## BUILDING THE CO/TM DEFENSE

BUILDING THE CO/TM DEFENSE			
TLP/STEP	REMARKS (Method/Techniques)	TLP/STEP	REMARKS (Method/Techniques)
Receive Mission (WARNORD/FRAGO/ OPORD):  Receive BN/TF WARNORD	* Planning begins at receipt of W/O (tactical, CSS, and personnel).  * TF WARNO must include sufficient detail to begin planning process.		c. Where his rate of advance can be stopped and where his mutually supporting formations and his ability to mass can be disrupted; choke points; reverse slope, etc. d. Terrain that allows you mass dispersion and depth and maximizes your protection, firepower, mobility while
Conduct Initial CDRs Estimate  THREAT EVALUATION  THREAT EVALUATION  THREAT INTEGRATION  WEATHER ANALYSIS  Issue Initial WARNORD #1 Begin PCI/Rehearsal  Initial Movement May Occur	<ol> <li>Consider enemy situation, IPB:         <ul> <li>a. What is the area of operation/interest.</li> <li>b. Enemy force size, type, mission, etc.</li> <li>c. Avenues of Approach (AoAs)</li> </ul> </li> <li>Status of friendly forces.</li> <li>Initial Time Analysis.         <ul> <li>a. Critically analyze TF timeline if provided; solicit information on TF scheduled events if not (ensure TF time questions are answered at TF OPORD if not provided in WARNO).</li> <li>b. Make initial estimate of time for CO/TM; identify time available, critical tasks and priority.</li> <li>* Include necessary details for movement, rehearsals, PCI, security of the CO/TM and recon as applicable or available.</li> <li>* Scouts Screen? Counter Recon?</li> </ul> </li> </ol>		minimizing his.  e. Constructing EA to force enemy to fight in a minimum of two directions at once.  4. Mark TRPs for massing fires on specific AoAs and mobility corridors, and TRPs for controlling platoon fires.  5. Identify and mark proposed obstacle locations, consider obstacles that (turn, fix, disrupt, block);  a. Support the commander's intent.  b. Canalize the enemy into the EA, or keep him there.  c. Disrupt his mutually supporting formations.  d. Slow his rate of advance.  e. Protect the BP.  f. Support the scheme of maneuver.  g. Covered by fire.  h. Tied-in to existing obstacles.
Now (To: AA/BP) Initial Recon Occurs Now	Occupation Plan? OPs?  * CDR, with FSO and Engineer, meets BN  CDR in EA; to see the ground prior to  OPORD.	Template Friendly POSNS	<ul> <li>i. Employed in depth.</li> <li>j. Employed for surprise.</li> <li>1. Identify proposed PLT Battle Positions based upon Terrain and enemy Situation Template and type of EA you are going to</li> </ul>
Attend BN/TF OPORD	* At a minimum the CO/TM CDR MUST receive: R&S Overlay/Matrix OPs Graphics Fire SPT Overlay/Matrix EN Overlay/Matrix CSS Graphics Time Schedule		construct.  2. Identify Platoon/Section and mark it on map.  a. Platoon positions are based on proposed task/purpose for each platoon.  b. Position weapons to provide mutual support within the EA, and on AoAs into adjacent BPs.
2. Issue Warning Order:	*Issue CO/TM WARNORD #2.		c. Position platoons in depth to hit the
3. Make a Tentative Plan Conduct Estimate Template the EA (Based on MAP Recon)	1. Conduct Estimate.  a. Mission Analysis b. Analyze Situation and COAs c. Analyze COAs (wargame) d. Compare COAs e. Decide  2. Mark BN/TF TRPs (on map). 3. Decide where to kill the enemy; consider: a. Where he wants to go, will go and can go. b. Asset integration, (M1, M2, Dragon, small arms).	Develop Initial CO/TM Fire Plan	enemy formations; depth is built using terrain in relation to the EA and the enemy. d. Avoid positioning soldiers and weapons directly in the path of the enemy attack. 3. Identify CO/TM FO positions. Consider TF target responsibilities. 1. Consider IPB: a. How the enemy wants to attack his formation, speed, AoAs, etc. b. What will you see first, where? c. Integrate with terrain and weather. d. Plan for battle field obscuration.

REMARKS (Method/Techniques)
Is there a TF plan; are there TF control basures, EAs, TRPs, CFLs max/min gagement lines, etc.?  Where do you want to kill the enemy; ere is your EA, max/min engagement line, .?  Integrate direct fires, indirect fires, and stacles into CO/TM Fire Plan.  When do you want to kill the enemy; how I you initiate/shift fires?  a. Event (trigger lines)  b. On command (radio or signal)  c. Timed (consider relay, shift, MVT time)  How will you control fires to focus and stribute fires laterally and in depth? (SH 7-,USAIS)  a. Dividing the EA  b. Sectors  c. Closest TRP  d. Target Array e. Fire Patterns f. Target Array Quadrants g. Quadrants How will you integrate indirect fire; where, len?  a. Use of mortars versus artillery. b. Nominate targets if existing targets do not support scheme of maneuver. c. Prioritize targets. d. Determine triggers for targets. e. identify primary/alternate observers for target responsibilities. How will you maximize the principles of ect fire? (SH 7-45, USAIS) a. Mass b. Leaders control fires c. Understood by all d. Focus e. Distribute f. Rehearsals Designate techniques of engagement: a. Simultaneous b. Alternating c. Observed Designate patterns of fire: a. Cross fire b. Frontal c. Depth

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TLP/STEP	REMARKS (Method/Techniques)	
4. Initiate Movement:	* This step is initiated whenever necessary to meet requirements in the time line. May have been completed in Step 1.	
5. Reconnoiter: Conduct Leaders Recon	* Leaders must get out on the ground to verify the tentative plan, confirm or deny assumptions made during map recon, and to get the feel of the ground; they must take everything with them they need to build the EA, i.e., Pickets (2 per TRP, indirect fire target, obstacle, and weapon position), Engineer tape for marking vehicle positions and obstacles, binoculars, weapons systems, night sights, Rock Drill Kit.  * Possible techniques for recon are: - CDR, PLs, FIST EN PLT LDR, w/1 CBT VEH per + 1 WHL + Workers.	
	<ul> <li>CDR, PLs, SLs w/3 M1/M2s + 1 WHL</li> <li>CDR (PLs?) w/ M998/M113 and Security Force</li> <li>Meet with leaders in the EA.</li> <li>a. Explain to PLs:</li> <li>The CO/TM and TF area of operation/interest (Battle Space).</li> <li>Where the enemy will enter the CO/TM Battle Space.</li> <li>Enemy force size/speed and what will come first.</li> <li>CO/TM task purpose in TF scheme (what effect does the TF CDR want from the CO/TM fires).</li> </ul>	
	<ul> <li>Proposed task/purpose for each platoon.</li> <li>Tentative CO/TM plan.</li> <li>Walk/drive the EA and area of responsibility; If time permits, drive the terrain from the enemy point of view.</li> <li>Get the feel of the terrain.</li> <li>Identify actual enemy avenues of approach (for mounted, dismounted, and recon elements).</li> </ul>	
<b>6. Complete Plan:</b> Build the Engagement Area	1. Decide when to kill the enemy; consider: a. Where he wants to go, will go and can go. b. Where his rate of advance can be stopped, and where his mutually supporting formations and his ability to mass (effects) can be disrupted; Choke Points, reverse slope, etc.	

### TLP/STEP REMARKS (Method/Techniques) c. Terrain that allows you mass, dispers and depth and maximizes your protection firepower, mobility while minimizing his. 2. Physically mark TRPs for massing fire TRP Techniques on specific AoAs and mobility corridors, Existing features on damaged TRPs for controlling platoon fires. equipm ent 3. Identify and mark proposed obstacle Thermal Blankets/Heating Pad locations, consider obstacles that (turn, fi No power thermal tape on traffic disrupt, block): a Support the commander's intent. Heaters b. Canalize the enemy into the EA, or ke Thermal blanket/doth on plywood Ammo can, sand, diesel, charcoal him there c. Disrupt his mutually supporting formations d. Slow his rate of advance. e Protect the BP. f. Support the scheme of maneuver g. Covered by fire h. Tied-in to existing obstacles. i. Employed in depth. Employed for surprise. 4. Obstacles, TRPs, targets, and trigge are physically marked during this phase, engineer stakes with VS17 panels or larg wood panels are useful for this purpose. a. Marking should be IAW unit SOP. should be clearly visible from propose weapons locations so weapons rang and ability to hit TRPs and obstacles the EA can be verified during weapon b. Obstacles should be marked from begin point to end point; engineer tape. 5. Force enemy to fight in a minimum of directions at once. Select Friendly Position 1. Identify the proposed battle position fr the enemy side 2. Move to the proposed battle position adjust the BP so TRPs, targets and trigge can be seen and ranged by weapons. 3. Identify each weapon position and m its location on the ground. (Remember to consider Posns for dismounts.) a. Platoon positions are based on th proposed task/purpose for each platoon. b. Weapons are positioned to hit the EA TRPs, and obstacles, which should be v from the BP if properly marked. Positions should be selected using binoculars at ground level to verify that the weapons si will be able to see the EA and TRPs whe dug in

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ere io n	TLP/STEP	REMARKS (Method/Techniques)	TLP/STEP	REMARKS
ersion :ion.	·	c. Position weapons to provide mutual		(Method/Techniques)  6. How will you control fires to focus and
		· · · · · ·		•
S. Finan		support within the engagement area, and on		distribute fires laterally and in depth?
fires		AoAs into adjacent BPs.		a. Dividing the EA
s, and		d. Position weapons in depth to hit the		b. Sectors
		enemy from the flanks or rear throughout his		c Closest TRP
le		formations; depth is built using terrain in		d. Target Array
ı, fix,		relation to the EA and enemy, not using		e. Fire Patterns
		cookie cutter solutions like the lazy W or		f. Target Array Quadrants
nt.		diamond positions. Consider WPN		g. Quadrants
rkeep		capabilities!		<ul> <li>h. Engagement priorities, weapon</li> </ul>
		e. Position FIST, FOs, and OPs to		priorities
		observe indirect fire targets/triggers. Ensure		i. Volley fire
		FSO makes TAC FIRE Commo Check.		7. How will you integrate indirect fire; where
		f. Consider natural cover and		when?
		concealment and routes into and out of the		a. Use of mortars versus artillery.
ver.		position.		b. Plan targets forward of the BP, on it
		g. Avoid positioning soldiers and		and behind it. Ensure that indirect fires are
		weapons directly in the path of the enemy		integrated into the CO/TM fire plan.
		· · · · · · · · · · · · · · · · · · ·		
		attack		c. Confirm primary/alternate observers
		h. Have you positioned the engineers?		can see target/trigger from PRIM/ALT/SUP
gers		i. Digging survivability positions may		positions.
se,		begin. (MTETT-CDRs Decision.)		d. Adjust required targets (FPF, priority
arge		j. Weapons locations should be		targets, etc.).
e.		selected during daylight; locations are		e. Determine triggers targets.
OP, but		marked IAW unit SOP, marking should be		<ol><li>How will you maximize the principles of</li></ol>
osed		exact location and orientation; pickets with		direct fire? (SH 7-45, USAIS)
nge		engineer tape are ideal for this purpose.	$\sim$	a. Mass
es in		k. The commander may allow the PLs to	Cover all targets	<ul> <li>b. Leaders control fires</li> </ul>
on		pick positions, or may assist them based on	Cover all rargets     Avoid overkill	c. Understood by all
		available time	• Fire first	d. Focus
om		<ol> <li>If subordinate leaders are present</li> </ol>	Maximize weapon capabilities	e Distribute
e.		during recon, they can begin making range	Most dangerous first	f. Rehearsals
of two		cards and sector sketches.	Staff off	Designate technique of engagement:
	Confirm Initial CO/TM Fire Plan	1. Consider IPB:	Suppression vesus destruction (linked directly to	a Simultaneous
		a. How the enemy wants to attack, his	the task purpose from higher	b. Alternating
n from		formations, speed, AoAs, etc.	headquarters.)	c. Observed
11 110111		b. What will you see first, where?	Prevent fraticide	10. Designate patterns of fire:
n and				•
on and		<ul><li>c. Integrate with terrain and weather.</li><li>d. Plan for battle field obscuration.</li></ul>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ggers				b. Frontal
ma mul.		2. Is there a TF plan; are there TF control		c Depth
mark		measures, EAs, TRPs, CFLs, max		11. Where will CDR be at to CONTROL fires
rto		engagement lines, etc.?	-	Back up plan for initiation? Rehearse both!
		<ol><li>Where do you want to kill the enemy;</li></ol>	7. Issue the OPORD	Overlook Engagement Area
the		where is your EA, max engagement line,		
on.		etc.?	8. Supervise:	
EA,		<ol><li>Ensure integration of direct fires, indirect</li></ol>	Occupy the Battle Position/Site Weapons	1. Link up with CO/TM brought up under
visible		fires, and obstacles.		control of 1SG/XO.
ons		<ol><li>When do you want to kill the enemy; how</li></ol>		<ul> <li>a. Brief subordinate leaders on basic</li> </ul>
		will you initiate/shift fires?		plan.
sights		a. Event (trigger lines)		<ul> <li>b. Execute CO/TM Security Plan.</li> </ul>
hen		b. On command (radio or signal)		2. Move vehicles/weapons into designated
		c. Timed (consider relay, shift, MVT		positions.
		· · · · · · · · · · · · · · · · · · ·		•
		time)		7

	REMARKS	TLP/STEP	REMARKS
TLP/STEP			(Method/Techniques)
	(Method/Techniques)		* Rehearse closing of lanes and engineer
	<ol><li>Verify using weapons sites that they can</li></ol>		regress routes.
	hit intended areas. Technique - lay down		
	simulating. You are in your completed vehicle	Finalize CO/TM Fire Plan	<ul> <li>* Adjust based on the EA Rehearsal.</li> </ul>
	position.	Prepare Postions	* 5
	4. Drive EA while gunners/SLs/PLs make	$\sim$	* Be prepared for dozers/SEEs to arrive at
	range cards and sector sketches.	Dozer Control Techniques	any time.
	<ol><li>Identify dead space; cover with indirect fire.</li></ol>	•CINC Dozer - CSM?	* Engure there was plan for centrelling
	6. Coordinate with adjacent units and	EN PLT SGT?	* Ensure thorough plan for controlling blade assets and eliminating down time,
	confirm or deny ability to tie in and have	LNO?	establish responsibility for controlling
	overlapping fires.	•Remember Time	these assets and a time schedule.
	7. Identify and mark trigger lines (same		/ tilese assets and a tille schedule.
	method as TRPs).		* Ensure prior to digging that weapons
	Prepare Range Cards and Sector		positions are verified at ground level,
	Sketches (3 each). Master Gunner inspects		(use binoculars in the prone position).
	Range Cards and collects. Platoon Leaders		(accomodatato in the prome postition)
	prepare Sector Sketches for distribution to	Update OPORD with FRAGO	* Every 3-5 hours in different parts of the
	CO/TM and Task Force	r	BP to supervise, and to let CO/TM
range CSS	<ul> <li>Coordinate with CTCP for CSS</li> </ul>		leaders see each area
_	requirements:		
	LOGPAC, prestock, barrier materials,		<ol> <li>PLs brief commander on standard areas</li> </ol>
	additional support, etc. (Ongoing; begins		during each meeting:
	at receipt of mission.)		a Maintenance status
ehearsal of Engagement Area	<ul> <li>Rehearse fire plan (direct and indirect).</li> </ul>		b. Personnel status.
	* Purpose is to ensure every leader and		<ul> <li>c. Progress of fighting position</li> </ul>
	soldier understands the plan, and can hit		completion
	intended areas with direct fire.		d. Progress of obstacle construction.
	* Controlled by the commander over the		e. Any problems or required support.
	radio from his position in the BP; each		2. CDR briefs the following areas:
	soldier and member of the chain of command position themselves where		a. Changes to the plan.
	they plan to fight the battle and talk to the		b. Updates to the enemy situation.
	commander over the radio net or land		<ul> <li>c. Updates to the CO/TM and TF timeline.</li> </ul>
	line.		3. FIST, XO, 1SG, Medics, Maintenance TM
	* Conducted normally by the XO with		Chief, ADA and Engineers (as applicable)
	company trains vehicles, driving through		brief changes and updates to the basic
	each part of the EA and on each AoA;		OPORD.
	CO/TM and platoons practice issuing fire		51 51 B
	commands and ensure that the CO/TM	Continued Prep/Rehearsals	
	can mass at least 2/3s of its fire in each		
	part of the EA, and illustrating how		
	obstacles and indirect fires are integrated		
	with direct fires.		
	<ul> <li>Rehearse displacement within the battle</li> </ul>		
	position, and time moves into new		
	positions. (Worse case - MOPP IV, Night)		
	<ul> <li>FIST and FOs verify and identify trigger</li> </ul>		
	lines for indirect fires to the CO/TM and		

lines for indirect fires to the CO/TM and timing when the fires should impact. \* Rehearsal is conducted using the crawl, walk, run mode, ending with the XO moving through the EA at the doctrinal

rate of march for the enemy

## **ENGAGEMENT AREA MATH SCENARIO**

- in the defense
- As an enemy MRB consisting of 66 vehicles enters the engagement area, the 10 BFVs engage at 3,750 meters with TOW, destroying 10 tanks. Three TOWs per vehicle were fired from each BFV. Each BFV destroyed one enemy vehicle and there are 45 vehicles left to be destroyed. One BFV has been destroyed from indirect fire.
- 3. As the enemy enters the 3,000 meter mark, the BFVs continue to engage. Two TOWs have been fired from each BFV with the result of 9 enemy vehicles being destroyed. Four M1s fire 6 rounds each resulting in each M1 destroying 2 enemy vehicles each. A total of 8 enemy vehicles have been destroyed by the tank platoon for a total of 27 enemy vehicles destroyed between 3,000 meters and 2,000 meters mark. One M1 and two BFVs have been destroyed from enemy direct fire. At this time the commander directs that 6 BFVs switch to 25mm
- 4. Between 2,000 meters and 1,000 meters two BFVs engage, firing 2 TOWs each. Each BFV destroys 1 vehicle. Three M1s fire 5 rounds each destroying 2 vehicles for a total of 6 vehicles destroyed. The five remaining BFVs each engage 5 enemy vehicles with 25mm, each destroying 3 enemy vehicles for a total of 16 enemy vehicles destroyed. Total vehicles destroyed by the CO/TM between 2,000 meters and 1,000 meters is 23. Fifty of
- 5. In the area less than 1,000 meters from the CO/TM defensive positions, the remaining forces (3 M1s, 7 BFVs, 8 Dragons) have the potential to destroy the remainder of the first

- 1. This example portrays a mechanized infantry team consisting of 10 BFVs and 4 M1s
- the 55 enemy vehicles have been destroyed.
- MRB. The CO/TM has the potential to destroy 49 vehicles from the second echelon MRB.

# **INFANTRY LEADER'S REFERENCE CARD FOR BUILDING THE COMPANY TEAM FOR DEFENSE**

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