chapter 3.
		See FM 3-90 (Tactics), Chapter 3 (The Offense).
		See ATP 3-90.4 (Combined Arms Mobility), Chapter 3 (Breaching).
		See ATP 3-90.1 (Armor and Mechanized Infantry Company Team), Appendix C (Combined
		Arms Breach).
27	Fighting on the Offensive.	See ATP 3-20.15 (Tank Platoon), Chapter 3 (Offense); Figure 3-16 (Example of offensive
		control measures).
		See ATP 3-20.15 (Tank Platoon), Chapter 7 (Tactical Enabling Tasks and Activities), 7-144 7-
		168.
		See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 4 (Offense).
		See See FM 3-90 (Tactics), Chapter 4 (The Defense).
28	Fighting in the Defense.	See ATP 3-20.15 (Tank Platoon), Chapter 4 (Defense).
		See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 5 (Defense).
29	Survivability Operations.	See ATP 3-37.34 (Survivability Operations), Chapter 3 (Cover); Chapter 5 (Camouflage).
		See ATP 3-37.34 (Survivability Operations), Chapter 4 (Fighting Positions);
30	Fighting Positions.	See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 5 (Defense).
30		See ATP 3-20.15 (Tank Platoon), Chapter 4 (Defense), 4-69 4-84.
		See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Chapter 5 (Defense), 5-221 – 5-266.
31_		1 // 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
.57-		



WARFIGHTER HANDBOOK DOCTRINAL REFERENCES

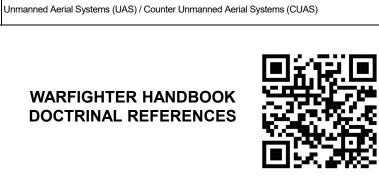


TABLE OF CONTENTS

		A		
	₹	٨	7	
	"	×	М	

4		TABLE OF CONTENTS
PG	TOPIC	REFERENCE
35	Logistics.	See FM 4-0 (Sustainment Operations), Chapter 1, 1-1 1-10; Table 1-1 (Sustainment considerations for imperatives); Figure 5-2 (Example of echeloned support).
	3	See ATP 3-20.15 (Tank Platoon), Chapter 6 (Sustainment/Logistics); Figure 6-1 (Tailgate Resupply); Figure 6-2 (Service Station Resupply).
36	Medical Considerations.	See FM 4-02 (Army Health System), Chapter 1 (Army Health System Overview); Table 1-1 (Health threat); Figure 1-2 (Army Health System support operational framework); Chapter 11
		(Evacuation).
37	Tactical Combat Casaulty Care.	See Center for Army Lessons Learned (CALL) Handbook 17-13 (Tactical Combat Casualty Care: Lessons and Best Practices), Chapter 4 (MARCH/PAWS Treatment Algorithms).
38	Health Service Support.	See FM 4-02 (Army Health System), Chapter 1 (Army Health System Overview); Chapter 5 (Operational Public Health); Appendix D (Medical Intelligence).
39	Medical Reports.	See Center for Army Lessons Learned Handbook 17-13 (Tactical Combat Casualty Care: Lessons and Best Practices), Appendix E (9-Line MEDEVAC Request with MIST Report)
40	Fire Support.	See FM 3-09 (Fires Support and Field Artillery Operations), Chapter 1 (Foundations of Fire Support and the Role of Field Artillery); Appendix A (Development of Essential Fire Support and Essential Field Artillery Tasks), Tables A-3 AA-6; and Appendix B (Fire Support Coordination Measures).
41	Fire Support.	See DA Form 5249 (Conduct of Fire).
41	т пе опррога	See TC 3-21.76 (Ranger Handbook), Chapter 3 (Fire Support).
		See ATP 3-20.98 (Scout Platoon), Appendix A (Analog Reports).
42	Contact Reports.	See FM 6-99 (Report and Message Formats), Appendix A (Voice Message Format Templates).
		See ATP 3-20.98 (Scout Platoon), Appendix A (Analog Reports).
43	Status Reports.	See FM 6-99 (Report and Message Formats), Appendix A (Voice Message Format Templates).
		See ATP 3-20.98 (Scout Platoon), Appendix A (Analog Reports).
44	Status Reports.	See FM 6-99 (Report and Message Formats), Appendix A (Voice Message Format Templates).
		See ATP 3-20.98 (Scout Platoon), Appendix A (Analog Reports).
45	Logistics Reporting.	See FM 6-99 (Report and Message Formats), Appendix A (Voice Message Format Templates).
		See ATP 3-20.98 (Scout Platoon), Appendix A (Analog Reports).
46	Obstacle Reports.	See FM 6-99 (Report and Message Formats), Appendix A (Voice Message Format Templates).
47	Range Card and Sector Sketch.	See ATP 3-21.8 (Infantry Rifle Platoon and Squad), Appendix A (Direct Fires), Section II (Standard Range Card and Sector Sketches); Appendix B (Fire Support Planning), Figure B-7 (Platoon sector sketch), Figure B-8 (Squad sector sketch).
		See ATP 3-20.98 (Scout Platoon), Chapter 4 (Security), 4-130 4-133; Figure 4-20 (Complete range card, example).



Range Card.

WARFIGHTER HANDBOOK DOCTRINAL REFERENCES

See DA Form 5517 (Standard Range Card).

Notes





As the U.S. Army moves further into the twenty-first century, the threat of Large-Scale Combat Operations (LSCO) against near-peer adversaries is greater than at any time since the Cold War. War on a scale not seen since World War II could erupt at any moment. When it does, our nation and Soldiers will expect you to lead them to victory.

Will you be ready?

While the costs of the last 23 years of conflict are well known, the Army has also paid a lesser-known price: a loss of critical combat skills. The Global War on Terror did not mirror the high-intensity combat for which the Army once trained, leading to a gradual erosion of warfighting competence. Observations at Combat Training Centers show that leaders at the platoon level and below often fail to execute the fundamental tasks needed for success in LSCO. Likewise, leaders at higher echelons fail to enforce standards or teach the skills required. Simply put, our Army has forgotten how fight the kind of war we exist to win.

To win the next war, you, the leaders of our smallest units, must master the warfighting skills your predecessors learned in through blood. Right now, many of you lack the knowledge, some the motivation. For those who don't care: your Soldiers will pay the price in blood. Now is the time to step up or step aside. For those who don't know: this handbook is for you. The Warfighter Handbook is designed to guide leaders—regardless of MOS, rank, or environment—in preparing their Soldiers for the next fight by addressing five essential questions:

- 1. Can my Soldiers shoot, move, and communicate with their assigned equipment?
- 2. Can they explain their roles in the next fight?
- 3. Do they have everything they need to win?
- 4. Is my unit synchronized with higher headquarters and adjacent units?
- 5. Can I perform my leader's job now?

In essence, have you done everything to prepare your Soldiers for the next fight?

FIRST LAST Command Sergeant Major United States Army FIRST LAST RANK, BRANCH Position

LEADERSHIP



Leadership is the most essential element of combat power. Leaders provide their Soldiers the purpose, direction, and motivation to prepare for and win in combat. In LSCO, all leaders are responsible for the tactical employment of their units. Warfighting leaders ensure that their units are prepared for the next fight by: ☐ Planning. Leaders receive intent from their Commanders and translate it into action by backwards planning from the required end state. Leaders apply technical competence and experience to address the unique challenges of each mission. ☐ **Prioritizing**. Leaders assign priorities and suspense based on their understanding of the mission, time and resources available, and knowledge of their subordinates' capabilities and statuses. There is never enough time to do everything; leaders decide what must be done and mitigate the risk of what must wait. ☐ **Resourcing**. Leaders request and coordinate support needed to accomplish their assigned missions. Anticipating requirements for classes of supply, transportation, fires, and any other support requires Leaders to understand the mission, the terrain, the ENY, and their own units. ☐ Inspecting. Leaders check to ensure that their subordinates accomplish their assigned tasks on time, to standard, and make corrections as needed. ☐ Communicating. Leaders ensure that their superiors, adjacent units, and subordinates remain informed of their actions and requirements. ☐ Assessing. Leaders continuously assess ENY activity, adjacent unit activity, the effects of weather and terrain, and guidance from their commanders. Most importantly, Leaders assess their Soldiers' statuses (health and welfare, supplies and equipment, training, and endurance under continued strain) to determine

□ Adapting. Leaders take the initiative and adjust their actions when the situation changes to mitigate risk and seize opportunities within the CDR's Intent.

As a Warfighter, if you find yourself uncertain what to do next, ask yourself when the last time you performed each of these actions for your unit was.

whether their Soldiers can accomplish the mission.

TROOP LEADING PROCEDURES/ PLAN DEVELOPMENT



Planning Considerations To ensure success of the ground mission, leaders plan their own missions in detail. The more time they have to make plans, the more detailed plans they can make. As soon as the senior leader receives word of a pending operation, a mission alert is issued, immediately followed with a warning order. Just enough information is issued to allow the subordinate leaders to start preparing for the operation.

6.

Mission analysis answers the 4 questions of the leader's battlefield vision:

- 1. What is my mission?
- 2. What is the current situation?
- 3. How do we accomplish the mission?
- 4. What are the risks? Risk to mission? Risk to force?

1.	Receive the Mission
2	Jesus a Warning Order

- Issue a Warning Order
- 3. Make a tentative plan
- Initiate Movement
- 5. Conduct reconnaissance Complete the plan
- 7. Issue the Operations Order
- 8. Supervise and Refine

Make a tentative plan

- Mission, intent, and concept
- Unit Tasks
 - Specified Tasks
 - Implied Tasks
- Unit Constraints
- Mission essential tasks
 - Analyze the situation and develop a course of action
 - Suitable- Accomplishes mission and supports commander's concept
 - Acceptable- The military advantage gained by executing the course of action must justify the
 - cost in resources, especially casualties. Very subjective.
- What is known about the FNY?
 - Composition- Analysis of what forces and weapons the ENY can bring to bear.
 - Disposition- How is the ENY arrayed?
 - Strength- percentage of strength
 - Recent Activities- Identify future intentions
 - Reinforcement Capabilities- Location of reserves and time for a counterattack
 - Determine the ENY's possible COAs

Supervise and Refine

conditions.

- The leader supervises the unit's preparation for combat by conducting rehearsals and inspections.

- The leader should conduct rehearsals on terrain that resembles the actual ground and in similar light
- Rehearsals are used to-
- Practice essential tasks (improve performance).
- Reveal weaknesses or problems in the plan.
- Coordinate the actions of subordinate elements. .
- Improve Ranger understanding of the concept of the operation (foster confidence).
- The platoon may begin rehearsals of battle drills and other SOP items before the receipt of the . operation order. Once the order has been issued, it can rehearse mission-specific tasks. Some important tasks to rehearse include—
- Actions on the objective.
- Actions at the assault position.
- Breaching obstacles (mine and wire). Using special weapons or demolitions.
- Actions on unexpected ENY contact

WHAT OTHER SPECIFIED TASKS MUST MY UNIT ACCOMPLISH?

UNIT WORK WITHIN FOR THIS MISSION? WHAT IS THE ENY TRYING TO ACCOMPLISH?

CAN THE ENY EMPLOY IN MY UNIT'S AO?

TERRAIN -

OBSTACLES - Where do natural or manmade obstacles

disrupt, fix, turn, or block movement? How can I bypass or

breach these obstacles / prevent the ENY from doing so?

AVENUES OF APPROACH - Where can I or the ENY

natural staging areas near our positions and OBJs?

COVER AND CONCEALMENT - Where can I or the

OBSERVATION / FIELDS OF FIRE - Where can I see

ENY or I maximize the range of our sensors and weapon systems near our positions / OBJs? Where are the

relevant intervisibility lines, natural staging areas, and kill

KEY TERRAIN - Where can I or the ENY gain advantage

WHAT IS THE CURRENT STATUS OF MY SOLDIERS AND THEIR EQUIPMENT?

(ASCOPE) IN THE AO DURING THE NEXT FIGHT MISSION AFFECT OUR MISSION?

THEY WILL DO? WHY? HOW CAN MY UNIT DECEIVE THE ENY ABOUT OUR ACTIONS AND

HOW MUCH TIME IS AVAILABLE BETWEEN NOW AND THE NEXT FIGHT?

HOW MUCH TIME DOES MY UNIT NEED FOR MOVEMENT?

in the next fight? How can my unit gain control of these

places or prevent the ENY from doing so?

the ENY, where can the ENY see me? Where can the

ENY move or fire without being seen or engaged?

zones / engagement areas?

AND SUPPORTING UNITS?

ENY?

THAT TIME?

INTENTIONS?

WILL WE CONVINCE THEM?

move, in what formation, and at what speed? Where are

the natural points of convergence and defiles? Where are

END STATES?

AND WEATHER

ERRAIN

they might affect a mission. Leaders account for the mission variables both when planning their units' actions and when adjusting to new developments. It is equally important to consider the Mission Variables in relation to how they affect friendly forces and the ENY to identify both risks and opportunities.

MISSION VARIABLE (METT-TC (I)) CONSIDERATIONS

WHERE AND WHEN MUST MY UNIT COMPLETE WHAT ESSENTIAL TASK, IN ORDER TO ACHIEVE WHAT

WHAT IMPLIED TASKS MUST MY UNIT ACCOMPLISH IOT ACCOMPLISH OUR SPECIFIED TASKS? WHAT CONSTRAINTS (IN TERMS OF RESTRICTIONS, TASKS, RESOURCES, TIME, OR SPACE) MUST MY

BASED ON THE ENY'S STATUS, DOCTRINE, AND TTPs, HOW WILL THEY TRY TO ACCOMPLISH THEIR

WHAT CAPABILITIES (PARTICULARLY DIRECT FIRE, INDIRECT FIRE, UAS, ELECTRONIC WARFARE,)

WEATHER -

WIND - How will wind affect the ability to employ smoke,

chemical munitions, UAS, or rotary wing aviation? What

VISIBILITY - How will periods of darkness, sources and

accuracy, and functionality of weapons and sensors?

will thermal conditions reduce my unit's or the ENY's

CLOUD COVER - How will the cloud ceiling affect

overhead ISR, movevement, and fires? When are

PRECIPITATION - How will recent or anticipated

precipitation affect movement of troops and vehicles.

signatures of movement (tracks, dust clouds, auditory

signature), the range or accuracy of weapons, and the functionality of sensors or other critical equipment?

ability to fight effectively?

the ENY?

WHAT SUPPORT IS AVAILABLE TO MY UNIT FROM OUR HIGHER HEADQUARTERS, ADJACENT UNITS.

WHAT CAPABILITIES, ASSETS, OR SUPPORT NOT ALREADY IN MY UNIT DO I NEED TO DEFEAT THE

HOW LONG WILL IT TAKE MY UNIT TO PLAN, PREPARE, AND REHEARSE FOR THE NEXT FIGHT?

HOW MUCH TIME DOES THE ENY NEED TO REACT TO MY PLAN, AND HOW CAN MY UNIT DENY THEM

HOW WILL CIVILIAN AREAS, STRUCTURES, CAPABILITIES, ORGANIZATIONS, PEOPLE, AND EVENTS

WHAT DOES THE ENY BELIEVE MY UNIT WILL DO IN THE NEXT FIGHT? WHAT DOES MY UNIT BELIEVE

WHAT DOES THE ENY WANT MY UNIT TO BELIEVE DURING THE NEXT FIGHT, AND HOW WILL THEY TRY TO CONVINCE US? WHAT DO I WANT THE ENY TO BELIEVE DURING THE NEXT FIGHT, AND HOW

TEMPERATURE - How will temperature affect Soldier

fatique, vehicle maintenance, and thermal optics? When

overhead assets available or not availble for my unit and

percentages of illumination (natural and artificial), smoke / fog / precipation affect movement, affect the range,

systems will be available throughout the operation?

PURPOSE?

The Mission Variables describe characteristics of an area of operations (AO), focusing on how

WHAT IS THE ENY'S LAST KNOWN COMPOSITION, DISPOSITION, AND STRENGTH?

WHAT ASSETS OR SUPPORT NOT ALREADY IN MY UNIT DO I NEED TO DEFEAT THE ENY?

TACTICAL MISSION TASKS



Tactical Mission Tasks are the specific activities a unit performs while executing a tactical operation or form of maneuver. The tactical mission tasks describe the results or effects commanders want to achieve. Understanding their unit's actions, their intended effects, and how their actions work as part of a larger plan enables leaders to prioritize, equip, and rehearse before combat, and to execute and adapt in combat.

Reflective Questions □Do all my Soldiers know what their specified tasks are in each phase of the next fight are, what they mean, and how to perform them? □Do all my Soldiers know the specified tasks for the units to their left and right and how our missions support one another? TACTICAL MISSION TASK IN WHICH A A TACTICAL MISSION TASK USING DIRECT AND COMMITTED FORCE FOLLOWS A LEAD FORCE FOLLOW AND ATTACK BY FIRE INDIRECT FIRES TO ENGAGE AN ENEMY FROM A CONDUCTING AN OFFENSIVE OPERATION AND ASSUME CONTINUES THE MISSION IF THE LEAD FORCE CANNOT CONTINUE TACTICAL MISSION TASK THAT DENIES THE A TACTICAL MISSION TASK IN WHICH A BL OCK ENEMY ACCESS TO AN AREA OR AN AVENUE OF FOLLOW AND COMMITTED FORCE FOLLOWS AND SUPPORTS A APPROACH SUPPORT LEAD FORCE CONDUCTING AN OFFENSIVE OPERATION A TACTICAL MISSION TASK IN WHICH A UNIT BREACH BREAKS THROUGH OR ESTABLISHES A PASSAGE A TACTICAL MISSION TASK IN WHICH A UNIT THROUGH AN ENEMY OBSTACLE INTERDICT PREVENTS, DISRUPTS, OR DELAYS THE ENEMY'S USE OF AN AREA OR ROUTE IN ANY DOMAIN TACTICAL MISSION TASK IN WHICH A LINIT A TACTICAL MISSION TASK IN WHICH A UNIT BYPASS DELIBERATELY AVOIDS CONTACT WITH AN SEALS OFF AN ENEMY, PHYSICALLY AND OBSTACLE OR ENEMY FORCE PSYCHOLOGICALLY, FROM SOURCES OF ISOLATE SUPPORT AND DENIES IT FREEDOM OF MOVEMENT A TACTICAL MISSION TASK IN WHICH A UNIT CANALIZE RESTRICTS ENEMY MOVEMENT TO A NARROW TACTICAL MISSION TASK IN WHICH A UNIT NEUTRAL IZE RENDERS THE ENEMY INCAPABLE OF INTERFERING WITH AN OPERATION TACTICAL MISSION TASK IN WHICH A UNIT **ELIMINATES ALL ENEMY FORCES WITHIN AN** CLEAR ASSIGNED AREA A TACTICAL MISSION TASK IN WHICH A UNIT OCCUPY MOVES INTO AN AREA TO CONTROL IT WITHOUT **ENEMY OPPOSITION** TACTICAL MISSION TASK IN WHICH A UNIT CONTAIN STOPS, HOLDS, OR SURROUNDS AN ENEMY FORCE A TACTICAL MISSION TASK IN WHICH A UNIT RETAIN PREVENTS ENEMY OCCUPATION OR USE OF TACTICAL MISSION TASK IN WHICH A UNIT CONTROL MAINTAINS PHYSICAL INFLUENCE OVER AN TACTICAL MISSION TASK IN WHICH A UNIT PREVENTS THE ENEMY FROM DAMAGING OR SECURE DESTROYING A FORCE, FACILITY, OR TACTICAL MISSION TASK THAT PHYSICALLY GEOGRAPHICAL LOCATION DESTROY RENDERS AN ENEMY FORCE COMBAT-INEFFECTIVE UNTIL IT IS RECONSTITUTED TACTICAL MISSION TASK IN WHICH A UNIT TAKES POSSESSION OF A SEIZE TACTICAL MISSION TASK IN WHICH A UNIT DESIGNATED AREA USING OVERWHELMING BREAKS CONTACT WITH AN ENEMY TO CONDUCT DISENGAGE FORCE ANOTHER MISSION OR TO AVOID BECOMING DECISIVELY ENGAGED TACTICAL MISSION TASK IN WHICH A UNIT SUPPORT BY TACTICAL MISSION TASK IN WHICH A UNIT ENGAGES THE ENEMY BY DIRECT FIRE IN UPSETS AN ENEMY'S FORMATION OR TEMPO FIRE SUPPORT OF ANOTHER MANEUVERING FORCE DISRUPT AND CAUSES THE ENEMY FORCE TO ATTACK PREMATURELY OR IN A PIECEMEAL FASHION A TACTICAL MISSION TASK IN WHICH A UNIT TACTICAL MISSION TASK IN WHICH A UNIT SUPPRESS TEMPORARILY DEGRADES A FORCE OR WEAPON REMOVES SOLDIERS OR UNITS FROM AREAS EXFILTRATE SYSTEM FROM ACCOMPLISHING ITS MISSION LINDER ENEMY CONTROL BY STEALTH DECEPTION, SURPRISE, OR CLANDESTINE MEANS A TACTICAL MISSION TASK IN WHICH A UNIT TACTICAL MISSION TASK IN WHICH A LINIT FORCES AN ENEMY FORCE FROM ONE AVENUE PREVENTS THE ENEMY FROM MOVING FROM A SPECIFIC LOCATION FOR A SPECIFIC PERIOD OF APPROACH OR MOBILITY CORRIDOR TO

ANOTHER

ENABLING OPERATIONS



Enabling Operations are operations that set the friendly conditions required for mission accomplishment and include security, reconnaissance, relief in place, and passage of lines. Reconnaissance Operations allow commanders to understand the situation, visualize the battle, and make decisions. Reconnaissance activities are missions and tasks, not unit types; every unit must conduct them using all of the tools are their disposal. Retrograde Tasks enable commanders to protect their units when decisive engagement with the ENY is not advantageous.

Reflective Questions

□Do all my Soldiers know and understand the Commanders Critical Information Requirements, and the indicators associated with them, for the next fight? □Do all my Soldiers know the near, far, and contingency recognition procedures Forward/Rearward Passage of Lines?

RECONNAISSANCE OPERATIONS

A TYPE OF RECONNAISSANCE OPERATION THAT

FOCUSES ON OBTAINING DETAILED

RECONNAISSANCE INFORMATION ABOUT THE TERRAIN OR ENEMY

AREA

ACTIVITY WITHIN A PRESCRIBED AREA

A TYPE OF RECONNAISSANCE OPERATION THAT INVOLVES A DIRECTED EFFORT TO OBTAIN

ZONE DETAILED INFORMATION ON ALL ROUTES, RECONNAISSANCE **OBSTACLES, TERRAIN, AND ENEMY FORCES** WITHIN A ZONE DEFINED BY BOUNDARIES

A TYPE OF RECONNAISSANCE OPERATION TO OBTAIN DETAILED INFORMATION OF A SPECIFIED ROUTE ROUTE AND ALL TERRAIN FROM WHICH THE RECONNAISSANCE ENEMY COULD INFLUENCE MOVEMENT ALONG

THAT ROUTE

RETROGRADE TASKS

WHEN A FORCE UNDER PRESSURE TRADES SPACE FOR TIME BY SLOWING DOWN THE

DELAY

ENEMY'S MOMENTUM AND INFLICTING MAXIMUM DAMAGE ON ENEMY FORCES WITHOUT

BECOMING DECISIVELY ENGAGED

WHEN A FORCE OUT OF CONTACT MOVES AWAY

RETIRE FROM THE ENEMY

TO DISENGAGE FROM AN ENEMY FORCE AND WITHDRAW MOVE IN A DIRECTION AWAY FROM THE ENEMY

TO DISENGAGE FROM AN ENEMY FORCE AND WITHDRAW MOVE IN A DIRECTION AWAY FROM THE ENEMY UNDER PRESSURE WHILE IN CONTACT

NO TASK SYMBOL

NO TASK SYMBOL

NO TASK SYMBOL

ENABLING OPERATIONS Enabling Operations are operations that set the friendly conditions required for



mission accomplishment and include security, reconnaissance, relief in place, and passage of lines. Security Operations provide commanders with reaction time and maneuver space to make decisions and protect the force from anticipated and unanticipated dangers. Retrograde Tasks enable commanders to protect their units when decisive engagement with the ENY is not advantageous.

Reflective Questions □Do all my Soldiers know where our subsequent battle positions are and how to get to

them if there is an order to withdraw or retrograde?

☐ Have all my Soldiers conducted a handover of intelligence, tasks, procedures, and equipment with our RIP partners?

ENABLING OPERATIONS

TYPE OF SECURITY OPERATION THAT PRIMARILY

SCREEN PROVIDES EARLY WARNING TO THE PROTECTED FORCE

A TYPE OF SECURITY OPERATION DONE TO

PROTECT THE MAIN BODY BY FIGHTING TO GAIN TIME WHILE PREVENTING ENEMY GROUND OBSERVATION OF AND DIRECT FIRE AGAINST

GUARD THE MAIN BODY A TYPE OF SECURITY OPERATION DONE INDEPENDENT OF THE MAIN BODY TO PROTECT THEM BY FIGHTING TO GAIN TIME WHILE COVER

PREVENTING ENEMY GROUND OBSERVATION OF AND DIRECT FIRE AGAINST THE MAIN BODY

OCCURS WHEN A UNIT PASSES THROUGH ANOTHER UNIT'S POSITIONS WHILE MOVING

FORWARD PASSAGE OF

LINES TOWARD THE ENEMY

OCCURS WHEN A UNIT PASSES THROUGH

REARWARD ANOTHER UNIT'S POSITIONS WHILE MOVING PASSAGE OF

LINES AWAY FROM THE ENEMY \leftarrow P(R)

AN OPERATION IN WHICH, BY DIRECTION OF HIGHER AUTHORITY, ALL OR PART OF A UNIT IS

REPLACED IN AN AREA BY THE INCOMING UNIT **RELIEF IN PLACE** AND THE RESPONSIBILITIES OF THE REPLACED **ELEMENTS FOR THE MISSION AND THE ASSIGNED** ZONE OF OPERATIONS ARE TRANSFERRED TO

THE INCOMING UNIT

ARTILLERY

WING)

CBRN

CAVALRY

ENGINEER

WARFARE

AIRBORNE

INFANTRY

ELECTRONIC

AIR ASSAULT

(DISMOUNTED) **INFANTRY** (MECHANIZED)

AVIATION (ROTARY-

COMMON MILITARY SYMBOLS



MP

SF

SPT

SUST

Military Symbols provide visual reference for relevant units, locations, and tasks. Leaders create rapidly shared understanding by disseminating unit graphics.

· ·	JNIT STATU	s	TEAM	SQD	5	SEC
FRIENDLY	NEUTRAL	ENY	Ø	•		••
UNIT ECHELONS			PLT	CO		BN
	ABOVE UNI		•••			
	JDE + OR - F					
_	VE BEEN RE UCED IN STI					
OR RED	OCED IN STR		TYPE			
	(MC	DDIFIER INS	IDE UNIT SYI	MBOL)		
AIR DEFEN	SE		INFANTRY (STRYKER		%	≫
AIR DEFEN (SHORT-RA			WHEELED		0	0 0
ANTI-ARMO	DR	\wedge	TOWED		0	0
					1	1

MAINTENANCE ARMOR

MEDICAL

MORTAR

SIGNAL

SUPPORT

UAS

SUSTAINMENT

TRANSPORTATION

EW

MILITARY POLICE

SPECIAL FORCES

commander

ofattack

START POINT (SP) - designated place on a route where

POINT OF DEPARTURE - point where the unit crosses

the line of departure and begins moving along a direction

DECONTAMINATION POINT - location where resources

for absorbing, destroying, neutralizing, or removing CBRN

contamination (E/T designates sites for equipment /

AMBULANCE EXCHANGE POINT (AXP) - location

where a patient is transferred from one ambulance to

assembled for evacuation to a medical treatment facility MAINTENANCE COLLECTION POINT (MCP) -

LOGISTICS RELEASE POINT (LRP) - point where unit

distribution vehicles are met by company representative

for further movement forward and subsequent distribution

designated location through which a unit passes where it

receives fuel, ammunition, and other necessary supplies TRAFFIC CONTROL POINT (TCP) - manned postthat

COORDINATION POINT - point that indicates a specific location for the coordination of tactical actions between

is used to preclude the interruption of traffic flow or

movement along a designated route

adjacent units

REARM, REFUEL, AND RESUPPLY POINT -

temporarylocation established within the battalion

echelon for the collection of equipment needing or

undergoing field maintenance

another en route to a medical treatment facility CASUALTY COLLECTION POINT (CCP) - location that may or may not be staffed, where casualties are

elements fall under the control of a designated march

COMMON MILITARY SYMBOLS



PL RED (LD

PL RED

PL RED

PL RED (LOA)

PL RED (LOA PL RED (RFL)

PL

LOA

RFL

A

T

N

W

W1

W W1

Military Symbols provide visual reference for relevant units, locations, and tasks. Leaders create rapidly shared understanding by disseminating unit graphics.

MODIFIER SYMBOL **POINTS** MODIFIER SYMBOL FORWARD LINE OF OWN TROOPS (FLOT) - indicates $\wedge \wedge \wedge$

CHECK POINT - point on the ground used to control

CP / CKP the most forward position of friendly forces in any kind of military operation at a specific time

BATTLE FIELD HAND OVER LINE - designated phase LU line where responsibility transitions from the stationary force to the moving force and vice versa LINE OF DEPARTURE (LD)-line designated to

RELEASE POINT (RP) - place on a route where RP LD elements are released from centralized control coordinate the departure of attack elements

PO

AXP

LRP

TCP #

movement, tactical maneuver, and orientation PL RED (RLOT) PL RED (BHL) LINKUP POINT - designated place where two forces are BHL scheduled to meet PL RED (BHL PL RED (LD

operations

must move

forward progress of the attack

fires or their effects from crossing

PHASE LINE - easily identified feature in the operational

LIMIT OF ADVANCE (LOA) - phase line used to control

RESTRICTIVE FIRE LINE (RFL) - boundary established

between converging friendly surface forces that prohibits

AIRBORNE / AVIATION AXIS OF ADVANCE

which the commander throws the full weight of the

offensive power at his disposal

SUPPORTING AXIS OF ADVANCE

does not deviate from when attacking

DIRECTION OF MAIN ATTACK

DIRECTION OF SUPPORTING ATTACK

MAIN AXIS OF AD VAN CE - principal attack or effort into

AXIS OF AD VAN CE - general area through which the bulk of a unit's combat power

DIRECTION OF ATTACK - specific direction or assigned route a force uses and

area utilized for control and coordination of military

SP

PD

DCN

E/T

AXP

CCP

MCP

LRP

R3P

TCP

COMMON MILITARY SYMBOLS

BATTLE POSITION - defensive location oriented on a likely

TARGET REFERENCE POINT - predetermined point of

reference, normally a permanent structure or terrain feature that

POINT TARGET - target that is less than or equal to 200

LINEAR TARGET - targets that are greater than 200

meters in length and less than or equal to 200 meters in width

can be used when describing a target location

enemy avenue of approach

meters in width and length



XRAY

AA0001

LA2961

25

201

MISSILE LAUNCHER

<u>Military Symbols</u> provide visual reference for relevant units, locations, an Leaders create rapidly shared understanding by disseminating unit graphic					
POSITIONS, AREAS, TARGETS	SYMBOL				
ASSEMBLY AREA - area a unit occupies to prepare for an operation	AA DOG				
ATTACK POSITION - last position an attacking force occupies or passes through before crossing the line of departure	ATK NILE				
ASSAULT POSITION - covered and concealed position short of the objective from which final preparations are made to assault the objective	ASLT NILE				
OBJECTIVE - geographical area, defined by competent authority, within which is located an objective to be captured or reached by military forces	OBJ CAT				
NAMED AREA OF INTEREST - Geospatial area or systems node or link against which information that will satisfy a specific information requirement can be collected, usually to capture indications of adversary courses of action	NAI 42				
ENGAGEMENT AREA - area where the commander masses effects to contain and destroy an enemy force	EA DARK				

FIRE CONTROL



Fire Control enables units to focus, distribute, and shift the mass of their direct fire capability at critical locations and times to succeed in combat while avoiding fratricide.

Reflective Questions

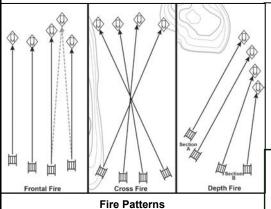
□What ENY systems and units should my unit destroy first to prevent them from accomplishing their mission and ensure success in ours, and which of our weapon systems is the most effective way of killing them?

□What ENY systems and units pose the greatest threat to my mission and Soldiers during the next fight, and which of our weapon systems is the most effective way of killing them?

□Do all my Soldiers know the unit SOP for direct fire control, to include habitual sectors of fire, TTPs for lifting and shifting fires, weapons control statuses,

☐ Have I provided all my Soldiers with sectors of fire and engagement priorities by weapon system during every phase of the next fight?

□Do all my Soldiers understand where and when we cannot engage with direct fires during every phase of the next fight?

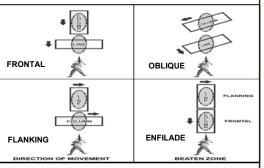


Frontal – simplest to control, disrupts ENY across

entire front

Cross – increases flank shots, difficult for ENY to return fire

Depth – disrupts ENY across entire formation, prevents SBF and maneuver



Classes of Fire Relative to Target

Principles of Direct Fire

- Destroy the greatest threat first.
- Mass the effects of direct fire.
- Employ the best weapon for the specific target.
- Avoid target overkill.
- Minimize exposure.
- Plan and implement control measures.
- Plan for limited visibility conditions.
- Plan for degraded capabilities.

Direct Fire Control Measures

- Target Reference Point easily recognizable point on the ground used to initiate, distribute, and control fires
 Sector of Fire defined area in which a
 - Sector of Fire defined area in which a Soldier/unit can engage with direct fires; often delimited by azimuths, TRPs, clock direction
- Restrictive Fire Line established between converging friendly units, prohibits fires or their effects across that line
- Coordinated Fire Line established between converging friendly units, prohibits fires or their effects across that line without coordination with the adjacent unit
- Maximum Engagement Line farthest limit of effective fire for a weapon / unit beyond which Soldier/unit does not engage
 Final Protective Line - established where unit
- employs interlocking fires of all available weapons to halt ENY advance

U.S. WEAPON SYSTEMS



Understanding the capabilities and limitations of friendly weapons systems is critical for ensuring proper positioning of forces, targeting priorities, adequate supply for specific missions, and regard for the effects various weapons in areas which may contain friendly forces and / or civilian populations.

Reflective Questions

- □ Are all my Soldiers' weapons systems in the best position to kill the ENY in the fight? □ Do all my Soldiers know their engagement ranges, techniques, and priorities for the next fight?
- □ Do all my Soldiers have enough ammunition, optics, batteries, and lubricants to achieve the desired effects with their weapon systems during the next fight?

 □ Are any of my Soldiers in danger from the effects of friendly indirect fires planned for
- □ Are any of my Soldiers in danger from the effects of friendly indirect fires planned for the next fight?

INDIRECT FIRE WEAPON SYSTEMS

		SPIALL ANPIS				INDIKEC	I LIKE ME	APUN 31	SIEWS	
WEAPON SYSTEM	MAX EFFECTI	_	MAX RANGE	SYMBOL		MAX	2/3	RISK E	STIMATE DISTANCE	
	POINT	AREA	10010002	0111502	WEAPON SYSTEM	EFFECTIVE			OMBAT ONLY)	SYMBOL
M16	550M	800M	3600M	-#->		RANGE	RANGE	RANGE	STANDING / PRONE	
M4 / M4A1	500M	600M	3600M	-111>	M109A7 155MM SELF-			1/3	385M / 355M	ılı
M249 (BIPOD)	600M	800M	3600M	\mapsto	PROPELLED	24,000M	16,000M	2/3	515M / 485M	1 ∦
M249 (TRIPOD)	600M	1000M	300014	'	HOWITZER (PALADIN)			MAX	730M / 710M	
M240 B/L (BIPOD)	600M	800M	3725M	$\vdash \Vdash \rightarrow$				IVIAA	7 JUNI / 7 TUNI	
M240 B/L (TRIPOD)	800M	1100M	3/2514	' " ′				1/3	385M / 355M	1
M2 / M2A1 HB .50 CAL	600M	1830M	6764M	 >	M777A2 TOWED HOWITZER	24,000M	16,000M	2/3	515M / 485M	╽
MK19 40MM AGL	1500M	2212M	2212M	H II 0)				MAX	730M / 710M	ፕ
M203 / M320 40MM GL	150M	350M	400M	+++++++++++++++++++++++++++++++++++++++	M119A3 TOWED			1/3	285M / 275M	. ,
10.11.02	ANTI-ARM	OR WEAPON SYSTE	MS		HOWITZER	17,500M	11,667M	2/3	355M / 345M	l III
WEAPON SYSTEM	ARMING DISTANCE	MAX EFFECTIVE	MAX RANGE	SYMBOL				MAX	505M / 495M	ò
M136 / M136A1 AT4	10M	300M	2100M	⅓	M120 120MM MORTAR	3,490M	2,327M	1/3	320M / 295M 340M / 330M	- ‡
M72A2/A23 LAW	10M	200M	1000M	<u>%</u> ; ⟨		0, 100111	2,027111	MAX	375M / 255M	δ
	TOP ATK:							1/3	190M / 175M	^
JAVELIN	DIRECT ATK:	2500M	4000M	\oplus	M252 81MM MORTAR	5,608M	3,739M	2/3	210M / 195M	- ±
M3 MAAWS (CARL GUSTAF)	17-46M	1300M	2100M					MAX	220M / 205M	0
M41 ITAS (TOW MISSILE VARIANTS)	30-200M	3750-4200M	4200M	#	M224 60MM MORTAR	7,200M	4,800M	1/3 2/3 MAX	150M / 140M 155M / 145M 175M / 165M	Î
TAILLAIT O	Rat	es of Eire	(PDM) A	4249 A	4240B M	2 1	AK10	7		

Rates of Fire (RPM)	M249	M240B	M2	MK19
Sustained (RPM)	50	100	40	40
Rapid (RPM)	100	200	40	60
Cyclic (RPM)	850	650-950	450-550	325-375

Engagement Techniques

Point: Concentrating effects of fire against a specific, identified target

Area: Distributing effects of fire over an area for numerous or not obvious enemy positions Simultaneous: Rapidly mass the effects of their fires or to gain fire superiority

Alternating: Pairs of elements continuously engage same point/area target one at a time Observed: Direct one element to engage; other elements observe and prepare to engage Sequential: Elements of a unit engage the same point/area target in arranged sequence Time of Suppression: Period when enemy position or force is required to be suppressed

Recon by Fire: Engage possible enemy locations to elicit a tactical response (return fire or movement) WEAPON SYSTEM

M136 / M136A1 AT4

(A)

U.S. WEAPON SYSTEMS



SYMBOL

Understanding the capabilities and limitations of friendly weapons systems is critical for ensuring proper positioning of forces, targeting priorities, adequate supply for specific missions, and regard for the effects various weapons in areas which may contain friendly forces and / or civilian populations.

Reflective Questions

□ Are all my Soldiers' weapons systems in the best position to kill the ENY in the fight? □ Do all my Soldiers know their engagement ranges, techniques, and priorities for the next fight?

ANTI-ARMOR WEAPON SYSTEMS

MAX

300M

EFFECTIVE

MAX RANGE

2100M

BTR BRONYETRANSPORTYOR

Sequence: 1 firer, 2+ sequential shots **Pair**: 2+ firers, alternating adjust fire, then

Ideally, AT teams should fire from multiple

Volley: 2+ simultaneous firers

positions to confuse return fire.

ARMING

DISTANCE

10M

(B)

PRINCIPAL DIRECTION OF FIRE AND OBSERVATION.

(B) PRINCIPAL DIRECTION OF ATTACK.

LEGEND

BMP BOYEVAYA MASHINA PEKHOYTS

fire for effect

	300.1		/ //
10M	200M	1000M	₹
TOP ATK:	2500M	4000M	Ø
DIRECT ATK:	250011	400011	
17 46M	1200M	2100M	—
17-46№	130014	21001⁴1	1
			. —
30-200M	3750-4200M	4200M	
	BTR-80	BMP-30 WEAKEST POINT: FLANK AND PEA	
	TOP ATK: DIRECT ATK: 17-46M	TOP ATK: 2500M DIRECT ATK: 17-46M 1300M 30-200M 3750-4200M	TOP ATK: DIRECT ATK: 17-46M 1300M 2100M 30-200M 3750-4200M 4200M

M240 (COAX)

U.S. WEAPON SYSTEMS



IVI

3725M

Understanding the capabilities and limitations of friendly weapons systems is critical for ensuring proper positioning of forces, targeting priorities, adequate supply for specific missions, and regard for the effects various weapons in areas which may contain friendly forces and / or civilian populations.

Reflective Questions

□ Are all my Soldiers' weapons systems in the best position to kill the ENY in the fight? □ Do all my Soldiers know their engagement ranges, techniques, and priorities for the next fight?

next fight?			
M1A2 SEP	v3 MAIN BATTLE 1	TANK (ABRAMS)	
WEAPON SYSTEM	MAX EFFECTIVE RANGE	MAX RANGE	SYMBOL
M256 120MM MAIN GUN	3000M	SEE TM 9-2350-264-10-1/2	Ш
M2A1HB .50 CAL	1830M	6764M	_
M240 (COAX)	1100M	3725M	_ ш
M240 (LOADER)	800M	3725M	' '
M2A3 / M2A4 INI	FANTRY FIGHTING	VEHICLE (BRADLEY)	
WEAPON SYSTEM	MAX EFFECTIVE RANGE	MAX RANGE	SYMBOL
BGM-71 TOW MISSILE	3750M	SEE TM 9-2350-294-10-1/2	IVI
M242 25mm	2000M	SEE TM 9-2350-294-10-1/2	 ()

1100M



Stand-To is a procedure conducted by units to ensure synchronization at daily periods of high risk near sunrise and sunset. During Stand-To, units assume 100% security posture, conduct communications checks, send routine reports, and prepare either to receive contact or displace. Units equipped with vehicles prepare to turn all vehicles on simultaneously, either via a synchronized start time or FM short-count, to prevent the ENY from making an accurate count. At the conclusion of stand-to, the unit is ready to conduct other actions (often personal hygiene, meals, and other priorities of work). Small unit leaders are responsible for preparing their elements to conduct stand-to IAW their higher HQ's SOP.

Stand-To Checklist

- All personnel awake, alert
- Prepare to fire checks complete for all weapons systems
- Vehicles prepared for power up at completion of short-count
- Internal communications checks complete
- Routine reports prepared

Reflective Questions

□Do all my Soldiers know the next stand-to time, and have I confirmed this with them / their first-line supervisors?

□Do all my Soldiers know how to prepare for stand-to while maintaining strict noise and light discipline? ☐ Have my Soldiers and I rehearsed our actions on contact for the most likely / most

dangerous of the nine forms of contact (DINOCAVE-I)? see page 23 for forms of contact. ☐ Have my Soldiers and I rehearsed displacing to our planned rally point? Have we

identified an alternate rally point if our planned point is not viable? ☐ Do all my Soldiers know their priorities of work after stand-to procedures are

complete, and have I confirmed this with them / their first-line supervisors?

OBJ DENMARK

STAND-TO INSTRUCTIONS

MISSION: NLT 0900, D CO seizes OBJ DENMARK IOT enable 1-23 FA to occupy PAA 1.

WAKE UP: 0537 STAND-TO: 0557 PRIORITIES OF WORK:

SECURITY (50%), MAINTENANCE (WEAPONS,

VEHICLES, COMS), RESUPPLY (V, III, I), FOOD / HYGIENCE,

MOVE PREP **BMTN: 0627**

SP: 0800 **ROUTE: RTE HAWAII IVO AXIS**

BAYONET ORDER OF MARCH: 2, 3, HQ, 1

CONTINGENCY RP: RP 1 CONTINGENCY ROUTE: RTE

HAWAII TO RTE IDAHO

AA DOG 1 **US Company** Battle Position **US Squad** Battle Position (planned) Assembly Area

PRIORITIES OF WORK



<u>Priorities of Work</u> are the continuous activities needed to prepare and maintain Soldiers and equipment for combat. Leaders manage and assign priorities of work based on the anticipated time available, the next mission, and the status of their Soldiers and equipment. The priorities of work generally are:

- 1. Establishing and Maintaining Security.
- 2. Establishing a Withdrawal Plan.
- 3. Establishing and Maintaining Communications.
- 4. Mission Planning and Preparation.
- 5. Conducting Weapons and Equipment Maintenance.
- 6. Conducting Resupply.
- 7. Conducting Food, Rest, and Hygiene Cycles.

There is seldom enough time to do everything that would be beneficial. Therefore, leaders consider, articulate, and mitigate risk in those priorities of work which receive less attention.

Reflective Questions Given current threats, how many of my Soldiers must remain focused on security to

- Civen current threats, new many or my coldiers must remain recased on security to
create time for others to complete other priorities of work?
□Do all my Soldiers and vehicles have fighting positions with cover and concealment
from direct and overhead fires?
☐ Have all my Soldiers conducted maintenance and functions checks on all weapon
systems, communications equipment, night vision devices, and other critical items?
☐ How much time is available between now and the next movement or fight?
□What are my Soldiers' current critical supply shortfalls, are my leaders aware, and
how can I resupply the things we need?
□When is the last time my Soldiers ate, slept, and conducted personal hygiene?

Leader Priorities of Work □Establish local security, accounting for mission variables (METT-TC (I)).

□Assign primary, alternate, and supplementary positions and sectors of fire to
subordinates; the squad covering the most likely ENY avenue of approach receives
the smallest sector.

- □ Position crew-served weapons to ensure overlapping sectors of fire and enable flanking / enfilading fire from covered and concealed positions.
- □Designate and register preplanned targets, Final Protective Fires, assign priority of fires, and integrate planning with HHQ.
- □Ensure obstacles are deployed in-depth around the perimeter, including wire and antipersonnel mines on dismounted avenues of approach.
- □Emplace main and alternate CPs, position leaders to enable C2 of the whole unit.
- □ Distributes rations, water, ammunition, tools, and obstacle materials. □ Issue additional information, plans, and orders for patrols, upcoming operations.
- □ Reconnoiter alternate/supplementary fighting positions, routes; then briefs team leaders.
- ☐Supervise continuously.



Rehearsals enable small units to practice essential tasks, reveal weaknesses or problems in their plans, coordinate the actions of subordinate elements, and ensure common understanding of the concept of the operation, all of which improve performance and foster confidence in Soldiers. Every operation requires rehearsal, ideally on the terrain and with the full unit participating. However, leaders should consider the most appropriate rehearsal types and techniques based on the security situation, time available, and level of competence of their units, prioritizing the points of greatest friction.

Rehearsal Types

Rehearsal Techniques (a) Force on Force

- (b) Map
- (c) Net / FM cannot mass leaders, confirms
- communications

all control measures

(e) ROC drill - like sand table/terrain model,

subordinates are moving themselves

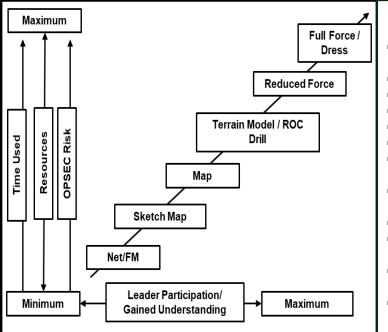
- (d) Sand table/terrain model key leaders, includes
- Confirmation Brief leaders identify key tasks for their unit after receiving HHQ OPORD Backbrief - leaders brief own plan for how to conduct their portion of operation
 - Reduced Force portion of unit performs key tasks; conducted when time is limited and/or security is required
- Full Force whole unit conducts key tasks; most effective

Reflective Questions ☐ Have I identified the essential task and other critical phases/tasks my unit must

perform during the next fight, and have I confirmed them with my HHQ? □Based on my team's status and experience, what phases of the operation are most

likely points of friction? Which phase or task should I make a priority to rehearse? □Based on time available and security requirements, have I assigned time, type, and

technique for rehearsals?



Requirements Terrain features (exaggerated)

Terrain Model

Obstacles Major checkpoints **Grid Lines**

Routes

Phase Lines OBJs and OBJ

> Area ATK, ASLT, SBF,

and ABF positions **Targets**

Friendly and ENY

unit icons Logistics support

areas/points Medical support areas

PRE-COMBAT INSPECTION CONSIDERATIONS



Pre-Combat Checks and Pre-Combat Inspections (PCCs/PCIs) are an essential part of TLPs which protect against shortfalls endangering Soldier's lives and jeopardizing the execution of the mission. Leaders must conduct PCCs/PCIs before every mission and cannot delegate this responsibility. PCC/PCI should be tailored to critical equipment, training, and knowledge for the specific unit and mission. During PCCs, leaders conduct spot checks of Soldiers in their units. During PCIs, their supervisors conduct a thorough inspection of all subordinates.

Reflective Questions pulpment and knowledge

for	Have I identified the critical equipment a Have I visually inspected the critical pied the next fight to ensure that they are proposed Do all my Soldiers have their kit set up by d down to prevent loss? Do all my Soldiers know the timeline for neir first-line supervisors?	es of esent AW u	equipment each of my Soldiers needs and functional? nit SOPs, secured to reduce noise, and
	Example PC	C/PCI	Checklist
	Individual: Helmet (Chin Strap, NODS Mount, Strobe,		Rucksack: Food (DOS appropriate for mission)
_	Headset)		Water (DOS appropriate for mission)
	NODS- (functions check, tie downs, J-Arm,		Entrenching Tool
	Rhino mount) fresh battery)		
	Eye protection (clear and dark)		Additional Clothing (Spares, cold weather,
	ID Card/ID Tags	_	wet weather)
	Fighting Equipment (fit, plates serviceable,		100 MPH Tape
П	straps secured, load carrier balanced)		550 Cord
_	Weapons (clean, functions check, tie downs, fresh batteries)		Additional Ammunition (spare fighting load, crew-served weapons)
	Ammo (carriers mounted correctly,		• ,
_	appropriate combat load)	_	equipment)
	Grenades (mounted correctly, appropriate		- 4
	combat load)		Aid and Litter:
	Wristwatch		Combat Casualty Reference Card
	Gloves (minimum shooting gloves, may		Pole less Litter
_	need FR gloves, Cold WX gloves)		Nasal Phalangeal Airway (w / Lubrication)
	Personnel Info (bump card, casualty feeder		x6
$\overline{}$	card, blood chit, pointy-talkie)		Roller Gauze (vacuumed) X8
	Weapons cleaning kit		Needle Chest Decompression Kit Tourniquet x6
_	CL I (water source for CBRN environment, MRE and water volume mission-specific)		Trauma Dressing x6
П	Pen and Paper (waterproof)		Abdominal Badge / Chest Seal
	Detainee processing kit		SAM II Splint x2
	Red and white light headlamp / tactical		Trauma Shears
	flashlight		Surgical Tape x3
	Navigation Tools (map, graphics, compass,		ACE Wrap x2
	protractor, grid reference guides, DAGR)		Cravats x6
			Kerlix x4

PLT LINE, SQD

PLT LINE, SQD



Movement is the positioning of combat power to establish the conditions for maneuver. Movement of troops and equipment is a deliberate activity which requires training, planning, orders, preparation, and rehearsals. Small unit leaders must understand the routes along which they are moving to anticipate time required between checkpoints and objectives, level of Soldier fatigue/vehicle wear, likely transition points between tactical formations and movement techniques, and danger areas. Leaders backwards plan to ensure adequate time including resupply, load plan inspections, disseminating maps and graphics, and conducting rehearsals.

Reflective Questions

What routes is my unit using to move from our current position to our objectives? Are there alternate routes available if our primary routes become unusable? ☐ How long will it take my unit to move from our current location to our objective, given the terrain, our road and off-road rate of march, and current Soldier/vehicle loads? What pieces of key terrain affect my unit's movement, either by providing cover and

concealment, observation and fields of fire, or acting as obstacles? Where along my unit's route is the ENY likely to gain observation of my unit, and where are they likely to make contact with UAS, EW, indirect, and direct fires?

PLT COLUMN

PLT FILE

PLT WEDGE

PLT VEE ENY situation vague, contact Large SBF, small

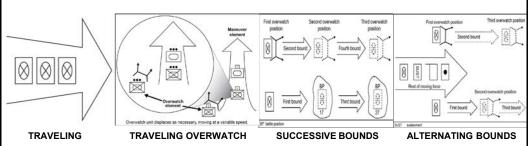
	COLUMN	LINE	I ET COLOMIN			I EI VEE
LOGIC	Line not desirable but contact	ENY situation known, contact	Default	Poor visibility	ENY situation vague, contact not	ENY situation vague, contact
FLEXIBILITY	Medium	Minimal	Excellent	Least flexibility	Small SBF, large maneuver element	Large SBF, small maneuver element
FIRES	Good to front, rear; minimal to flanks	Maximum to front; limited to flanks, rear	Limited to front, rear; good to flanks	Extremely minimal to front, rear; maximum to	Good to front, flanks	Maximum to front, flanks; minimum to rear
SECURITY	Good all around	Limited	Extremely limited	Extremely limited	Good on flanks	Extremely limited
MOVEMENT	Slow	Slow	Medium	Fastest	Slow	Slowest
ECHELON FILE	SIC FORMA O VEE	TIONS LINE WEDGE	FORMS OF CONTACT 1. Direct Fire 2. Indirect Fire 3. Non-hostile 4. Obstacle 5. CBRN 6. Aerial 7. Visual 8.Electronic 9. Influence		ESSEN ☐ Map and ☐ Security ☐ Commun	plan nication ncent units, tes) aissance stance, rch



<u>Movement</u> is the positioning of combat power to establish the conditions for maneuver. Movement of troops and equipment is a deliberate activity which requires training, planning, orders, preparation, and rehearsals. Small unit leaders must understand the routes along which they are moving to anticipate time required between checkpoints and objectives, level of Soldier fatigue/vehicle wear, likely transition points between tactical formations and movement techniques, and danger areas. Leaders backwards plan to ensure adequate time including resupply, load plan inspections, disseminating maps and graphics, and conducting rehearsals.

Reflective Questions

□What routes is my unit using to move from our current position to our objectives? Are there alternate routes available if our primary routes become unusable?
□How long will it take my unit to move from our current location to our objective, given the terrain, our road and off-road rate of march, and current Soldier/vehicle loads?
□What pieces of key terrain affect my unit's movement, either by providing cover and concealment, observation and fields of fire, or acting as obstacles?
□Where along my unit's route is the ENY likely to gain observation of my unit, and where are they likely to make contact with UAS, EW, indirect, and direct fires?



Traveling (TL): contact not expected, least security.

Traveling Overwatch (TR): contact possible, medium security.

Bounding Overwatch: contact expected, highest security. **Alternating Bounds** (BL), **Successive Bounds** (BR).

Moving successfully requires selecting the best combination of movement formations and movement techniques for each situation. Leaders consider the factors of METT-TC (I) in selecting the best route and the appropriate formation and movement technique. Moving units must:

- Maintain cohesion.
- Maintain communication.
- Maintain momentum.
- Provide maximum protection.
- Make contact in a way that enables rapid transition to offensive or defensive action.

Moving well ensures that units can make contact with the ENY in a time and place of their choosing, with the smallest possible element (ideally a non-human element).

MOUNTED MOVEMENT



18

30

CROSS-COUNTRY

Small unit leaders ensure that all Soldiers, particularly drivers and vehicle commanders, understand the routes, associated control measures, chalks and serials, intervals between elements, travel speed and catch-up speed, recovery and rollover procedures, and sectors of fire during movement. Leaders also ensure that Soldier and vehicle load plans support the mission. Additionally, leaders inspect all vehicles or subordinate elements to ensure that they have appropriate navigation material, operational communications, and medical equipment. Careless movement results in ENY contact at a time and place of their choosing. Understanding the shifting eir AO is selection

interrelationship between unit movement, terrain, and weapon systems in their AO is the basis for employing movement formations, movement techniques, route selection and navigation, crossing danger areas, and security.							
Mounted Movement Preparation Checklist							
□Administrative Requirements □Driver and vehicle commander licensed for vehicle and trailer variant □Vehicle dispatched □Technical manual (TM) present □Before Operations PMCS complete □Manifest for each vehicle complete □Equipment stowed IAW unit load plan SOP □Appropriate DOS CL I for mission □Slave cable (min 1/section). □Tow bar / recovery strap, heat shield if required □CL III P UBL for vehicle, weapons □Extra fuel cans O/H, full, stowed IAW SOP. □Class IV UBL	□CASEVAC □Actions at s □Convoy/mov □Primary and □Checkpoint □Communica frequencies elements □Convoy spe □Vehicle, see □Maintenance	short halt ement bried d alternate arch s, phase li ations PAC for HHQ, eed and ca rial, and cl	rollover content of the content of t	ducted es passage po n, applicab ent units, si p speed tterval	oints, la ole FM ubordir	nate	
□CL V UBL for all weapon (within reach of gunners) □Battle Damage Repair (BDR) kit FUEL CONSUMPTION RATE ESTIMATES (GAL/HR)							
□CL VIII: FAK/CLS Bag (stocked)	VEHICLE	CAPACITY	_				
□Fire extinguisher (serviceable, in reach)	M1A2	496	12.8	61.		59.1	
□CBRN decontamination equipment (M256 kits) □Visual signaling/vehicle marking equipment	M2	175	1.4	19.		18.8	
□Visual signaling/verticle marking equipment □Vehicles fully fueled	M113 FOV	95	1	7.9		8	
☐ Map of AO with current graphic control measures	M88	400	3.5	42.		40.9	
stowed.	M109	133	1.4	18.		18.5	
□Communications Requirements	MLRS	175	1.4	18.		18.2	
□Antennas present, connections clean, secured	STRYKER FOV	53	0.25	2.9		5.7	
□COMSEC installed, equipment secured □Communications check complete	JLTV	22.5	0.25	1.4		2.8	
□CBRN system (e.g. JCAD) O/H, FMC □Night operations □Night Vision for DVR/VC/GNR O/H, FMC □Vehicle/personnel limited visibility marking	FMTV (M1078, M1083, M1084, M1087, M1088)	54	0.25	2.8		5.6	
□Light sources covered/red light only	AH-64	370		17	5		
□Firepower	CH-47	1030		51	4		
□Sectors of fire assigned	UH-60	362		17	5		
□Weapons' mounts / turrets FMC	UNOPPO	DSED RA	ATE (OF MARC			
□Boresight complete (if needed)	PLATFORM	_				NIGHT	
□Weapons cleaned, loaded, test-fired	FOOT	ROAD	s-co	UNTRY	2	3 1	
□Optics FMC, zeroed, spare batteries O/H	WHEELED	ROAD			80	10	
□Rehearsals (daylight and limited visibility) □Mounted battle drills	**IILELED		s-co	UNTRY	10	6	
awounted pattie units	TRACKED	ROAD			60	45	

SOLDIER LOAD MANAGEMENT



Soldier Load and Sustainment Considerations: When conducting movement and maneuver, leaders must consider how Soldiers loads over distance affect the status of troops and their ability to conduct operations at the objective area. The Determine, Review, Organize, and Prioritize framework allows leaders to manage Soldier loads effectively, and personal protective equipment posture

Determine Load:

- Physical Load: How far and how quickly can Soldiers carry the necessary equipment while still having the ability to complete the mission at the OBJ?
- Cognitive Load: Do Soldiers have the mental capacity to overcome the physiological and psychological challenges of the mission?

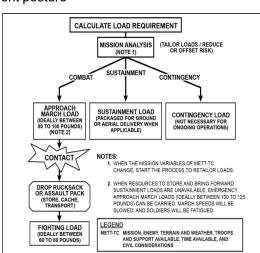
Review: packing lists, mission essential and personal protective posture level

- Ensure Soldiers have the essential equipment for the mission. Leaders must consider the most likely threats
 - and contingencies when determining what equipment to carry/load and protective posture Carrying equipment for every contingency
 - increases fatique and decreases effectiveness. Leaders mitigate risk to mission and force by
 - continually assessing the threats posed by the ENY and environmental and adjusting load Consider:
- - Anticipated mission duration and timeline
 - Opportunities for resupply before, during, and after operations What coordination is needed to ensure
 - resupply at an advantageous time and place?
 - How quickly can assigned assets deliver resupply? Can emergency resupply occur faster if needed?
 - Does resupply require a deliberate link up?
 - Likely combat requirements at the OBJ and

Organize Load Carriage Systems:

follow on operations

- Identify opportunities for motorized transportation of personnel and equipment (ground, air)
- Ensure essential equipment is readily available within bags, vehicles
- Distribute essential equipment across the formation to decrease load and increase redundancy in case of loss (maintenance, casualty)
- Prioritize assets and plan movement.



PPEP Level	Ballistic Threat Protection	Example	Notes
0 All Carried	No ballistic protection.	Protection level: None.	Load carriage only. All soft armor and hard armor plates readily available and transported to the Soldier when needed.
1 Soft Armor	9 millimeter and fragmentation protection.	Protection level: Broad-spectrum fragmentary, handgun, submachine gun protection.	Intended for threat levels not including rifle threat (for example, vehicle crews and patrol base activities).
2 Hard Armor Plates Only (Minimum - Front and Back Plates Only)	Low-threat rifle (7.62 x 39 AP) protection.	Protection level: Hardened steel core.	Protection from small arms while reducing overall weight. Intended for dismounted troops who may encounter small arms fire.
High-threat rifle (7.62 x 54 AP) protection level: Broad-spectrum fragmentary, handgun submarchine gun protection. Hardened steel core, sniper threat.		Protection from sniper caliber small arms with increased protection provided by soft armor, increased protection while dismounted, intended for dismounted troops who will likely encounter small arms fire with a sniper threat.	

Legend: AP - armor-piercing; PPEP - personal protective equipment posture

		K	PH		
AVERAGE RATES	ON R	OADS	CROSS-C	OUNTRY	км
OF MARCH FOR:	DAY	NIGHT	DAY	NIGHT	PER DAY
FOOT SOLDIERS	4	3.2	2.4	1.6	20 to 32
LEGEND KM KILOMETER	КРН	KILOMETERS P	ER HOUR		

SOLIDER WAT	ER CO	NSUMPTION F	RATE (GAL/D	AY)
WATER USE	ARTIC	TEMPERATE	TROPICAL	ARID
DRINKING	2	1.5	3	3
HYGIENE	1.7	1.7	1.7	1.7

2.8

6.1

2.8

0.2

0.2

7.9

2.8

7.7

MEDICAL 0.1 0.1 0.2 MAINTENANCE 0 0 0

2.8

6.6

FOOD PREP

TOTAL REQ

FIGHTING ON THE OFFENSIVE



Army units conduct offensive operations to defeat ENY forces, destroy ENY forces, and gain control of terrain, resources, and population centers. Fighting offensively enables units to secure decisive terrain; deprive the ENY of resources; gain information; deceive / divert ENY forces; fix an ENY force in position; disrupt ENY attacks; and set the conditions for successful future operations. Small unit leaders need to understand their unit's tasks and role in the attack, the ENY's capabilities, the terrain on which they will move and fight, the time and resources available for preparation, and the actions for which their Soldiers will be responsible after the fight.

Reflective Questions

OA/BHL

□Given our assigned tasks, does my team have the necessary CL I, III, V, and VIII to win the next fight, including an ENY counterattack? Do my Soldiers know the timeline for preparation, rehearsals, PCC/PCI, and movement for

the next fight, and have I confirmed this with their first-line supervisors?

☐ How will my unit maneuver around and through natural and reinforcing obstacles? Where and how can my team approach ENY positions with the maximum cover and

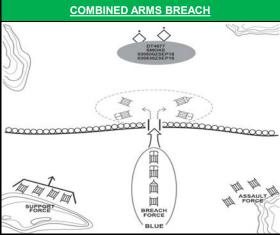
concealment, and how much time / distance do we need to cross while exposed?

☐ Has my unit rehearsed transitions of formations and movement techniques for the next fight?

□Do my Soldiers understand what tasks our adjacent units are performing, where and when, and how we will synchronize our actions to prevent fratricide and kill the ENY? ☐ Have Soldiers rehearsed the transition to hasty defense after the next fight?

SEQUENCE OF THE OFFENSE

- 1. Planning and Preparation at Assembly Area 2. Reconnaissance and Surveillance
- 3. Movement to Line of Departure a) Occupation of Attack Position
- **Movement to Line of Deployment** a) Occupation of Assault Position
- 5. Establishment of Support by Fire
- 6. Assault
- 7. Follow Through
 - a) Consolidation
 - b) Reorganization
 - c) Transition

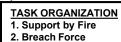




- 1. Suppress 2. Obscure
- 3.Secure 4. Reduce
- - Plan for (F)POL of follow-on forces, heavy casualties, and ENY CATK.

COMPANY ATTACK

OBJ



3. Assault Force

FIGHTING IN THE DEFENSE



Army units fight in the defense to create conditions favorable for the offense and regain the initiative. Fighting defensively allows units to retain decisive terrain or denying a vital area to an ENY; attrit or fix ENY as a prelude to the offense; counter ENY actions; increase the ENY's vulnerability by concentrating their forces. Small unit leaders need to understand what their unit's role in the defense to ensure that they prioritize preparation time and are ready to take advantage of opportunities provided by terrain, ENY action, and friendly effects.

Reflective Questions

☐ Has my unit selected the most advantageous positions available to establish a defense, and are we tied into the natural obstacles, cover, and concealment? □Do all my Soldiers know the locations and routes to their alternate, supplemental, and subsequent battle positions?

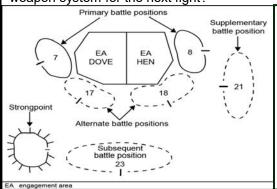
☐ Have all my Soldiers rehearsed our plans for resupply and casualty care / evacuation under fire?

□Do all my Soldiers know the location, schedule, signals, and composition of our reconnaissance and security patrols and observation posts?

□Do all my Soldiers know our role in the counterattack plan?

□ Have I inspected all my Soldiers' fighting positions to ensure they have adequate cover and concealment from direct, indirect, and air-based fires?

□Do all my Soldiers know their engagement ranges, techniques, and priorities by weapon system for the next fight?



Terrain Considerations for the Defense

- Parallel ridges across ENY line of advance. Natural obstacles (water, relief) on front,
- High ground: good observation and long-
- Concealed movement routes BPs Limited road network forward of line of

range fields of fire

contact Road network behind the line of contact (enables CDRs to reposition forces, resources as needed)

Engagement Area - area where the commander masses effects to contain and destroy an ENY force.

7-Step Engagement Area Development

- 1. Identify all likely ENY avenues of approach
- 2. Determine likely ENY schemes of maneuver
- 3. Determine where to kill the ENY force
- 4. Plan and integrate obstacles
- Emplace weapon systems
- 6. Plan and integrate indirect fires
- 7. Rehearse

Battle Position - defensive location oriented on a likely ENY avenue of approach.

- Primary BP covers the ENY most likely avenue of approach into the assigned area
- Alternate BP for occupation when the
- primary position becomes untenable or unsuitable for carrying out assigned task
- Subsequent BP position unit expects to move to during course of battle
- Supplementary BP covers less likely ENY avenue of approach into the assigned area

Units defend by digging in, placing obstacles, patrolling, conducting spoiling attacks, and using fires to force the ENY into an EA. Units that defend by waiting patiently won't have to wait long to be bypassed or destroyed.

MATERIAL

WEAPON

to mislead ENY as to true

regular patterns and target

(Deploys false/simulated

target where ENY might

conclude it has found real

identity)

DISRUPTING

characteristics)

DECEOYING

(Alters or eliminates

SURVIVABILITY OPERATIONS



military forces which permits them to avoid or withstand hostile actions or environmental conditions while retaining the ability to fulfill their primary mission. Leaders must take both active and passive measures to ensure the survivability of their units by camouflaging their

Soldiers and equipment, using cover and concealment effectively, and eliminating threats.

Survivability Operations are activities that enhance survivability, the quality or capability of

Reflective Questions

□What systems can our enemies employ to observe and engage my unit, and how should my Soldiers react to contact by those systems to maximize their survivability? □What level of protection do my unit's current positions provide against direct-fire weapons

systems and fragmentation/blast from indirect-fire weapons?

□How can my Soldiers employ camouflage, natural cover and concealment, movement

techniques and formations, and fires to move safely from their current positions to the next position of advantage over the ENY?

MORTAR MORTAR ROCKET

Camo sails, false operating

surface, pyrotechnics,

smudge pots, balloons,

strobe lights, tracer

simulators, obscurants

Decoy targets, lights,

obscurants

THICKNESS (IN) FOR INDIRECT-FIRE BLAST/FRAGMENTATION PROTECTION AT

HE

BOMB

(82MM) (120MM) (122MM) (122MM) (155MM) (100LBS) 250LBS) (500LBS) (1000LBS)

Flares, obscurants

Decoy targets, flares,

AC/heatining, obscurants

BOMB

BOMB

Chaff, corner reflectors

Decoy targets, corner

reflectors, signal generators

BOMB

	(82MM	1) (120MM)	(122MM)	(122MM)	(155MM)	(100LBS)	250LBS)	(500LB	S) (1000LBS)
BRICK / CLAY MASONRY	4	6	6	6	8	8	10	13	17
CONCRETE MASONRY	4	5	5	5	6	8	10	15	18
REINFORCED CONCRETE	3	4	4	4	5	7	9	12	15
TIMBER	8	12	12	12	14	15	18	24	30
SANDBAG (SAND)	8	16	16	16	18	30	30	40	40
MATERIA	L THI	CKNESS (IN	N) FOR D	IRECT-	FIRE DIR	ECT HIT	PROTE	CTION	
DISTANCE TO TA	RGET		100	OM		200M		400	M
WEAPON		5.56MM	7.62N	1M 1:	2.7MM	20MM A	Γ 37MN	I AT	50MM AT
BRICK / CLAY MASO	NRY	9	1	6	N/A	30	6	0	N/A
CONCRETE MASON	RY	9	1	6	N/A	N/A	N.	/A	N/A
REINFORCED CON	CRETE	E 8	1:	2	22	18	3	6	42
STONE MASONRY		8	1:	2	22	30	4	2	54
TIMBER		N/A	N/	/A	36	N/A	N.	/A	N/A
WOOD		N/A	N/	/A	24	N/A	N.	/A	N/A
STEEL		7/16	5/	/8	1 3/8	N/A	N.	/A	N/A
SANDBAG (DIRT)		N/A	N/	/A	30	60	N	/A	N/A
SANDBAG (SAND)		N/A	N/	/A	20	30	6	0	70
CAMOUFLAGE				SI	ENSOR SY	STEMS			
TECHNIQUE		OPTIC			THERM			RADA	
HIDING (Screens target from EN sensors)	e e	Earth cove mbankments, ULCANS, s obscur	vegetatio screens,	n, emb	Earth cover, ankments, v JLCANS, so obscura	egetation, creens,	embank nets,	ments, radar-a	over, earth vegetation, bsorbing LCANS
BLENDING (Alters target appearance so that it appears to become part of background)	e	Paint, foan vegetation, l textured	n, lights, JLCANS,	AC	ermal paint /heating, ve CANS, textu water, insu	s, foam, getation, red mats,	Vegetation	on, ULC	CANS, radar- naterial, tured mats
DISGUISING (Applies materials on tall to mislead ENY as to true		eshaping, pai	nt, ULCAN	NS	Reshaping,	paint	Co	rner ref	lectors

FIGHTING POSITIONS



<u>Fighting Positions</u> enhance the survivability and lethality of units in contact. The primary consideration when constructing a fighting positions is always the ability to employ the unit's weapons systems; cover (frontal, flank, rear, overhead) is secondary. Small unit leaders should select and prepare fighting positions with care, integrate fighting positions into existing terrain, especially when time is limited. Leaders must inspect positions' concealment, ideally from anticipated ENY avenues of approach.

Reflective Questions

TYPE POSITION

DISMOUNTED FIGHTING POSITIONS DIG TIME

MAN

BHL/MHE

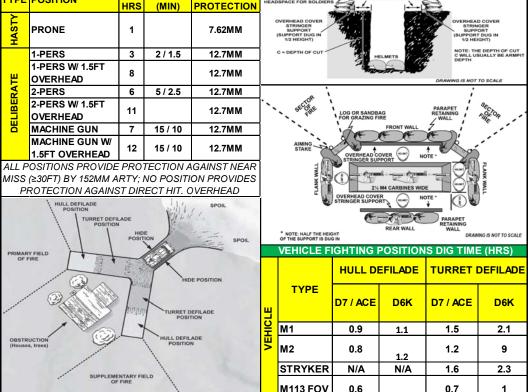
□ Have I confirmed that each fighting position enables my Soldiers to effectively engage threats in their sectors, particularly along major avenues of approach?

☐ Have I provided clear priorities, timelines, and resources for improvements to our current fighting positions to my team, including any available digging equipment?

SMALL ARMS

□ Have I used all available means to inspect the cover, concealment, and design safety of my unit's fighting positions?

FRONT SUPPORT HIGHER THAN REAR SUPPORT TO PROVIDE ADDITIONAL EADSPACE FOR SOLDIER SIDE VIEW



- Position fighting positions to provide observation and fields of fire over ENY avenues of approach.
 Cover might protect Soldiers from ENY fire; killing the ENY will.
- Any fighting position is better than nothing. Build quickly and improve over time.
- Most casualties in LSCO come from indirect fires. Digging in and building overhead cover dramatically increase survivability from blast and fragmentation.

KIAS

knots indicated airspeed

Unmanned Aerial Systems (UAS)



<u>Unmanned Aerial Systems:</u> UASs come in a variety of sizes and capabilities. Some larger UASs can have a similar lethality to cruise missiles and can launch from a wide array of locations. Smaller UASs can not only launch virtually undetected, but with their low radar and sound profiles are also difficult to detect as they maneuver across the battlefield, making them an increasingly preferred method to carry out tactical-level strikes.

Reflective Questions

- □ What role can UAS play in improving our mission success or survivability?
- □ Have I properly integrated UAS into our mission timeline and scheme of maneuver?
 □ Am I planning for UAS employment as a primary asset or just as an afterthought?
- ☐ How can I best use UAS for reconnaissance, target acquisition, or overwatch during operations?
- ☐ Do we routinely rehearse UAS employment alongside ground movement and fires?

UA Category	Maximum Gross Takeoff Weight (lbs)	Normal Operating Altitude (ft)	Speed (KIAS)	Representative UAS				
Group 1	0-20	< 1200 AGL	100 kts	WASP III, TACMAV RQ-14A/B, Buster, Nighthawk, RQ-11B, FPASS, RQ16A, Pointer, Aqua/Terra Puma				
Group 2	21-55	< 3500 AGL	< 250	ScanEagle, Silver Fox, Aerosonde				
Group 3	< 1320		< 250	RQ-7B Shadow, RQ-15 Neptune, XPV-1 Tern, XPV-2 Mako				
Group 4	> 1320	< 18,000 MSL	Any Airspeed	MQ-5B Hunter, MQ-8B Fire Scout, MQ-1C Gray Eagle, MQ-1A/B/C Predator				
Group 5	> 1320	> 18,000 MSL	Any Airspeed	MQ-9 Reaper, RQ-4 Global Hawk, RQ-4N Triton				
egend AGL above ground level lbs pounds FPASS force protection aerial surveillance system MSL mean sea level								

UA

unmanned aircraft

<u>UAS can provide:</u>

- ☐ Intelligence, surveillance, and reconnaissance.
- ☐ Situational awareness. UAS can answer the unknown.
- unknown.

 ☐ Communications relay.

UASs can serve to extend the comms

■ Weapon delivery. UAS can delivery munitions or be a munition itself

conduits.

☐ Fire support. UAS can be used to provide forward observer functionality that can enable adjustment of indirect fire.

as a loitering munition

- Psychological warfare.
 UASs seen as a weapon delivery platform or conducting intelligence,
 - conducting intelligence, surveillance, or reconnaissance prior to an attack can cause panic by their presence alone.

Counter Unmanned Aerial System (C-UAS)



<u>Counter UAS:</u> Contact with unidentified UAVs may be a precursor to an imminent attack. All units who were in the UAV's path should assume they were observed and prepare for indirect fire on their positions. All units must react quickly, respond appropriately, and report when recognizing signs of possible enemy observation or attack. Whether a dedicated C-UAS or counter-air capability is available or not, units implement passive and active defensive measures to nullify or reduce the effectiveness of enemy UAV operations.

Reflective Questions

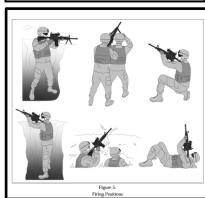
32

- ☐ How well does my team understand the current UAS threats in our operational environment?
- ☐ Can my personnel visually and audibly identify different types of UAS (e.g., fixed-wing vs. quadcopters)?
- ☐ Have we rehearsed immediate actions upon UAS detection in both day and night conditions?
- ☐ Are our camouflage, movement, and signature management techniques sufficient to counter aerial observation?
- Are we effectively integrating with higher headquarters or adjacent units for UAS defense (e.g., EW support, air defense coverage)?

Defensive Measures:

- **1.Hard Structure/Movement**: Moving internal to a hard structure is the best defense when drones are incoming. This limits the exposure to direct fire from drone payloads.
- **2.Engagement with Small Arms**: If you choose to engage drones, passive aiming through a reticle with Night Observation Devices (NODS) is most effective, as it avoids detection while trying to down the drone.
- **3.Diversionary Measures**: Use of diversionary tactics like white-light, smoke, or lasers to disorient or misdirect drones can be helpful, though it can also risk attracting them if IR light is used.
- **4.EMP or Jamming**: Blinding drones with electronic countermeasures (such as I/Jamming) could incapacitate the drone's guidance systems, rendering them ineffective.
- **5.Passive Detection**: Using techniques to passively detect drones (without broadcasting IR signals) can help maintain a low profile while tracking them.

- □ Passive measures improve survivability by reducing the likelihood of detection and targeting of friendly assets and mitigating the potential effects of an air attack.
- Active defense measures are a multi-step sequence that units and Soldiers do to detect, identify, decide, and potentially engage an unknown UAS. The quicker these steps can be applied, the more effective the response against threat UAS.





Counter UAS: Contact with unidentified UAVs may be a precursor to an imminent attack. All units who were in the UAV's path should assume they were observed and prepare for indirect fire on their positions. All units must react quickly, respond appropriately, and report when recognizing signs of possible enemy observation or attack. Whether a dedicated C-UAS or counter-air capability is available or not, units implement passive and active defensive measures to nullify or reduce the effectiveness of enemy UAV operations.

Reflective Questions

- How well does my team understand the current UAS threats in our operational environment?
- Can my personnel visually and audibly identify different types of UAS (e.g., fixed-wing vs. quadcopters)?
- Have we rehearsed immediate actions upon UAS detection in both day and night conditions?
- Are our camouflage, movement, and signature management techniques sufficient to counter aerial observation?
- Are we effectively integrating with higher headquarters or adjacent units for UAS defense (e.g., EW support, air defense coverage)?

Offensive Measures:

- **1.UAS Detection Systems**: Systems can be carried by personnel or mounted on vehicles and can detect launch points, generating grid coordinates. This enables the targeting of drone launchers before they can reposition.
- 2.Coordination for Strike Execution:
- Communicate and synchronize actions to execute air-to-ground and ground-to-ground strikes against detected drone launch points.
- **3.Spoofing Threats**: Hostile UAS teams (H/K) may try to spoof sensors and rapidly relocate to concealed positions (such as via E-bikes). This requires a quick response from Joint Tactical Air Controllers (JTACs) and Ground Fire Coordinators (GFCs) to communicate and track the mobile launch points effectively.
- 4. Rapid Repositioning and Relocation:

H/K teams, knowing their vulnerabilities, rehearse fast relocation to new positions. making it essential for your forces to adapt and respond quickly.

Key Areas of Focus:

- •Detection and Identification: Early detection is crucial. Sensor systems must be able to detect drones at a range and accurately classify launch points and movement patterns.
- •Coordination and Communication: Close communication between tactical teams and forward observers are vital for targeting and neutralizing drone threats quickly.
- Layered Sensor Integration and Responsiveness: Having fast-response sensors that can quickly identify drone threats and potential launch locations gives a significant advantage in reducing the risk.



General Rule: Displace If Compromised

•The fundamental rule is to **displace** if compromised by drones. However, it's essential to assess the drone's behavior first to determine whether displacement is immediately necessary

or if the situation can be salvaged.

Fixed-Wing SUAS (e.g., Puma):

Most Likely Course of Action (MLCOA):
•If the drone adjusts its flight level or
orbits around your position, it's likely trying to get a
closer look. This signals that the drone operator is
attempting to gain more information about your
location.

Rotary-Wing SUAS (e.g., Mavic):

General Patrol or Tasked Recon:

•Rotary-wing drones are often used for either **patrolling** or **reconnaissance** purposes in close proximity, sometimes in coordination with fixed-wing assets. They can be much closer and are equipped with **high-quality thermal and optical sensors**.

Capabilities:

•Up to 30x optical zoom and thermal sensors allow rotary-wing drones to identify and track targets at close range, making them a significant threat when you're near them.

Key Points for Action:

- **1.Cease All Movement**: Both for fixed and rotary-wing drones, movement should be halted as soon as a drone is detected or suspected in the area.
- **2.Maximize Concealment**: Effective use of cover can mean the difference between evading detection and being compromised.
- **3.Wait for Behavior Change**: Don't displace too quickly unless the drone shows clear signs of intent, such as hovering or sparkling your position. It's critical to remain still until you're certain the drone has lost interest or made its move.
- **4.Displacement**: Once compromised or if there's any sign of attack, **displacement** is essential. Displacing immediately prevents the drone from identifying a target or engaging with ordnance

Considerations:

- •Timing: The key to survival when compromised by drones is timing. Reacting too quickly can draw attention, while waiting too long can allow a drone to lock on and attack.
- •Minimize Signature: When forced to displace or remain concealed, minimizing your thermal and visual signatures is critical. Use natural terrain features, cover, or camouflage to remain as undetectable as possible.
- •Communications: Effective use of communication channels (such as calling "RED AIR") ensures everyone is aware of the compromise and can adjust their actions accordingly

Net Call:

•The phrase "RED AIR! RED AIR! RED AIR!" is used to notify the team that they are compromised by hostile aerial assets.

LOGISTICS



Logistics is the movement and support of forces. In warfighting, small unit Leaders focus on the storage, movement, distribution, maintenance, and disposition of materiel needed for Soldiers to fight and win. Leaders anticipate requirements for classes of supply, movement support, and maintenance based on their assigned missions. They ensure that maintenance and supply activities occur routinely to prevent their units from becoming combat ineffective. Most importantly, Leaders reduce unit vulnerability during maintenance and resupply activities by maintaining strict discipline and security.

Reflective Questions

- ☐ What is the required security posture during LRP operations, maintenance, and resupply? ☐ Has my unit completed before, during, and after operations PMCS for our weapons, vehicles,
- and communications equipment, and have we submitted DA 5988s? ☐ Have I monitored my unit's consumption of CL V, III, I, and VIII, and I have I requested
- resupply for all expended supplies?
- ☐ Is our next resupply tailgate, service station, or emergency, and do all my Soldiers understand their responsibilities and priorities for each resupply method? ☐ What supplies is my unit likely to expend before the next resupply due to movement,
- engagements, maintenance, and casualties? ☐ Do all my Soldiers understand the plan for resupply in contact and emergency resupply during the next fight?
- ☐ What limitations on available COS at the next echelon will affect my unit's ability to win the next fight?

Basic Considerations by COS

system, engine, and generator?

☐ CL VI: Can we perform personal hygiene?

□ CL IX: Do we need repair parts or spares?

□ CL I: How many DOS of water and food do we have? □ CL II: Are we short BII, clothing, JSLISTs, or supplies?

☐ CL III: Are all vehicles full? Is there POL for every weapon

☐ CL IV: Can we set a hasty defense with materials on hand?

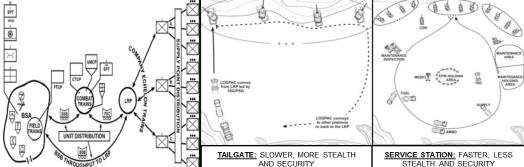
□ CL V: Do we have a full UBL and access to a second?

□ CL VII: Did we lose or destroy any critical equipment?

CL VIII: Are all IFAKs, CLS bags, and medic kits full?

Classes of Supply (COS)

- CL I (1): Food, Rations, Water
- CL II (2): Equipment
- CL III (3): Petroleum, Oil, Lubricants CL IV (4): Construction Materials
- CL V (5): Ammunition
- CL VI (6): Personal Demand Items
- CL VII (7): Major End Items
- CL VIII (8): Medical Supplies
- CL IX (9): Repair Parts
- CL X (10): Non-Military Support



Unit receives supplies, replacement personnel, RTD casualties, 5988E's at LRP: escorts to AO. Unit returns LOGPAC to LRP; backhauls routine casualties, remains, trash, 5988Es.

Units are vulnerable during resupply. LOGPAC movement can expose friendly positions, and Soldiers receiving resupply often lose the discipline that prevents the ENY from targeting their positions.

MEDICAL CONSIDERATIONS



Combat Casualties and Disease and Non-Battle Injuries (DNBI) are inevitable during

LSCO. Leaders mitigate the risks of both by ensuring that their units are prepared to treat and evacuate casualties during operations. Leaders must maintain situational awareness of the location of medical assets as well as casualty collection and ambulance exchange points to ensure Soldiers receive care as quickly as possible within the constraints of the mission. NCOs at the small unit level often perform CASEVAC duties. However, their priority must always be winning the current fight.

□ Have I inspected all my Soldiers required medical equipment (e.g. IFAKs, tourniquets, casualty feeder cards, CLS bags, medic bags, litters/sleds, HLZ marking materials, etc.) to ensure that their contents are serviceable and that they are located

☐ Have I assigned aid and litter teams and CASEVAC vehicles in my formation? □Do all my Soldiers know the FM frequency for MEDEVAC requests, the location of the

nearest Casualty Collection Point (CCP), Ambulance Exchange Point (AXP), and aid station?

□ Have all my Soldiers rehearsed evacuating casualties from all vehicles in our formation?

■How long can I sustain care at the POI?

MEDEVAC PLANNING CONSIDERATIONS

☐ Does the medical plan nest with the

maneuver and fires plans? ☐ Do EVAC routes compromise fighting

- positions? ☐ Can all supported units reach CCPs and AXPs without creating fratricide risk?
- Does the plan account for ENY COAs? ■ What level of escort do medical assets require?
 - ☐ How close to the FLOT can medical assets safely travel?
 - ☐ Do we have enough EVAC platforms for anticipated casualties? Can we make multiple trips without risking the mission?

Do we need additional support?

- ☐ Where in time, space, and by unit do we expect the highest patient density? Have we prioritized support accordingly?
- Who is the launch authority for MEDEVAC Assets Grounds (air and ground), and what the launch criteria?
- ☐ Where are the nearest AXPs, CCPs, and aid stations during each phase (including adjacent units)?
- □ GENEVA Conventions Adhered To (no mixing
- wounded with KIA) ☐ Communications Flow For 9-Lines Have Been
- Identified & Rehearsed ☐ How are we using out own medical assets?
 - ☐ Have we identified Aid and Litter Teams, Combat Lifesavers, and CASEVAC
 - platforms? ☐ Have we inspected litters, CLS bags, and
 - IFAKs? ☐ Have we completed medical rehearsals?

CLOSE AREA (200+ km) DEEP **AREAS** BRIGADE SUPPORT AREA **BATTALION TRAINS** BAS **BSMC** FRSD BAS

Role I Combat Medics, Treatment Squad, Battalion Aid

- Station (MAS/FAS) Immediate lifesaving measures
- Limited DNBBI treatment/prevention
- Evacuation from Point of Injury

- BDE Medical Company
- Trauma management, patient holding up to 72hrs, medical evacuation
- Medical logistics
- Limited blood, radiology, BH, lab, preventative
- medicine, dental, and pharmacy If augmented, resuscitative surgical care

TACTICAL COMBAT CASUALTY CARE



Tactical Combat Casualty Care

Care Under Fire: Return fire, move to cover, self/buddy aid (blood sweeps and tourniquet). Tactical Field Care: Apply MARCH-E, reassess treatments, prep patient for evacuation.

Tactical Evacuation Preparation: Aid and Litter Teams assigned, Casualty Card completed, conduct 9-Line CASEVAC / MEDEVAC.

MARCH-E: Acronym to employ treatment and to assess patient. Perform steps in sequence.

Massive Bleeding

•Identify the bleed with blood sweeps & apply tourniquet. -Apply as high on the effected limb as

possible. -Firmly tighten tourniquet strap.

-REASSESS BLEEDING

Move to a Safe area of cover to continue

assessment. •Reassess tourniquet when behind cover.

Airway

•Talk to the Patient (This should start once

you approach a patient) -AVPU (Alert, Verbal Stimulus, Pain

Stimulus, Unconscious) ·Look in Patient's Mouth (Clear of

Blood/Mucous/Dip) Head Tilt Chin Lift/Jaw Thrust

 Insert Nasopharyngeal Airway (NPA) Assess airway by listening for rate in which air is passing in and out.

Respiratory Expose the chest/torso

-Look for small shrapnel wounds. GSW entrance/exit wounds & other deformities to

the entirety of the torso. Cover any trauma wounds to the upper torso

with an occlusive dressing. •Treat for Tension Pneumothorax with Needle

D if MOI + Any of the following symptoms: -Mechanism of Injury - Penetrating Trauma,

Blast, Blunt trauma

-Signs and Symptoms - Rapid + shallow breathing, patient complaining of difficulty breathing, unilateral rise and fall of chest

-Administer needle between the 2nd and 3rd rib in the 2nd Intercostal space (ICS), medial to the mid-clavicle line or between the 4th and 5th rib at the 4th ICS, anterior to the mid-

Needle Decompression

-Reassess breathing often.

axillary line.

Circulation Check vital signs

Documentation of vitals on T-CCC Casualty

Card Gain IV access

Dress wounds/any non-life-threatening

bleeds

Hypothermia/Hypovolemia/Head Trauma Hypothermia Management (START ASAP)

AND RESUME MARCH)

-Package the patient in a HPMK and utilize

-Annotate all fluids pushed on T-CCC Card

a heating blanket. -Improvise heating element if you don't have access to a HPMK

Hypovolemia / Shock -Ensure all bleeding is stopped

-Gain IV access if not gained already (A secondary site is ideal)

•Head Trauma (Be able to recognize and report)

-Skull fractures

-Noticeable bruising (bruising around the eyes and behind the ears)

-Fixed or dilated pupils -Bleeding or discharge from ears or nose

-Steady decrease in mental status

* Elevate head side of litter to assist in

decreasing ICP (Inter-cranial pressure)*

Evacuation

·Package patient if not already achieved. Assign litter carry teams.

Ensure casualty card is accurate, properly

filled out, and sent with patient during handover.

HEALTH SERVICE SUPPORT

38

force or risk to mission?

such effects.



Health Service Support is the support and services which promote, improve, conserve, or restore the behavioral and physical well-being of Soldiers. At the small unit level, Leaders focus on preventing and treating Disease and Non-Battle Injuries (DNBI) injuries / wounds to ensure that the maximum number of Soldiers are available for the next fight. Leaders must continuously assess threats to their Soldiers' physical and behavioral health and monitor their Soldiers' statuses for conditions which might render them unfit for duty.

Reflective Questions

□ Have I accounted for tactical and environmental conditions in assigning priorities of work?
□ Have I provided a rest plan which ensures that all my Soldiers have as much rest as the tactical situation allows?
□ Have all my Soldiers all conducted personal hygiene as the tactical situation allows?
□ Have leaders checked Soldiers for signs of common DNBI that would increase the risk to

Although individual Soldiers are responsible for their own well-being and will implement and employ all protective measures possible to preserve their health, leaders can reduce impacts by-

- by
 Briefing unit personnel on the situation, objectives, and conditions that the mission or
- environment may involve.
 Making contingency plans and following standard operating procedures to reduce the effects
- of DNBI
 Inspecting their soldiers daily for DNBI effects and the control measures emplaced to reduce
- Ensure each soldier is properly utilizing rest and refit periods to recover performance.
- To reduce DNBI effects each Soldier, as a minimum, will protect against—
- Skin diseases by washing the body as often as practicable.
- Heat injury in hot and sunny climates by following work or rest and water consumption guidelines,
- Cold injury in cold climates by wearing proper cold-weather clothing and frequently changing socks to keep feet dry, by careful handling of gasoline-type liquids, and by avoiding contact between skin and cold metal.
- Avoid arthropod-borne diseases by using insect repellents, netting, and insecticide aerosols
- Enteric (gastrointestinal) diseases by using water purification procedures whenever water quality is uncertain and by avoiding unapproved food sources, and by properly disposing of bodily wastes.

Sleep deprivation degrades performance and leads to errors in judgment. Quality sleep is essential to sustain performance, and performance is critical to the successful outcome of operations.

- Performance will be degraded with less than <u>eight hours</u> of sleep every 24-hours.
- Less than <u>seven hours</u> of sleep within every 24-hour period will result in **stabilizing** performance at a lower level.
- Less than <u>four hours</u> of sleep in every 24 hours will degrade performance continuously and rapidly with no stabilization.



9-Line MEDEVAC REQUEST FORM

Report only applicable information and encrypt brevity code. If requesting MEDEVACfor both types, insert the word "break" between the litter entry and ambulatory entry: L + # of Pnt -Litter; A + # of Pnt - Ambul (sitting).

N = No enemy troops in area, P = Possibly enemy troops in area (approach wth caution), E = Enemy troops in

Specific information regarding patient wounds by type (gunshot or shrapnel). Report serious bleeding, along

Number of patients in each category need not be transmitted. Encrypt only applicable brevity codes. A = US

Include this line only when applicable. Encrypt the applicable brevity codes. N = nuclear, B = biological, C =

Include details of terrain features in and around proposed landing site. If possible, describe the relationship of

Encrypt the brevity codes. A = Panels, B = Pyrotechnic signal, C = Smoke Signal, D = None, E = Other.

area (approach with caution), X = Enemy troops in area (armed escort required).

military. B = US civilian. C = Non-US mil. D = Non-US civilian. E = EPW.

site to a prominent terrain feature (lake, mountain, tower).

MESSAGE

EVACUATION REQUEST

- ITEM

LINE

1

2

3

6

7

- Location of Pickup Site.
- Radio Frequ., Call Sign, & Suffix.
- No. of Patients by Precedence.
- Special Equipment Required.
- Number of Patients by Type. Security of Pickup Site (Wartime).
- Number and Type of Wound, Injury, or
 - Illness (Peacetime).

 - Method of Marking Pickup Site.
 - Patient Nationality and Status.
- Chemical, Biological, Radiological and Nuclear Contamination (Wartime) Terrain Description (Peacetime)
- 1. Location of pickup site. 2. Radio Frequenc
- Grid coordinates of the pickup site should be sent by secure communication. To prevent confusion the grid zone letters are included in the message.
 - - Encrypt the frequency of the radio at the pickup site, not a relay frequency. The call sign (and suffix if used) of person to be contacted at the pickup site may be transmitted in the clear.
 - Report only applicable info & encrypt brevity codes. A = Urgent, B = Urgent-Surg, C = Priority, D = Routine, E =

with patient blood type, if known.

- Convenience. (If 2 or more categories reported in same request, insert the word "break" btwn. each category.) Encrypt applicable brevity codes. A = None, B = Hoist, C = Extraction equipment, D = Ventilator, 4. Spec Equipmen
- Call Sign, Suffix. 3. No. of Patien by Precedence.

5. No. of Patien

Site (Wartime).

8. Patient Nati ality and Status.

(Wartime).

(Peacetime).

6. Number and ty

of Wound, Injury,

Illness (Peacetime). 7. Method

Marking Pickup Site.

9. NBC Contamination,

9. Terrain Description

by Type. 6. Security Pick



<u>Fire Support</u> enables units to integrate surface-to-surface indirect fires, target acquisition, armed aircraft, and other lethal and nonlethal attack/delivery systems to defeat the ENY. The combination of indirect fires with direct fires and ground maneuver enables units to disrupt, fix, close with, and destroy ENY forces. Small unit leaders must understand the capabilities, limitations, and coordination required to effectively integrate fires into their operations while minimizing risk to friendly forces and achieving desired effects on the ENY. *Under direct fire, the ENY seeks cover. Under indirect fire, they displace. Under both, they face a tactical dilemma and defeat.*

☐ Do my Soldiers know the purpose, graphic/fire control measures, and TTLODAC

factors for fires planned during our next fight?

	nderstand our place in the priority of fires and how planned fire unit's maneuver / is enabled by our maneuver during the next							
	TTLODAC FACTORS							
TARGET	TARGET NUMBER (PLANNED)							
IANOLI	TARGET TYPE (UNPLANNED)							
TRIGGER	WHEN / UNDER WHAT CONDITIONS TO FIRE THE MISSION							
LOCATION	MIN 6-DIGIT GRID TO TARGET							
OBSERVER	PRIMARY AND ALTERNATE							
DELIVERY SYSTEM	MORTAR, ARTILLERY TYPE							
АММО	TYPE (ILUM, HE, DPICM, SMK, ETC)							
AWIWO	SPECIAL INSTRUCTIONS (ANGLE, FUSE, INTERVAL)							
COMMUNICATION	FM FREQUENCY FOR UNIT, FIRES NET							
	Unplanned / Immediate Fires							
☐ Where is my unit a	and where are adjacent units in relation to the FLOT?							
☐Are the requested	fires inside the requesting unit's Area of Operations OR have they							
coordinated for cross								
□ Is there a primary	and alternate observer for lethal fires?							
☐ Where is the obse	erver relative to the target?							

☐ Is the gun target line hot or cold (are there air assets in the area)?

□Am I requesting Final Protective Fires or Immediate Suppression?

□IS: "Immediate Suppression, Grid, Altitude, Direction, fire for effect."

□FPF: "Target block, fire for effect."

☐ Are there any Non-Firing Areas or Restricted Firing Areas affecting this mission?

FIRE SUPPORT



Reflective Questions

□ Have I inspected my unit's communications and optical equipment needed to request, observe, and adjust fires?

☐ Have I accounted for the Risk Estimate Distances (REDs) of planned fires when developing the scheme of maneuver during our next fight?

EXAMPLE OF CALL FOR FIRE TRANSMISSIONS

GRID MISS	SION
OBSERVER	FIRING UNIT
CALL SIGN, THIS IS CALL SIGN ADJUST FIRE, OVER.	CALL SIGN, THIS IS CALL SIGN, ADJUST FIRE, OUT.
GRID LOCATION OF TARGET, DIRECTION (MILS), OVER	GRID LOCATION OF TARGET, DIRECTION (MILS), OUT.

TARGET DESCRIPTION, OVER. CONFIRM TARGET DESCRIPTION, OUT.

SHOT OUT. SHOT OVER.

SPLASH OUT. SPLASH, OVER. END OF MISSION, BATTLE END OF MISSION, CONFIRMED BATTLE

DAMAGE ASSESSMENT, OVER. DAMAGE ASSESSMENT, OUT.

SHIFT FROM KNOWN POINT

OBSERVER FIRING UNIT CALL SIGN THIS IS CALL SIGN, ADJUST FIRE, SHIFT (FROM CALL SIGN. THIS IS CALL SIGN. ADJUST FIRE.

KNOWN POINT) OUT. SHIFT (FROM KNOWN POINT), OVER. DIRECTION (MILS), RIGHT (METERS), ADD (METERS) OVER. DIRECTION (MILS), RIGHT (METERS) ADD (METERS), OUT

TARGET DESCRIPTION AUTHENTICATE (PRO TARGET DESCRIPTION, OVER. WORDS), OVER.

I AUTHENTICATE (PRO WORD), OVER. SHOT, OUT. 2. SPLASH OUT. 1.SHOT, OVER. 2. SPLASH, OVER.

END OF MISSION, TARGET BATTLE END OF MISSION, COMFIRM TARGET DAMAGE ASSESSMENT, OVER. BATTLE DAMAGE ASSESSMENT, OUT. **POLAR**

OBSERVER

FIRING UNIT CALL SIGN, THIS IS CALL SIGN, ADJUST FIRE, POLAR, OVER. CALL SIGN, THIS IS CALL SIGN, ADJUST FIRE, POLAR, OUT DIRECTION (MILS), DISTANCE (METERS), OVER. DIRECTION (MILS), DISTANCE (METERS), OUT. TARGET DESCRIPTION, OVER. CONFIRM TARGET DESCRIPTION, OUT.

SHOTOUT SHOT OVER SPLASH OUT. SPLASH OVER.

END OF MISSION, TARGET BATTLE END OF MISSION, CONFIRM TARGET

DAMAGE ASSESSMENT, OVER. BATTLE DAMAGE ASSESSMENT, OUT.



that enables synchronizes operations and multiples effects against the ENY. Leaders report relevant activity as quickly as the situation and the need for accuracy allow. Units use standardized reports to avoid confusion. When reporting VIA FM, Leaders submit short bursts of concise information to prevent the ENY from targeting their locations. NOTE: REFERENCE UNIT SOPs WHEN SUBMITTING REPORTS.

Timely and accurate reporting ensures that units maintain the shared understanding

CONTACT REPORT: IMMEDIATE ON CONTACT W/ ENY OR UKN FORCE

CALLSIGN: _____

CONTACT, TYPE:_____

DIRECTION/KNOWN GRAPHIC:_____

BLUE 1 - SPOT REPORT (SALT): TO INFORM CDR OF ENY ACTIVITY

LINE 1-SIZE: LINE 2-ACTIVITY:

LINE 3-LOCATION: LINE 4-TIME OBSERVED: LINE 1-SIZE:

LINE 2-ACTIVITY:

LINE 3-LOCATION: LINE 4-UNIT: LINE 4-TIME:

LINE 5-EQUIPMENT:____ LINE 5-CCIR EFFECTED: ______

LINE 6-RECOMMENDATIONS: _____

GREEN 3 (INTELLIGENCE UPDATE): PROVIDED WHEN POSSIBLE AFTER CONTACT

EACH LINE - # FMC / # O/H:

LINE 1-DTG: ______

LINE 2-ENY FRONTLINE TRACE: ______

LINE 3-ENY SITUATION, DISPOSITION:_____

LINE 4-FRIENDLY ACTION TAKEN:

LINE 5-DTG:



43	STATUS REPORTS	
<u>R</u>	RED 1 (PERSTAT): SUBMIT TWICE DAILY.	
LINE 1- CURRENT STREN	NGTH (AUTH/ASSIGNED/ON HAND/ATTACHED/DETACHED	D)

LINE 4- UNIT STRENGTH:_____

LINE 1-ITEM TYPE AND SERIAL #:_____

LINE 2-DTG OF LOSS:

LINE 5-ACTIONS TAKEN: _______

LINE 3-SQUADS: LINE 4-ANTI-TANK/ANTI-ARMOR SYSTEMS:_____

LINE 3-ASSIGNED SM BATTLE ROSTER #:_____

BLUE 4 (SLANT REPORT): PROVIDED BEFORE MOVEMENT AND AFTER CONTACT. EACH LINE - # FMC / # O/H.

LINE 4-APPROXIMATE LOCATION:

LINE 1-PRIMARY COMBAT VEHICLE: _____

LINE 2-SECONDARY COMBAT VEHICLE:

LINE 2-LOSS BATTLE ROSTER #'s, POSITION, LOSS TYPE:

LINE 3-GAIN BATTLE ROSTER #'s, POSITION:_____

GREEN 2 (SENSITIVE ITEMS REPORT): SUBMIT TWICE DAILY AND AFTER CONTACT. REPORT GREEN AND LIST TOTAL # ITEMS BY TYPE. FOR MISSING ITEMS, REPORT:



ŠOP ÒÁ ËÄÙVOEVNÙÒÙÁÇY ODEÉS ODEÁ ODEÉÒÚY DK

ŠOÞ ÒÁ ËÁÜ ÒT OTÜ SÙK ′

<u>**@579***F9DCFH.</u>ÁJWÓT QYÁQEZVÒÜÁÔUÞVQEÔVĚMÞQYÁJUŠŠWÚÁQEZVÒÜÁÔÜUÙÙŠUQEÖQÞÕÈ ŠOÞ ÒÁFËŠOÛ WOÖÜK ′

ŠODO ĎÁGĖČETT WIPOVOU PÁU PÁPOEPÖK ′

ŠOD OÁHEÓCEÚVOZŠVODÚ ŠŒ ÒÁ ËÒÛ WỐ/T ÒÞ VÁQ ĐỂU VP Ò ỦÁ T QUÙ QU ÞÁÔ Ü QY ĐÔ ĐỂ X

M9 @@CK" '665 HH@9'@CGGF9 DCFHz75 H5 GHFCD< =7'CB@WL

ŠOD ČÁFËVIÞOVÁJØÁŠUÙÙK

ŠOD ČÁGĖ ÁÖO OVÁT ÕÜ ÙÁŠU ĈOEVOU ÞK ′

ŠOÞ ÒÁHËPUY ÁÐÛWOÚT ÒÞVÁY OÐÚÁÖÒÙVÜUŸÒÖK ŠOÞÒÁ ËÚU ÔÁÔOEŠŠÙOÕ ÞÉAZÜ ÒÛ WOÞÔŸK ´ ŠODOÁ EÖVŐÁJØÁÖÖÙVÜWÔVOJÞK ´´´

ŠOD ÒÂ ËĐUT ÒP ÔŠOS/WÜ ÒÉÓWT Ú ÒÜÁNK ′ OEŽÁÓÞÖÁQYÓT ÙÁÖÒÙVÜUŸÒÖK ′ ÓÈÀÓÞÖÁQYÒT ÙÁÖŒT ŒŨÔÖÊÐÙVQT ŒVÒÖÁÜVÖK

ÔĖJÒÔU X ÒÜ ŸÁĐÁÒ X ŒÔÁÙ WÚ ÚU Ü VÁ JÌ ÒÛ WŒJÒÖK ´´´ @B9'+!I H7!F9D95H'@B9'*'5G'B99898

CIH5: 9'. 'f7' CAG97' 7' CADFCA = G9' F9DCFHL

ŠOD ÒÆËVÞOVK

ŠOD OÁGEÖVŐK ŠODO ČÁHE ÁY OÙK

ŠODOÁ EDEZZOÔVOÖÁSOŸK ′ ŠODOÁ EÔUÞØÖJT ÁÙWÓT OÙÙOUÞÁ/UÁÙGK LINE 3- CL III

LINE 10-COMMENTS:

FOOD 1X DOS ABOVE UBL

3x DOS O/H

3x DOS O/H

2x UBL O/H

100% UBL O/H

100% UBL O/H

ICE 100% 1x DOS

CL II

CL IV

CL V

CL VIII

CL I WATER ALL CONTAINERS 100% FULL

BULK VEHICLES, CONTAINERS 100%

LINE 7-REMARKS:

LOGISTICS REPORTING

B. WATER (GAL):_____

C. ICE (LBS): _____

A. BULK (GAL):_____

LINE 2-CL II (ITEM/NSN, QTY)______

B. POL (TYPE, QTY):

LINE 4- CL IV (ITEM/ NSN, QTY):

LINE 6-CL VI (ITEM/ NSN, QTY):______ LINE 7-CL VII (ITEM/ NSN, QTY):_____

LINE 8- CL VIII (ITEM/ NSN, QTY):

AMBER

SOLDIER / VEHICLE LOADS FULL

UTILIZING UBL

< 75% 1x DOS

1x DOS O/H

1x DOS O/H

YELLOW 6 (LRP SCHEDULE)

1x UBL IN USE

< 75% UBL IN USE

< 75% UBL IN USE

SOLDIER / VEHICLE LOADS < 75%

VEHICLES, CONTAINERS < 75%

0% O/H

< 50% 1x DOS

< 1x DOS O/H

< 1x DOS O/H

< 1x UBL O/H

< 50% UBL O/H

< 50% UBL O/H

SOLDIER / VEHICLE LOADS < 50%

VEHICLES, CONTAINERS < 50%

2X MEALS O/H ABOVE UBL

VEHICLES, CONTAINERS 75%

1x UBL IN USE, 1x UBL O/H

LINE 9- CL IX (ITEM/ NSN, QTY):

75% 1x DOS

2x DOS O/H

2x DOS O/H

75% UBL O/H

LINE 2-LRP DESIGNATIONS: LINE 3-LRP LOCATIONS: ______

LINE 6-CLASSES OF SUPPLY:_____

LINE 4-EFFECTIVE TIMES:_____

LINE 5-PRIORITY:

LINE 1-DTG:

LINE 5-CL V (TYPE/DODIC, QTY):

	Δ	
₹	V.	7
L	2	١

CLIDMITTED TWICE DAILY AND ACKIED FOR

	TELLOW'I (LOGISTICS REPORT): SUBMITTED TWICE DAILY AND AS NEED FOR	
	EMERGENCY RESUPPLY. ALL LINES REPORT O/H AND REQUESTED.	
INI	E 1_CL I	

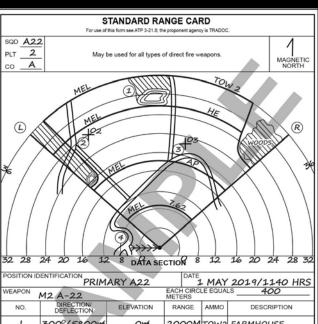
A. MEALS (DOS):_____

LINE 1-CONTACT DTG:
LINE 2-OBSTACLE TYPE:
LINE 3- LOCATION (CENTER/CORNER POINTS):
LINE 4- OBSTACLE DEPTH:
LINE 5- OBSTACLE WIDTH:
LINE 6-ORIENTATION:
LINE 7-BYPASS POSSIBLE (Y/N):
LINE 8-BYPASS LOCATION:
GOLD 2 (OBSTACLE CONSTRUCTION PROGRESS REPORT)
LINE 1-DTG:
LINE 2-EMPLACING UNIT:
LINE 3-LOCATION (CENTER MASS/CORNER POINTS):
LINE 4-COMPOSITION OF OBSTACLE:
LINE 5-COMPLETION STATUS:
LINE 6-ESTIMATE COMPLETION TIME:
LINE 5-DTG OF SELF-DESTRUCTION:
LINE 7-THRU-LANE LOCATION:
LINE 8-OWNING UNIT
GOLD 4 (BREACH REPORT): SUBMITTED AFTER OBSTACLE BREACHED AND LANE ESTABLISHED.
LINE 1-BREACH POINT 8-DIGIT MGRS GRID:
LINE 2-LANE DIRECTION OF TRAVEL (AZIMUTH):
LINE 3-OBSTACLE TYPE BREACHED:
LINE 4-BREACHING UNIT:
LINE 5-BYPASS LANE 8-DIGIT MGRS GRID:
LINE 6-BREACH MARKING:
LINE 7-LANE MANNED OR UNMANNED:

REMARKS

RANGE CARD AND SECTOR SKETCH





300°/5800M 2000MT0W2 **FARMHOUSE** L OWN 105º/920M R +10m 2600MT0W2 R/SIDE WOODLINE 1 6400M +30m 3200MT0W2 RP-HILLTOP 5910M +10m 2700MT0W2 TRP-ABOOZ RJ 60W -10m 1800MT0W2 3 TRP-ABOO2 RJ

4 WRP - RJ AT 13629411, 240° AT 320M

DA FORM 5517, FEB 2016

Range Cards show target areas and terrain features relative to a firing position. Soldiers should continually assess the area and update their range cards. Leaders inspect range cards to ensure they are accurate and integrate them into unit sector sketches. Range cards enable new personnel or units to quickly occupy positions and assume sectors of fire. Range cards include:

- Sector of fire.
- TRPs.
- Dead space.
- Maximum engagement line.
- Weapons Reference point.

Reflective Questions

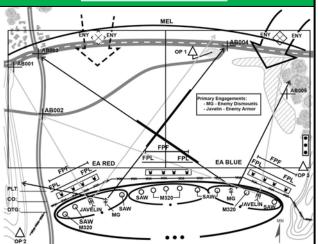
□ Does each fighting position in my unit have an accurate range card?
 □ Can each of my Soldiers brief the relevant limits, terrain, TRPs, and dead space in their sectors?
 □ Do all my Soldiers know their engagement ranges, techniques, and

priorities by weapon system for the next fight?

☐ Have I provided by HHQ with an accurate sector sketch for my unit?

accurate sector sketch for my unit?
☐ Do I understand how my sector fits into my HHQ's security plan?

PLATOON SECTOR SKETCH



DEAD SPACE

CO COMPANY
DTG DATE TIME GROUP
EA ENGAGEMENT AREA
EA MEL MAXIMUM ENGAGEMENT LINE
EA ENGAGEMENT AREA
EM MACHINE GUIN
EM SAW SQUAD AUTOMATIC WEAPON

Leaders make a copy of their sector for the position and for their HHQ. Sector sketches include:

- Main terrain features in the sector and the range to each.
- Primary battle and fighting positions.
- Type of weapon in each position.
- Maximum engagement lines for all weapon systems.
- Engagement area or primary and secondary sectors of fire covering each position.
- Final Protective Line and Primary Direction of Fire for machine guns, shoulder-launched munitions.
- Reference points and TRPs in the assigned sector.
- Observation post locations.
- Dead space.
- Obstacles, including mines.Indirect fire targets.

SQD PLT

RANGE CARD



STANDARD RANGE CARD

For use of this form see ATP 3-21.8; the proponent agency is TRADOC.

May be used for all types of direct fire weapons.

MAGNETIC NORTH CO

DATA SECTION DATE

ELEVATION

AMMO

RANGE

EACH CIRCLE EQUALS WEAPON METERS

DIRECTION/

DEFLECTION

DA FORM 5517, FEB 2016

REMARKS:

POSITION IDENTIFICATION

NO.

PREVIOUS EDITIONS ARE OBSOLETE.

DESCRIPTION

49					NO	TES				\Rightarrow
GRID	SQUAR	ES 1cm	X 1cm,	SCALE					•	

50					NO	ΓES					*
GRID	SQUAF	RES 1cm	X 1cm	SCALE		1	L	<u> </u>	I	I	

51					NO	ΓES				*
GRID	SQUAR	RES 1cm	X 1cm,	SCALE			•	•	-	